



**FLORIDA INTERNATIONAL UNIVERSITY
BOARD OF TRUSTEES
ACADEMIC POLICY AND STUDENT AFFAIRS COMMITTEE**

FIU, Modesto A. Maidique Campus, Graham Center Ballrooms

**Thursday, November 20, 2025
11:00 AM**

or

Upon Adjournment of Previous Meeting

Chair: Dean C. Colson

Vice Chair: Alberto R. Taño

Members: Noël C. Barengo, Francesca Casanova, George Heisel, Alexander M. Peraza

AGENDA

1. **Call to Order and Chair's Remarks** Dean C. Colson
2. **Approval of Minutes** Dean C. Colson
3. **Action Item**
 - AP1. **Tenure as a Condition of Employment Nominations** Elizabeth M. Bejar
4. **Information and Discussion Items: No Action Required**
 - 4.1 **Research Update** Andres G. Gil
 - 4.2 **Student Government Updates** Francesca Casanova
 - 4.3 **Faculty Senate Updates** Noël C. Barengo
5. **Reports: For Information Only**
 - 5.1 **Academic Affairs Regular Reports**
 - Academic and Student Affairs
 - Faculty Senate
 - Florida International University and Baptist Health South Florida Collaboration
 - Information Technology
 - Research and Economic Development/ University Graduate School
 - 5.2 **Graduate Medical Education Program Annual Institutional Review**

6. New Business

Dean C. Colson

7. Concluding Remarks and Adjournment

Dean C. Colson

Meeting Book - 11.20.25 - Academic Policy and Student Affairs Committee Meeting

1. Call to Order and Chair's Remarks

Dean C. Colson

2. Approval of Minutes

Dean C. Colson

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3. Action Item

AP1. Tenure as a Condition of Employment Nominations

Elizabeth M. Bejar

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4. Information and Discussion Items: No Action Required

4.1 Research Update

Andres G. Gil

4.2 Student Government Updates

Francesca Casanova

4.3 Faculty Senate Updates

Noël C. Barengo

5. Reports: For Information Only

5.1 Academic Affairs Regular Reports 89

5.2 Graduate Medical Education Program Annual Institutional Review 96

6. New Business

Dean C. Colson

7. Concluding Remarks and Adjournment

Dean C. Colson

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November 20, 2025

Subject: Approval of Minutes of Meeting held September 18, 2025

Proposed Committee Action:

Approval of Minutes of the Academic Policy and Student Affairs Committee meeting held on September 18, 2025.

Background Information:

Committee members will review and approve the Minutes of the Academic Policy and Student Affairs Committee meeting held on September 18, 2025.

Supporting Documentation: Minutes: Academic Policy and Student Affairs Committee meeting, September 18, 2025

Facilitator/Presenter: Dean C. Colson, *Chair, Academic Policy and Student Affairs Committee*

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Academic Policy and Student Affairs Committee
September 18, 2025
FIU, Modesto A. Maidique Campus, Graham Center Ballrooms

MINUTES

1. Call to Order and Chair's Remarks

The Florida International University Board of Trustees' Academic Policy and Student Affairs Committee meeting was called to order by Committee Chair Dean C. Colson on Thursday, September 18, 2025, at 11:33 AM.

General Counsel Carlos B. Castillo conducted roll call of the Academic Policy and Student Affairs Committee members and verified a quorum. Present were Trustees Dean C. Colson, *Committee Chair*; Alberto R. Taño, *Committee Vice Chair*; Noël C. Barengo; Francesca Casanova; George Heisel; and Alexander M. Peraza.

The following Board members were also in attendance: Trustees Carlos A. Duarte, Board Chair; Alan Gonzalez; Jesus Lebeña; Yaffa Popack; Marc D. Sarnoff, Board Vice Chair; and Fred Voccola.

Provost, Executive Vice President, and Chief Operating Officer, Elizabeth M. Bejar provided updates related to Florida International University being recognized in the book *Dream School: Finding the College That's Right for You* by Jeffery Selingo; recent faculty accomplishments highlighting FIU's impact in research, teaching, and global engagement; the launch of the FIU First Amendment Initiative and Combating Antisemitism Initiative led by the Office of the Provost; the fall 2025 first-time in college cohort profile with an average GPA of 4.27 and average SAT score of 1292; and internship week and the fall Career Fair.

2. Approval of Minutes

Committee Chair Colson asked if there were any changes or corrections to the minutes of the Academic Policy and Student Affairs Committee meeting held on June 12, 2025. Hearing none, a motion was made and unanimously passed to approve the minutes of the Academic Policy and Student Affairs Committee meeting held on June 12, 2025.

3. Action Items

AP1. Tenure as a Condition of Employment Nomination

Committee Chair Colson commented on the Tenure as a Condition of Employment (TACOE) process. Provost Bejar commented on the TACOE candidate: Dr. Xavier Comas, who will be joining the Department of Earth and Environment in the College of Arts, Sciences and Education and is recommended for hire at the rank of Professor.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend that the FIU Board of Trustees approve of the candidate for Tenure as a Condition of Employment as specified in the Board materials.

AP2. Textbook and Instructional Materials Affordability Annual Report

Dr. Heather Russell, Vice Provost for Faculty Leadership and Success, presented the 2024-25 Textbook and Instructional Materials Affordability and Transparency annual report for Committee review. Vice Provost Russell stated that the University is in compliance, with 97% of textbooks adopted in fall 2024 and 95% in spring 2025, achieving the 95% threshold. She explained that all general education course syllabi are publicly available through the Simple Syllabus platform. She also noted that FIU's required and recommended textbooks and instructional materials are available via the University's Textbook and Instructional Materials search engine. Vice Provost Russell mentioned the Panther Book Pack Program through the partnership with Barnes & Noble, noting that around 10% fewer students are opting out each year since the program's inception. She noted collaborative approaches with FIU Enrollment Services, FIU Law, the Center for the Advancement of Teaching, and FIU Libraries.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the Florida International University Board of Trustees approval of the Textbook and Instructional Materials Affordability Annual Report.

AP3. Proposed Amendment to Regulation FIU-105 Sexual Harassment (Title IX) and Sexual Misconduct

Associate General Counsel Ryan M. Kelley presented the proposed amendments to Regulation FIU-105 Sexual Harassment (Title IX) and Sexual Misconduct. He detailed that the proposed changes include updating terms and definitions to reflect recent guidance and enforcement; amending the term for employees who must report sexual harassment from "Responsible Employees" to "Mandatory Reporters"; and adding an additional Deputy Title IX Coordinator.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the FIU Board of Trustees approval of the proposed amendment to Regulation FIU-105 Sexual Harassment (Title IX) and Sexual Misconduct.

AP4. Proposed Amendment to Regulation FIU-106 Nondiscrimination, Harassment and Retaliation (Title VII)

Mr. Kelley presented the proposed amendments to Regulation FIU-106 Nondiscrimination, Harassment and Retaliation (Title VII). He described the proposed changes including defining the scope of the Regulation and its application to the University community; including additional internal citations to applicable state and federal law; including additional definitions and clarifications to terms and procedures; and delineating an alternative resolution process.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the FIU Board of Trustees approval of the proposed amendment to Regulation FIU-106 Nondiscrimination, Harassment and Retaliation (Title VII).

AP5. Proposed Amendment to Regulation FIU-116 Educational Sites

Mr. Kelley presented the proposed amendments to Regulation FIU-116 Educational Sites. He explained that the Regulation is being amended to align with changes made to Board of Governors Regulation 8.009. He stated that the Regulation sets forth procedures for the University to establish, reclassify, relocate, and close educational locations; provides procedures for approval related to establishing, reclassifying, relocating, and closing educational locations; defines the types of additional campuses and other classifications; and continues to require the monitoring of enrollment at additional campuses and sites.

A motion was made and unanimously passed that the FIU Board of Trustees Academic Policy and Student Affairs Committee recommend to the FIU Board of Trustees approval of the proposed amendment to Regulation FIU-116 Educational Sites.

4. Information and Discussion Items: No Action Required

4.1 Student Government Updates

Trustee Francesca Casanova mentioned Panthers' First Night, the FIU Football team winning two (2) games at Pitbull Stadium, and the Inaugural FIU Pig Roast Competition. She commented that Student Government Association Chief Justice Noah Fineberg welcomed a delegation of over 50 student leaders from the National Union of Israeli Students in Washington D.C., participated in various tours and meetings, and received a certificate of recognition thanking FIU working to combat antisemitism on campus.

4.2 Faculty Senate Updates

Trustee Noël C. Barengo stated that the Faculty Senate and its Steering Committee have convened twice since the June 12, 2025, FIU Board of Trustees Meetings. He noted that in August, a Special Meeting of the Faculty Senate was held to review and approve revisions to two (2) Graduate School policies. He commented that Mr. David Chatfield was confirmed as the Faculty Senate's Governmental Liaison and Mr. Nathan Dodge was confirmed as Parliamentarian and Sergeant-at-Arms. Trustee Barengo acknowledged that University President Jeanette M. Nuñez attended the first regular Faculty Senate meeting of the fall 2025 semester. He mentioned a joint initiative between Provost Bejar and the Faculty Senate titled "What Does It Mean to Be Faculty in the 21st Century?"; Faculty Convocation on Monday, October 6, 2025; and a Faculty Get-Together on September 18, 2025, at the Biscayne Bay Campus, sponsored by the Chaplin School of Hospitality & Tourism Management.

5. Academic Affairs Regular Reports

There were no questions from the Committee members in terms of the Academic Affairs regular reports included as part of the agenda materials.

6. New Business

No new business was raised.

7. Concluding Remarks and Adjournment

With no other business, Committee Chair Dean C. Colson adjourned the meeting of the Florida International University Board of Trustees Academic Policy and Student Affairs Committee on Thursday, September 18, 2025, at 12:00 PM.



November 20, 2025

Subject: Tenure as a Condition of Employment Nominations

Proposed Action:

Florida International University Board of Trustees approval of two (2) candidates for Tenure as a Condition of Employment (TACOE).

Background Information:

Pursuant to Florida Board of Governors Regulation 1.001(5)(a), each board of trustees shall provide for the establishment of the personnel program for all the employees of the university, including but not limited to tenure.

The TACOE nominees hold tenure at their previous institution and have been selected to receive TACOE based on the caliber of their work.

Supporting Documentation: Tenure as a Condition of Employment Nominees:

- Overview
- Bios
- Curriculum Vitas

Facilitator/Presenter: Elizabeth M. Bejar

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Florida International University
Tenure as a Condition of Employment Nominations - November 2025

Last Name	Name	College	Department	Proposed Rank
Badawy	Abdel-Hameed	College of Engineering and Computing	Knight Foundation School of Computing and Information Sciences	Professor
Martin	Jennifer Lynn	Herbert Wertheim College of Medicine	Cellular and Molecular Medicine	Professor

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Dr. Abdel-Hameed Badawy



Tenure as a Condition of Employment at the Associate Professor rank Knight Foundation School of Computing and Information Sciences College of Engineering and Computing

Dr. Abdel-Hameed Badawy earned his Ph.D. in Computer Engineering from the University of Maryland, College Park, in 2013. He began his academic career as a tenure-track Assistant Professor at Arkansas Tech University before joining the Klipsch School of Electrical and Computer Engineering at New Mexico State University (NMSU) in 2016, where he was promoted to Associate Professor with tenure in 2021.

Dr. Badawy's research spans performance modeling, prediction, monitoring, and evaluation; high-performance computer architectures; hardware security with a focus on IoT devices; the security of machine learning models; and quantum computing. His scholarly contributions include 25 journal articles, 78 refereed conference papers, and 16 workshop and poster presentations. He has secured over \$11.5 million in research funding from agencies such as the NSF, DOD, and DOE, including \$3.4 million as Principal Investigator.

In the classroom, Dr. Badawy has taught 11 distinct courses—4 at Arkansas Tech and 8 at NMSU. He has been active in mentorship, including 2 postdoctoral fellows, 12 Master's students, and 10 undergraduate and high school students. He has successfully graduated 10 Ph.D. students and currently supervises 8 Ph.D. and 6 M.S. candidates.

Dr. Badawy serves as an Associate Editor for *Communication and Computing, Journal of Engineering and Applied Science*, and sits on the editorial boards of *Discover Internet of Things (Discover IoT)* and the *International Journal of Computing and Digital Systems (IJCDS)*. He has contributed to numerous technical program committees and held key leadership roles at NMSU, including Computer Engineering Area Chair, Faculty Senator, and Chair of the Graduate Faculty Council.

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Dr. Jennifer Lynn Martin



**Tenure as a Condition of Employment at the Professor rank
Department of Cellular and Molecular Medicine
León Medical Centers Eminent Scholars Chair, HWCOM
Herbert Wertheim College of Medicine**

Dr. Jennifer Lynn Martin earned her Ph.D. in Clinical Psychology from the Joint Doctoral Program at San Diego State University and the University of California, San Diego in 2002, followed by postdoctoral training in geriatrics at the UCLA Department of Medicine and later as a Research Health Scientist at the VA Greater Los Angeles Healthcare System. In 2017, she was promoted to Associate Director for Clinical and Health Services Research at the VA's Geriatric Research, Education, and Clinical Center (GRECC), and in 2019, she became Professor of Medicine (in residence) at the David Geffen School of Medicine at UCLA.

Dr. Martin is a licensed clinical psychologist and a Diplomate of the American Board of Behavioral Sleep Medicine. Her research portfolio includes over 130 peer-reviewed publications, numerous book chapters, and editorial contributions to leading journals in sleep and geriatric medicine. She has served as Principal Investigator or Co-Investigator on more than 40 federally funded research projects, including NIH R01s, VA Merit Reviews, and Career Development Awards, totaling over \$20 million in direct costs.

She is the Immediate Past President of the American Academy of Sleep Medicine, a founding member of the Society for Behavioral Sleep Medicine and has chaired multiple national committees and task forces. Her work has shaped clinical practice guidelines, policy statements, and educational initiatives that have improved care for older adults and veterans.

Dr. Martin now joins the Department of Cellular and Molecular Medicine as Professor with Tenure and will lead geriatrics initiatives at HWCOM as the León Medical Centers Eminent Scholars Chair. She will also serve as Director of the GRECC at the Miami VA, continuing her commitment to advancing health care for aging populations.

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CONTACT INFORMATION

[Google Scholar](#), [Research Gate](#)

Google Scholar: Citations = 1127, h-index = 18, i10-index = 33

EDUCATION

Ph.D., *Computer Engineering*, University of Maryland (UMD), College Park, MD, USA Dec. 2013
“Locality Transformations and Prediction Techniques for Optimizing Multicore Memory Performance”

Advisor: Prof. Donald Yeung

M.Sc., *Computer Engineering*, University of Maryland, College Park, MD, USA Aug. 2002
“Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”

Advisor: Prof. Donald Yeung

Diploma, *Software Development*, Information Technology Institute (ITI), Egypt July 1997
Ranked among the top 5 trainees out of more than 200.

Graduation Project: “Mobile Aglets (Agent) System”

B.Sc., *Computers & Control concentration*, Mansoura University, Egypt July 1996
Degree conferred with Distinction and Honor. Ranked 2nd on a class of 85 students.

Capstone Project: “Computer-controlled Robot Arm System”

WORK EXPERIENCE

Computer Engineering Area Chair Klipsch School of Electrical & Computer Engineering
New Mexico State University (NMSU), Las Cruces, NM December 2021 – Present

Associate Professor (Tenured) Klipsch School of Electrical & Computer Engineering
New Mexico State University (NMSU), Las Cruces, NM August 2021 – Present

Affiliate Faculty

Los Alamos National Laboratory (LANL), Los Alamos, NM March 2018 – Present
Affiliate Faculty Computer Science Department

Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA June 2020 – Present
Assistant Professor (Tenure-Track) Klipsch School of Electrical & Computer Engineering

New Mexico State University, Las Cruces, NM June 2016 – August 2021
Visiting Faculty Mentor The Information Science & Technology Institute (ISTI)

Los Alamos National Laboratory, Los Alamos, NM Summer (May – August) 2019
Visiting Research Scientist

New Mexico Consortium (NMC), Los Alamos, NM Summer (May – August) 2017, 2018
Lead Research Scientist High-Performance Computing Laboratory (HPCL)

The George Washington University, Washington, DC May 2014 – January 2016
Assistant Professor (Tenure-Track) Electrical Engineering Department

Arkansas Tech University, Russellville, AR Aug. 2013 – May 2016

RESEARCH INTERESTS

Performance Modeling, Prediction, Monitoring, and Evaluation, High-Performance Computer Architectures,
Hardware Security including IoT devices, Security of Machine Learning Models, and Quantum Computing

FUNDED RESEARCH

TOTAL: \$11.5006M (Overall), \$3.4406M (PI), \$8.06M (co-PI/Senior Personnel)

POST-TENURE TOTAL: \$8.8916M (Overall), \$1.8916M (PI), \$7M (co-PI/Senior Personnel)

Pending

(P.4) Lizley Madrigal (PI, NMSU), Abdel-Hameed A. Badawy (co-PI, NMSU), and others , “CC* Storage-Region: RRSNM: Regional Research Storage to Advance CyberInfrastructure of Minority Serving Institutions in New Mexico”, National Science Foundation (NSF), Campus Cyberinfrastructure (CC*), [NSF 24-530](#), October 2024, \$1.4M

- (P.3) Erik Lenhoff (PI, NMSU), Abdel-Hameed A. Badawy (co-PI, NMSU), and others, “Developing a dual power system for electrical weed management”, US Department of Agriculture, National Institute of Food and Agriculture (NIFA), Agriculture and Food Research Initiative (AFRI), [FY24 USDA AFRI RFA](#), October 2024, \$300K
- (P.2) Lizley Madrigal (PI, NMSU), Abdel-Hameed A. Badawy (co-PI, NMSU), and others, “e-NEXT GEN: Equity in Next-Generation Digital Technologies Expansion”, US Department of Commerce, National Telecommunications and Information Administration (NTIA), [NTIA Competitive Grant Program](#), September 2024, \$12M
- (P.1) Huiping Cao (PI), Abdel-Hameed Badawy (Co-PI/Senior Personnel), and others, “REU Site: Artificial Intelligence for Cyber-Physical Systems”, National Science Foundation (NSF), August 2024, \$463K

Current

- (F.16) Abdel-Hameed Badawy (PI), “Performance Models Co-Design Using the Performance Prediction Toolkit for Multicores, Graphics Processing Units, and Heterogeneous Systems”, Los Alamos National Laboratory (LANL), August 2024 – August 2029, \$600K
- (F.15) Abdel-Hameed A. Badawy (PI), Kishwar Ahmed (co-PI, University of Toledo), “CSSI Elements: Multi-GPU and Network Modeling and Simulation in SST”, National Science Foundation (NSF), [NSF 22-632](#), January 2025 – January 2028, \$600K
- (F.14) Jay Misra (Lead PI, NMSU), Abdel-Hameed Badawy (Senior Personnel) and collaborator from NMSU, UNM, NMT, and Navajo Tech, “E-RISE RII: Research Center for Distributed Resilient and Emergent-Intelligence-Based Additive Manufacturing (DREAM)”, National Science Foundation (NSF), EPSCOR E-RISE RII, [NSF23-588](#), August 2024 – August 2028, \$7M
- (F.13) Abdel-Hameed A. Badawy (PI), Mona Y. Elshinawy (co-PI), “Machine Learning vs. Nomograms Techniques for Predicting Auxiliary Lymph Node Metastasis Among Breast Cancer Patients”, [Cowboys for Cancer Research](#)¹, NM, NMC4CR FY2024 Pilot Grant Opportunity, April 2024 – March 2025, \$48K
- (F.12) Abdel-Hameed Badawy (PI, NMSU), Ahmad Patooghy (PI, NC A&T), and Mostafa Said (PI, CSU-Bakersfield), “Collaborative: CISE-MSI: SaTc: Hardware-Agnostic Countermeasures for Malicious Thermal Sensors Attacks”, National Science Foundation (NSF), [NSF-22-518](#), August 2022 – July 2025, \$600K

Ended

- (F.11) Abdel-Hameed Badawy (PI), “Performance Prediction Toolkit: GPGPUs and Shared Memory Systems”, [New Mexico Consortium \(NMC\)](#)², January 2024 – September 2024, ~ \$43.6K
- (F.10) Abdel-Hameed Badawy (PI), “Performance Prediction Toolkit: GPGPUs and Shared Memory Systems”, Los Alamos National Laboratory (LANL), January 2020 – January 2024, ~ \$800K
- (F.9) Huiping Cao (PI), Abdel-Hameed Badawy (Co-PI), and others, “REU Site: BIGData - Big Data Analytics for Cyber-physical Systems”, National Science Foundation (NSF), March 2020 – August 2023, \$405K
- (F.8) Abdel-Hameed Badawy (PI), “ECP Proxy Apps Project: LDMS for GPGPUs”, Sandia National Labs (SNL), April 2019 – September 2022, ~ \$327K
- (F.7) Abdel-Hameed Badawy (PI), “GEM5 Simulator for A64FX with Word Granularity Scratchpad: Part of DOD/DOE Project 38”, Lawrence Berkeley National Laboratory (LBNL), October 2020 – July 2021, \$34K

Above this post-tenure

¹Cowboys for Cancer Research (C4CR) is a 501(c)(3) nonprofit organization that raises money to support cancer research at New Mexico State University and the University of New Mexico. C4CR is New Mexico’s largest cancer fundraiser, and all the money raised stays in the state.

²NMC is a non-profit corporation formed by the research universities in NM to facilitate research in the state of NM, and specifically to increase research collaborations between universities, industry, and LANL.

- (F.6) Abdel-Hameed Badawy (PI), “Performance Prediction Toolkit: GPGPUs and Shared Memory Systems”, New Mexico Consortium (NMC), August 2018 – February 2020, $\sim \$140K$
- (F.5) Paul Furth (PI), Abdel-Hameed Badawy (Co-PI), and Laura Boucheron (Co-PI) “Supervisory Circuit”, Sandia National Labs, September 2017 – September 2019, $\sim \$188K$
- (F.4) Abdel-Hameed Badawy (PI), “EMU Systems benchmarking study: Sparse Computations”, DoD LPS through Booz Allen Hamilton, June 2018 – October 2019, $\sim \$53K$
- (F.3) Abdel-Hameed Badawy (PI), “Validation of LANL’s Performance Prediction Toolkit”, New Mexico Consortium (NMC), funded through a subcontract from the Ultrascale Systems Research Center (USRC), Two fully funded Graduate Research Assistantships at the Klipsch School of ECE under Prof. Badawy’s mentoring including out of state tuition for 38 credits for the two students, August 2017 – May 2018, $\sim \$70K$
- (F.2) Diana Touns Dugas (PI), Abdel-Hameed Badawy (co-PI), Jay Mishra (Co-PI), Brian Ormand (Senior Personnel) “CyberTraining: CDL: Cyber Infrastructure Training and Mentoring (CI-TraM)”, [NSF 17-507](#), August 2017 – August 2020, $\sim \$467K$
- (F.1) Abdel-Hameed Badawy (PI), Jay Misra (Co-PI), “Implementation, Verification, and Testing of the US Army Patented OS Friendly Microprocessor Architecture: A Full System Cycle-Accurate Simulator Verified on an FPGA and a Testing Benchmark Suite”, Army High Performance Computing Research Center (AHPCRC), January 2017 – December 2017, $\sim \$125K$

ADVISING & MENTORING

Postdoctoral Researchers [Two]

1. [Dr. Mostafa Abdelrehim \[Google Scholar Page\]](#), Jan. 2020 to August 2020, First Employment: Assistant Professor of ECE, California State University, Bakersfield. Currently, Senior Engineer, Qualcomm.
2. [Dr. Fazel Sharifi \[RG Profile, Google Scholar Page\]](#), Jan. 2017 to Oct. 2017, First Employment: Assistant Professor, Department of Computer Engineering and Information Technology, Faculty of Electrical and Computer Engineering, Graduate University of Advanced Technology, Kerman, Iran.

Graduated Students [10 PhDs, 12 Masters]

1. [Amin Sarihi \[Google Scholar Page\]](#), M.Sc. Fall 2021, Ph.D. Fall 2024, NMSU. **First Employment:** MIPS, Austin, TX, USA
2. [Shamminuj Aktar \[Google Scholar Page\]](#), M.Sc. Spring 2023, Ph.D. Fall 2024, NMSU. **First Employment:** Postdoctoral Scientist, Los Alamos National Laboratory, CCS-3, Los Alamos, NM, USA
3. [Hamdy Sultan \[Google Scholar Page\]](#), M.Sc. Fall 2024, NMSU
4. [Alexander Acuna](#), M.Sc. Fall 2024, NMSU
5. [Md Omar Farouk \[Google Scholar Page\]](#), M.Sc. Spring 2024, NMSU
6. Nazmus Saqib Rafi, M.Sc. Spring 2024, NMSU
7. [Nazmul Haq Turja](#), M.Sc. Spring 2023, NMSU, **First Employment:** Intel, Folsom, CA, USA
8. [Atanu Barai \[Github, Google Scholar Page\]](#), M.Sc. Spring 2021, Ph.D. Fall 2022, NMSU, **First Employment:** Intel, Folsom, CA, USA. **Current Employment:** Postdoctoral Scientist, Los Alamos National Laboratory, CCS-3, Los Alamos, NM, USA.
9. [Essa Ibrahim](#), Interdisciplinary Doctorate (iDoc) Spring 2022, NMSU [Co-advised with Prof. Jonathan Cook]. **First Employment:** Assistant Professor of Computer Science, Eastern New Mexico University, Portales, NM, USA
10. [Abdelrahman Elkanishy \[News Article, Google Scholar Page\]](#), M.Sc. Spring 2021, Ph.D. Spring 2022, New Mexico State University. **First Employment:** Qualcomm, San Diego, CA, USA. **Current Employment:** Apple Power/Performance Engineer, San Diego, CA, USA.

11. [Yehia Arafa](#) [[Github](#), [Google Scholar Page](#)], M.Sc. Spring 2021, Ph.D. Fall 2021, NMSU. **First Employment:** Qualcomm Research, Research Triangle, NC, USA
12. [Ammar Elwazir](#) [[Github](#), [Google Scholar Page](#)], M.Sc. Fall 2021, NMSU. **First Employment:** AMD, Austin, TX, USA

Above this post-tenure

13. [Po-Chou Su](#), Ph.D., Summer 2020, NMSU. **First Employment:** Qualcomm, Bay Area, CA, USA.
14. [Ali Alshehri](#), Ph.D., Summer 2020, NMSU. **First Employment:** Assistant Professor at Yanbu University College, Yanbu, Saudia Arabia.
15. [Nafiu Siddique](#), Ph.D., Fall 2016, NMSU [Co-advised with Dr. Jeanine Cook]. **First employment:** Tenure-Track Assistant Professor of Engineering, Langston University, Oklahoma. **Currently:** Tenure-Track Assistant Teaching Professor at University of Washington, Tacoma since Fall 2020.
16. [Mohammad Qayum](#), Ph.D., Fall 2016, NMSU [Co-advised with Dr. Jeanine Cook]. **First employment:** visiting assistant Professor at Mankato State University, Mankato, MN. **Currently:** Assistant Professor of Electrical and Computer Engineering, North South University, Bangladesh.

Current Graduate Students

1. [Sean Blanchard](#) [[Google Scholar](#)], Former LANL Scientist, NVIDIA Employee, Comprehensive Fall 2020, Expected Ph.D. Fall 2026, NMSU
2. [Hussien Al-Azzawi](#) [[Google Scholar Page](#)], UNM CARC Administrator, Comprehensive Fall 2019, Expected Ph.D. Fall 2025, NMSU. [Co-advised with Prof. Patrick Bridges of CS@UNM]
3. [Ammar Elwazir](#) [[Github](#), [Google Scholar Page](#)], Qualifier and M.Sc. 2021, Expected Comprehensive 2024, Expected Ph.D. Fall 2025, NMSU
4. [Patrick Silva](#), R&D Computer Scientist, Sandia National Laboratories, Expected M.Sc. Fall 2024, NMSU
5. Nazmus Saqib Rafi, Qualifier Fall 2022, M.Sc. Spring 2024, Comprehensive Expected Spring 2025, Expected Ph.D. 2026, NMSU
6. [Pracheta Harlikar](#), Expected M.Sc. Fall 2024, NMSU
7. [Hamdy Sultan](#) [[Google Scholar Page](#)], M.Sc. Fall 2024, Qualifier Fall 2023, Expected Ph.D. Fall 2025, NMSU
8. [Youssef Aly](#), Expected Ph.D. Fall 2027, NMSU
9. [Abdu Razzak](#) [[Google Scholar Page](#)], Expected M.Sc. Spring 2025, NMSU
10. [Islam Omar](#), Expected M.Sc. Spring 2025, NMSU
11. [Md Omar Farouk](#) [[Google Scholar Page](#)], M.Sc. Spring 2024, Expected Ph.D. Fall 2026, NMSU
12. [Mohamed Elshamy](#) [[Google Scholar Page](#)], Expected Ph.D. Fall 2027, NMSU
13. [Cheik Maiga](#), Embedded Software Engineer, Wabtec Corporation, Cedar Rapids, Iowa, Expected Ph.D. Fall 2027, NMSU
14. [Andres Indacochea](#), Expected MSc. Spring 2025, NMSU
15. [Steven Chan](#), Expected Ph.D. Fall 2027, NMSU

Graduate Mentees & Graduate Committee(s)

1. Huzaifa Karimjee (ECE), PhD Comprehensive, Spring 2024, PhD Defense, Fall 2024 [NMSU Graduate Committee]
2. [Mohammad Al-Tahat](#) (CS) M.Sc. Defense, Fall 2020, PhD Comprehensive, Fall 2024 [NMSU Graduate Committee]
3. Sudip Podder (CS), M.Sc. Defense, Spring 2023 [NMSU Graduate Committee]

4. Z Saifullah (ECE), PhD Comprehensive, Spring 2022, PhD Defense, Fall 2022 [NMSU Graduate Committee]
5. [George Torres](#) (CS), M.Sc. Defense, Fall 2022 [NMSU Graduate Committee]
6. [Aya Elkanishy](#) (ECE), M.Sc. Defense, Summer 2021 [NMSU Graduate Committee]
7. Nada Ibrahim (CS), M.Sc. Defense, Spring 2021 [NMSU Graduate Committee]

Above this post-tenure

8. Kaosiso Aduaka (CS), M.Sc. Defense, Fall 2020 [NMSU Graduate Committee]
9. Essa Imhmed (CS), M.Sc. Defense, Spring 2020 [NMSU Graduate Committee]
10. John Ossorgin (ECE), M.Sc. Defense, Fall 2019 [NMSU Graduate Committee]
11. [Shuai Sun](#), PhD 2019, GWU [Research Mentor]. **Employment:** R&D Optoelectronics Engineer @ Automated Precision, Inc (API) Metrology
12. Abdallaziz Dalloul (ECE), M.Sc. Defense, Spring 2018 [NMSU Graduate Committee]
13. Jesus Gardea Rueda (CS), M.Sc. Defense, Summer 2017 [NMSU Graduate Committee]
14. [Ahmad Anbar](#), PhD 2016, GWU [Research Mentor]. **Employment:** SW Engineer @ Google
15. [Olivier Serres](#), PhD 2015, GWU [Mentor] **Employment:** SW Engineer @ Google
16. [David Newsom](#), PhD 2015, GWU [Research Mentor]. **Employment:** Retired from the World Bank Group. Currently, private contractor and Affiliate Faculty, NMSU.
17. [Gabriel Yessin](#), Master's 2013, GWU. [Research Mentor] **Employment:** Senior SW Engineer @ Huntington Ingalls Industries, Inc.
18. [HamidReza MohammadiBidhendi](#), Master's 2016, Arkansas Tech University [Mentor] **Employment:** Engineer @ Smartrise Engineering, Inc.

Undergraduate Students & High School Students

1. Juan Torres (CS@NMSU), Research Experience for Undergraduates (REU), Summer 2023
2. Abhinit Sundar, Research Experience for Undergraduates (REU), Summer 2022
3. Jerrod Parten (ECE@NMSU), Research Experience for Undergraduates (REU), Summer 2021
4. Yarley Ogaz (ECE and CS @NMSU), Undergraduate Research Assistant, since Summer 2019 – September 2022

Above this post-tenure

5. [George Torres](#) (ECE and CS @NMSU), Undergraduate Research Assistant, Summer and Fall 2019
6. Matthew Bredin (ECE@NMSU) and Cristian Ayub (CS@UTEP), Research Experience for Undergraduates (REU), Summer 2018
7. Ian Goetting (B.Sc. CS@NMSU) and Casey Tran (B.Sc. CS@Humboldt State University), REU Summer 2017
8. Judith Martinez (CpE@UT Rio Grande Valley) and Yair Cabrera (CpE@Polytechnic University of Puerto Rico), REU Summer 2016
9. Sanil Rao (B.Sc. CS@UVA, PhD student @CMU), High school Intern @HPCL@GWU. [Mentor, Research co-Advisor]
10. Hashem Elezebi (Stanford Graduate), High school Intern @HPCL@GWU [Mentor, Research co-Advisor]

NON DISCLOSURE AGREEMENTS

AMD, Intel, Booz Allen Hamilton Inc.

PATENTS

1. Erik A. Lehnhoff, Abdel-Hameed A. Badawy, Paul M. Furth, Leslie Beck, and Paul Neher, “Electrical Weed Management Provisional Patent Application”, Provisional Patent Application, *October 2024*

Above this post-tenure

2. Tarek El-Ghazawi, Volker Sorger, Vikram Narayana, Abdel-Hameed A. Badawy, and Shuai Sun, “The Reconfigurable Optical Coprocessor (ROC)”, [Patent Granted](#), *June 2019*
3. Volker Sorger, Shuai Sun, Vikram Narayana, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “Hybrid Photonic Plasmonic Interconnects (HyPPI) with intrinsic and extrinsic modulation options”, [Patent Granted](#), *April 2019*

PUBLICATIONS

Refereed Books, Edited Books, Book Chapters, and Book Series³

- (B.1) ***Gopinath Chennupati***, Nandu Santhi, Robert Bird, Sunil Thulasidasan, Abdel-Hameed A. Badawy, Satayjayant Misra and Stephan Eidenbenz, “A Scalable Analytical Memory Model for CPU Performance Prediction”, In: S. Jarvis, S. Wright, S. Hammond (eds) High-Performance Computing Systems. Special Issue on the 8th IEEE International Workshop on Performance Modeling, Benchmarking and Simulation of High-Performance Computer Systems (PMBS’17) held in conjunction with the ACM/IEEE Supercomputing 2017 (SC’17), November 2017, Denver, CO, USA. Lecture Notes in Computer Science, vol 10724, 2018. Springer [[PDF from Springer](#)]

Refereed Technical Journals

- (J.25) ***Shamminuj Aktar***, Andreas Bärtschi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “Scalable Experimental Bounds for Entangled Quantum State Fidelities”, in [ACM Transactions on Quantum Computing \(TQC\)](#), [[ISI Impact Factor 3.7](#)]
- (J.24) ***Amin Sarihi***, Ahmad Patooghy, Peter Jamieson, Abdel-Hameed A. Badawy, “Hiding in Plain Sight: Reframing Hardware Trojan Benchmarking as a Hide&Seek Modification”, *To Appear* in [IEEE Embedded Systems Letters](#), October 2024. [[ISI Impact Factor 1.7](#)]
- (J.23) Mostafa A. Arafa, Islam Omar, Karim H. Farhat, Mona Elshinawy, Farrukh Khan, Faisal A. Alkhathami, Alaa Mokhtar, Abdulaziz Althunayan, Danny M. Rabah, Abdel-Hameed A. Badawy; A Comparison of Systematic, Targeted and Combined Biopsy Using Machine Learning for Prediction of Prostate Cancer Risk: A Multi-Center Study. *Appears in* [Medical Principles and Practice](#), Karger, July 2024. DOI, PubMed: 39047698 [[ISI Impact Factor 2.9](#)]
- (J.22) ***Amin Sarihi***, Ahmad Patooghy, Peter Jamieson, Abdel-Hameed A. Badawy, “Trojan Playground: A Reinforcement Learning Framework for Hardware Trojan Insertion and Detection”, *Appears in* [The Journal of Supercomputing](#), Volume 80, pages 14295–14329, Springer, March 2024. DOI. [[ISI Impact Factor 3.3](#)]
- (J.21) Ahmad Patooghy, ***Mahdi Hasanzadeh***, ***Amin Sarihi***, Mostafa Said, and Abdel-Hameed A. Badawy, “Securing Network-on-Chips Against Fault-Injection and Crypto-Analysis Attacks via Stochastic Anonymous Routing”, *Appears* [ACM Journal on Emerging Technologies in Computing Systems \(JETC\)](#), ACM, Volume vv, Issue i, Article No.: n, pp xx–yy, March 2023. DOI. [[ISI Impact Factor 2.2](#)]
- (J.20) ***Sepehr Tabrizchi***, Fazel Sharifi, and Abdel-Hameed A. Badawy, “Energy Efficient Tri-State CNFET Ternary Logic Gates”, *Appears* [International Journal of Nanoscience](#), World Scientific, Volume vv, Issue i, Article No.: n, pp xx–yy, August 2022. DOI. [[ISI Impact Factor 0.9](#)]

³In Post-tenure papers, I changed the way authors are listed. As the advisor, I am listed last and all authors before that are listed by order of contributions except in rare cases. In Pre-tenure papers, the authors are listed in all the papers by relative contribution. The author who most substantially worked on the draft article and the underlying research becomes the first author and is the student or postdoc in most cases. The others are ranked in descending order of contribution. I fully supervised the work with all my students even though I might not be listed as the last author. Students’ and postdocs’ names are boldened and italicized. An asterisk denote an undergraduate student.

- (J.19) **Shamminuj Aktar**, Andreas Bärtschi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “A Divide-and-Conquer Approach to Dicke State Preparation”, *Appears IEEE Transactions on Quantum Engineering (TQE)*, IEEE, Volume 3, Issue I, Article No.: n, pp 1–16, May 2022. DOI. [**Impact Score (IS) 4.41; CiteScore of 8.0, Q1 Journal eight CiteScore categories**]
- (J.18) **Abdelrahman Elkanishy**, Paul M. Furth, **Derrick T. Rivera**, Abdel-Hameed A. Badawy, “Low-Overhead Hardware Supervision for Securing an IoT Bluetooth-Enabled Device: Monitoring Radio Frequency and Supply Voltage”, *Appears ACM Journal on Emerging Technologies in Computing Systems (JETC)*, ACM, Volume 18, Issue 1, Article No.: 6, pp 1–28, January 2022. DOI. [**ISI Impact Factor 2.2**]
- (J.17) **Atanu Barai**, **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “PPT-Multicore: Performance Prediction of OpenMP applications using Reuse Profiles and Analytical Modeling”, *Appears in The Journal of Supercomputing*, Springer, June 2021. DOI. [**ISI Impact Factor 3.3**]
- (J.16) **Amin Sarihi**, Ahmad Patooghy, Ahmad Khalid, Mahdi Hasanzadeh, Mostafa Said, and Abdel-Hameed A. Badawy, “A Survey on the Security of Wired, Wireless, and 3D Network-on-Chips”, *Appears in IEEE Access*, IEEE, vol. 9, pp. 107625–107656, May 2021. DOI. [**ISI Impact Factor 3.9**]
- (J.15) **Amin Sarihi**, Ahmad Patooghy, Mahdi Amininasab, Mohammad Shokrolah Shirazi, and Abdel-Hameed A. Badawy, “Joint security and performance improvement in multilevel shared caches”, *Appears in IET Information Security*, 15: 297–308, April 2021. DOI. [**ISI Impact Factor 1.4**]
- (J.14) **Mostafa Said**, **Amin Sarihi**, Ahmad Patooghy, **Awny M. El-Mohandes**, Abdel-Hameed A. Badawy, and Fayez Gebali, “Novel Flexible Buffering Architectures for 3D-NoCs”, *Appears in Sustainable Computing: Informatics and Systems (SUSCOM)*, Elsevier, March 2021. [**ISI Impact Factor 4.5**]

Above this post-tenure

- (J.13) **Sepher Tabrizchi**, **Atiyeh Panahi**, Fazel Sharifi, Hamid Mahmoodi, and Abdel-Hameed A. Badawy, “Exploring Energy-Efficient Ternary Inexact Multipliers Using CNT Transistors”, *Appears in Electronics*, MDPI, April 2020. MDPI PDF. [**ISI Impact Factor 2.9**]
- (J.12) **Ali Alshehri**, Abdel-Hameed A. Badawy, and Hong Huang, “FQ-AGO: Fuzzy Logic Q-Learning Based Asymmetric Link Aware and Geographic Opportunistic Routing Scheme for MANETs”, *Appears in Electronics*, MDPI, April 2020. MDPI PDF. [**ISI Impact Factor 2.9**]
- (J.11) **Samane Firouzi**, **Sepehr Tabrizchi**, **Fazel Sharifi**, and Abdel-Hameed A. Badawy, “High Performance, Variation Tolerant CNFET Ternary Full Adder: A Process, Voltage, and Temperature Variation Resilient Design”, *Appears in Computers and Electrical Engineering*, Elsevier, April 2019. Elsevier PDF. [**ISI Impact Factor 4.3**]
- (J.10) **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “PPT-GPU: Scalable GPU Performance Modeling”, *Appears in IEEE Computer Architecture Letters*, March 2019. IEEE PDF. [**ISI Impact Factor 2.3**]
- (J.9) **Nafiul A. Siddique**, **Patricia Gruble**, Abdel-Hameed A. Badawy, and Jeanine Cook, “A Performance Study of the Time-Varying Cache Behavior – A Study on APEX, Mantevo, NAS, and PARSEC”, *Appears in The Journal of Supercomputing*, Springer, September 2017. Springer PDF. [**ISI Impact Factor 3.3**]
- (J.8) Abdel-Hameed A. Badawy, and Donald Yeung, “Guiding Locality Optimizations for Graph Computations via Reuse Distance Analysis”, *Appears in IEEE Computer Architecture Letters*, April 2017. IEEE PDF. [**ISI Impact Factor 2.3**]

- (J.7) Vikram Narayana, **Shuai Sun**, Abdel-Hameed A. Badawy, Volker Sorger, and Tarek El-Ghazawi, “MorphoNoC: Exploring the Design Space of a Configurable Hybrid NoC using Nanophotonics”, *Appears in Microprocessors and Microsystems (MICPRO)*, Elsevier, March 2017. [PDF]. [**ISI Impact Factor 2.6**]
- (J.6) Joe Touch, Abdel-Hameed A. Badawy, and Volker Sorger, “Optical Computing”, *Appears in Nanophotonics*, DE GRUYTER, May 2017. [**ISI Impact Factor: 7.5**]
- (J.5) Abdel-Hameed A. Badawy, Gabriel Yessin, Vikram Narayana, Tarek El-Ghazawi, and David Mayhew, “Optimizing Thin Client Caches for Mobile Cloud Computing”, *Appears in Concurrency and Computation: Practice & Experience - A Special Issue from the CloudTech 2015 Conference*, John Wiley and Sons Ltd. Chichester, UK, October 2016. [**ISI Impact Factor 2**]
- (J.4) **Ahmad Anbar**, **Olivier Serres**, **Engin Kayraklioglu**, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “Exploiting Hierarchical Locality in Deep Parallel Architectures”, *Appears in ACM Transactions on Architecture and Code Optimization (TACO)*, June 2016. [**ISI Impact Factor 1.6**]
- (J.3) **David K. Newsom**, Sardar F. Azari, **Olivier Serres**, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “Thread-Level CPU Power Measurement for High Performance Parallel Systems: Impact Analysis of System Control Parameters on HPC Energy Efficiency”, *Appears in the International Journal of Computing and Digital Systems (IJCDS)*, Vol. 6, Elsevier, March 2016. [**ISI Impact Factor: 1.011**]
- (J.2) **Shuai Sun**, Abdel-Hameed A. Badawy, Vikram Narayana, Tarek El-Ghazawi, and Volker Sorger, “HyPPI: Hybrid Photonic Plasmonic Interconnects: A Low Latency, Area and Energy Efficient On-chip Interconnects”, *Appears in the IEEE Photonics Journal*, Volume 7, Issue 6, December 2015. [PDF] [**ISI Impact Factor 2.4**]
- (J.1) Abdel-Hameed A. Badawy, Aneesh Aggrawal, Donald Yeung, and Chau-Wen Tseng, “The Efficacy of Software Prefetching and Locality Optimizations on Future Memory Systems”, *Appears in The Journal of Instruction-Level Parallelism*⁴ (ISSN 1942-9525), Volume 6, Number 7, July 2004. [PDF]

Refereed Scholarship of Teaching and Learning Journals

- (L.4) Karl B. Schmitt, Abdel-Hameed A. Badawy, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “A Failing Grade for Faculty: Comparing Faculty Perception of Student Expectations and Reality”, *Appears in the Journal of Computing Sciences in Colleges*, Volume 30, Issue 3, Pages 99 – 107, Consortium for Computing Sciences in Colleges, USA, January 2015. [ACM]
- (L.3) Karl Schmitt, Elise Larsen, Matthew Miller, Abdel-Hameed A. Badawy, Breanne Robertson, Mara Dougherty, Katie Marie Hrapczynski, Andrea Andrew, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “A survey tool for assessing student expectations early in a semester”, *Appears in the Journal of Microbiology & Biology Education (JMBE)*, Vol. 14, No. 2., December 2013. [**Impact Factor 1.6**] [PMC, ASM, PDF]. This work has been featured at *Faculty Focus*
- (L.2) Karl B. Schmitt, Abdel-Hameed A. Badawy, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “Student Expectations from CS and other STEM Courses: They aren’t Like CS-Majors! or ($CS \neq STEM - CS$)”, *Appears in the Journal of Computing Sciences in Colleges*, Volume 28, Issue 6, Pages 100 – 108, Consortium for Computing Sciences in Colleges. ACM USA. June 2013. [ACM, PDF].
- (L.1) Abdel-Hameed A. Badawy, “Students’ Perception of the Effectiveness of Discussion Boards: What can we get from our students for a freebie point?”, *Appears in the Science and Information Organization (SAI), International Journal of Advanced Computer Science and Applications(IJACSA)*, Volume 3, Issue 9, Pages 136 – 144, October, 2012. [**Impact Factor 0.9**] [arXiv]

⁴JILP is the predecessor journal that ACM TACO came out of. ACM TACO is ISI indexed and has an impact factor of 1.6

Refereed Papers in Symposia & Conferences

- (C.78) **Abrar Hossain**, Abdel-Hameed A. Badawy, Mohammad A. Islam, Tapasya Patki, and Kishwar Ahmed, “HPC Application Parameter Autotuning on Edge Devices: A Bandit Learning Approach”, *To Appear* in proceedings of the [31st IEEE International Conference on High Performance Computing, Data, and Analytics](#) (HiPC’24), December 2024, Bangalore, India.
- (C.77) **Amin Sarihi**, Ahmad Patooghy, Abdel-Hameed A. Badawy, and Peter Jamieson, “The Seeker’s Dilemma: Realistic Formulation and Benchmarking for Hardware Trojan Detection”, *Appears* in proceedings of the [43rd IEEE International Performance Computing and Communications Conference](#) (IPCCC’24), November 2024, Orlando, FL. [**Acceptance Rate: 30.7%; 39 full papers out of 127**]
- (C.76) **Mohamed R. Elshamy, Mehdi Elahi**, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “Cluster-BPI: Efficient Fine-Grain Blind Power Identification for Defending against Hardware Thermal Trojans in Multicore SoCs”, *Appears* in proceedings of the [43rd IEEE International Performance Computing and Communications Conference](#) (IPCCC’24), November 2024, Orlando, FL. [**Acceptance Rate: 30.7%; 39 full papers out of 127**]
- (C.75) **Mohamed R. Elshamy, Mehdi Elahi**, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “Fine-Grained Clustering-based Power Identification for Multicores”, *Appears* in proceedings of the International Green and Sustainable Computing (IGSC’24), co-located with MICRO’2024, November 2024, Austin, TX, USA.
- (C.74) Amin Malekmohammadi, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “WIP: Integrating Cybersecurity Education: Implementation of an Undergraduate Course on Malicious Thermal Sensor Defense”, *To Appear* in proceedings of the 2024 IEEE Frontiers in Education Conference (FIE’24), October 2024, Washington, DC
- (C.73) **Abdur Razzak Rana**, Atanu Barai, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “Static Reuse Profile Estimation for Stencil Applications”, *To Appear* in proceedings of the International Symposium on Memory Systems (MemSys’24), October 2024, Washington, DC. ACM
- (C.72) **Nazmus Sakib**, Tarun Prabhu, Nandakishore Santhi, John Shalf, and Abdel-Hameed A. Badawy, “Comparison of Vectorization Capabilities of Different Compilers for X86 and ARM CPUs”, *Appears* in proceedings of the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
- (C.71) **Mohamed R. Elshamy**, Heba M. Emara, **Mohamed R. Shoaib**, and Abdel-Hameed A. Badawy, “P-YOLOv8: Efficient and Accurate Real-Time Detection of Distracted Driving”, *Appears* in proceedings of the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
- (C.70) **Youssef Aly**, Atanu Barai, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “BB-CVXOPT: Basic Block Execution Count Estimation and Extrapolation using Constrained Convex Optimization”, *Appears* in proceedings of the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
- (C.69) **Shamminuj Aktar**, Andreas Bäertschi, Abdel-Hameed A. Badawy, Diane Oyen, and Stephan Eidenbenz, “Graph Neural Networks for Parameterized Quantum Circuits Expressibility Estimation”, *To Appear* in Proceedings of the 2024 [5th IEEE International Conference on Quantum Computing and Engineering](#) (QCE’24), September 2024, Montréal, Québec, Canada
- (C.68) **Amin Sarihi**, Peter Jamieson, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “TrojanForge: Generating Adversarial Hardware Trojan Examples Using Reinforcement Learning”, *To Appear* in Proceedings of the 6th [ACM/IEEE International Symposium on Machine Learning for CAD](#) (MLCAD’24), September 2024, Snowbird, Utah

- (C.67) **Aimee Hatfield** and Abdel-Hameed A. Badawy, “Moore’s Law: What Comes Next?”, *To Appear* in proceedings of the [2024 World Congress in Computer Science, Computer Engineering, & Applied Computing \(CSCE’24\)](#), July 22-25, 2024; Las Vegas, USA. Springer
- (C.66) Hatim Geli, **Islam Omar**, Mona Y. Elshinawy, and Abdel-Hameed A. Badawy, “Forecasting Drought Impacts Using Machine Learning to Support Mitigation and Adaptation Efforts”, American Geophysical Union Conference (AGU’23), December 2023, San Francisco, CA.
- (C.65) **Hamdy Abdelkhalik***, **Shamminuj Aktar***, **Yehia Arafa**, **Atanu Barai**, Nishant Panda, Gopinath Chennupati, Nandakishore Santhi, Nirmal Prajapati, **Nazmul Haque Turja**, Stephan Eidenbenz, and Abdel-Hameed A. Badawy, “BB-ML: Basic Block Performance Prediction using Machine Learning Techniques”, *To Appear* in Proceedings of the 29th IEEE International Conference on Parallel and Distributed Systems (ICPADS’23), December 2023, Ocean Flower Island, Hainan, China. *Co-first authors. **[Acceptance Rate: 19.44%; 196 full papers out of 1008]**
- (C.64) George Michelogiannakis, **Yehia Arafa**, Brandon Cook, Liang Yuan Dai, Abdel-Hameed A. Badawy, Madeleine Glick, Yuyang Wang, Keren Bergman, and John Shalf, “Efficient Intra-Rack Resource Disaggregation for HPC Using Co-Packaged DWDM Photonics”, *Appears* at the 25th IEEE International Conference on Cluster Computing (CLUSTER’23), November 2023, Santa Fe, NM, USA. **[Acceptance rate: 23.85%, 31 accepted out of 130 submissions]**
- (C.63) **Hamdy Abdelkhalik**, **Yehia Arafa**, Nandakishore Santhi, Nirmal Prajapati, and Abdel-Hameed A. Badawy, “Modeling and Characterizing Shared and Local Memories of the Ampere GPUs”, *To Appear* in proceedings of the International Symposium on Memory Systems (MemSys’23), October 2023, Alexandria, VA. ACM
- (C.62) **Atanu Barai**, Nandakishore Santhi, **Abdur Razzak Rana**, Stephan Eidenbenz, and Abdel-Hameed A. Badawy, “LLVM Static Analysis for Program Characterization and Memory Reuse Profile Estimation”, *To Appear* in proceedings of the International Symposium on Memory Systems (MemSys’23), October 2023, Alexandria, VA. ACM
- (C.61) **Amin Sarihi**, Peter Jamieson, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “Multi-criteria Hardware Trojan Detection: A Reinforcement Learning Approach”, *Appears* in proceedings of the 2023 IEEE 66th International Midwest Symposium on Circuits and Systems (MWSCAS’23), August 2023, Phoenix, AZ, USA.
- (C.60) **Ayatelrahman Elsayed**, Mona Y. Elshinawy, **Nada Ibrahim**, **Randall Woodall**, Abdel-Hameed A. Badawy, and Satish Ranade, “Regression Models for Solar Radiation Prediction”, *To Appear* in proceedings of the [25th International Conference on Artificial Intelligence \(ICAI’23\)](#), July 24-27, 2023; Las Vegas, USA. IEEE
- (C.59) **Shamminuj Aktar**, Andreas Bärtschi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “Scalable Experimental Bounds for Entangled Quantum State Fidelities”, *To Appear* in proceedings of the [20th ACM International Conference on Computing Frontiers \(CF’23\)](#), May 2023, Bologna, Italy. ACM 11 pages. DOI: [ACM DL](#). **[Acceptance Rate: 35%; 24 (19 full/ 5 short) papers out of 69]**.
- (C.58) **Hamdy Abdelkhalik**, **Yehia Arafa**, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “Demystifying the Nvidia Ampere Architecture through Microbenchmarking and Instruction-level Analysis”, *Appears* in proceedings of the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022
- (C.57) **Shamminuj Aktar**, Abdel-Hameed A. Badawy, and Nandakishore Santhi, “Quantum Netlist Compiler (QNC)”, *Appears* in proceedings of the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022
- (C.56) **Essa Imhmed**, Jonathan Cook, and Abdel-Hameed A. Badawy, “Evaluation of a Novel Scratchpad Memory Through Compiler Supported Simulation”, *Appears* in proceedings of the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022

- (C.55) **Amin Sarihi**, Ahmad Patooghy, Peter Jamieson, and Abdel-Hameed A. Badawy, “Hardware Trojan Insertion Using Reinforcement Learning”. *Appears in* proceedings of the Great Lakes Symposium on VLSI 2022 (GLSVLSI’22), June 2022, Irvine, CA, USA, ACM.
- (C.54) Mostafa Abdelrehim, Ahmad Patooghy, Amin Malekmohammadi, and Abdel-Hameed A. Badawy, “BIC: Blind Identification Countermeasure for Malicious Thermal Sensor Attacks in Mobile SoCs”, *Appears in* proceedings of the 23rd International Symposium on Quality Electronic Design (ISQED’22), April 6-8, 2022, California, USA.
- (C.53) **Amin Sarihi**, Ahmad Patooghy, Mahdi Hasanzadeh, Mostafa Abdelrehim, and Abdel-Hameed A. Badawy, “Securing On-Chip Communications: An On-The-Fly Encryption Architecture for SoCs”, *Appears in* proceedings of the 8th Annual Conference on Computational Science & Computational Intelligence (CSCI’21), Dec 15-17, 2021, Las Vegas, NV, USA.
- (C.52) **Yehia Arafa**, Abdel-Hameed A. Badawy, **Ammar ElWazir**, **Atanu Barai**, **Ali Eker**, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Appears in* proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis (SC’21), November 2021, St. Louis, MO, USA. ACM, 14 pages. DOI: [ACM DL](#) [**Acceptance Rate: 25.86%; 98 papers out of 379**]. Granted all three ACM Artifact Evaluation Badges (Available, Functional, and Results Reproduced badges).
- (C.51) **Amin Sarihi**, Ahmad Patooghy, **Mahdi Hasanzadeh**, Mostafa Said, and Abdel-Hameed A. Badawy, “Securing Network-on-Chips via Novel Anonymous Routing”, *Appears in* proceedings of the 2021 15th IEEE/ACM International Symposium on Networks-on-Chip (NOCS’21), October 2021 (Virtual). DOI: [ACM DL](#) [**Acceptance Rate: 22%; (5 full + 7 short)(12) papers out of 22**]
- (C.50) **Ali Eker**, **Yehia Arafa**, Abdel-Hameed A. Badawy, Nandakishore Santhi, Stephan Eidenbenz, and Dmitry Ponomarev, “Load-Aware Dynamic Time Synchronization in Parallel Discrete Event Simulation.”, *Appears In* Proceedings of the 2021 ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS’21), pp. 95-105, May 2021, Suffolk, VA (Virtual).
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- Above this post-tenure**
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- (C.49) **Mostafa Said**, **Amin Sarihi**, Ahmad Patooghy, **Awny M. El-Mohandes**, Abdel-Hameed A. Badawy, and Fayez Gebali, “Novel Flexible Buffering Architectures for 3D-NoCs”, *Appears in* the Eleventh International Green and Sustainable Computing Conference (IGSC’20), October 2020, San Antonio, TX (Virtual). [**Acceptance Rate: 33%; 40 papers out of 132**]
- (C.48) **Atanu Barai**, Gopinath Chennupati, Nandakishore Santhi, Abdel-Hameed A. Badawy, **Yehia Arafa**, and Stephan Eidenbenz, “PPT-SASMM: Scalable Analytical Shared Memory Model - Predicting the Performance of Multicore Caches from a Single-Threaded Execution Trace”, *Appears in* proceedings of the International Symposium on Memory Systems (MemSys’20), October 2020, Washington, DC, USA. ACM, New York, NY, USA, 11 pages.
- (C.47) **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, **Atanu Barai**, Nandakishore Santhi, and Stephan Eidenbenz, “Fast, Accurate, and Scalable Memory Modeling of GPGPUs using Reuse Profiles”, *Appears in* proceedings of the 34th [International Conference on Supercomputing](#) (ICS’20), July 2020, Barcelona, Spain. ACM, New York, NY, USA, 12 pages. DOI: [ACM DL](#). [**Acceptance Rate: 30.3%; 40 papers out of 132**]
- (C.46) **Yehia Arafa**, **Ammar Elwazir**, **Abdelrahman Elkanishy**, **Youssef Aly**, **Ayatelrahman Elsayed**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Stephan Eidenbenz, and Nandakishore Santhi, “Verified Instruction-Level Energy Consumption Measurement for NVIDIA GPUs”, *Appears in* proceedings of the 17th [ACM International Conference on Computing Frontiers](#) (CF’20), May 2020, Catania, Italy. ACM, New York, NY, USA. 11 pages. DOI: [ACM DL](#). [**Acceptance Rate: 32%; 24 papers out of 75**]. Granted ACM Artifact Evaluation Badges (Two badges: Available and Functional).

- (C.45) **Abdelrahman Elkanishy, Derrick T. Rivera**, Paul M. Furth, Abdel-Hameed A. Badawy, **Youssef Aly**, and Christopher P. Michael, “FPGA-Accelerated Decision Tree Classifier for Real-Time Supervision of Bluetooth SoC”, *Appears in proceedings of 2019 International Conference on Reconfigurable Computing and FPGAs (ReConFig’2019)*, December 2019, Cancun, Mexico.
- (C.44) **Abdelrahman Elkanishy**, Abdel-Hameed A. Badawy, Paul M. Furth, Laura E. Boucheron, and Christopher P. Michael, “Machine Learning Bluetooth Profile Operation Verification via Monitoring the Transmission Pattern”, *Appears in proceedings of the 2019 Asilomar Conference on Signals, Systems, and Computers (Asilomar’2019)*, November 2019, Asilomar, CA.
- (C.43) **Yehia Arafa**, Gopinath Chennupati, **Atanu Barai**, Abdel-Hameed A. Badawy, Nandakishore Santhi, and Stephan Eidenbenz, “GPUs Cache Performance Estimation using Reuse Distance Analysis”, *Appears in proceedings of the 38th IEEE International Performance Computing and Communications Conference (IPCCC’19)*, October 2019, London, UK. [**Acceptance Rate: 28.4%; 39 papers out of 137**]
- (C.42) **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “Instructions’ Latencies Characterization for NVIDIA GPGPUs”, *Appears in proceedings of the 2019 IEEE 23rd Annual High Performance Extreme Computing Conference(HPEC’19)*, September 2019, Waltham, MA, USA. [**Best Student Paper Finalist and Best Student Paper Runner-up, 5 out of 70 papers (7.1%)**]
- (C.41) **Abdelrahman Elkanishy, Derrick T. Rivera**, Abdel-Hameed A. Badawy, Paul M. Furth, **Z.M. Saifullah**, and Christopher P. Michael, “An FPGA Decision Tree Classifier to Supervise a Communication SoC”, *Appears in proceedings of the 2019 IEEE 23rd Annual High Performance Extreme Computing Conference(HPEC’19)*, September 2019, Waltham, MA, USA.
- (C.40) **Abdelrahman Elkanishy**, Abdel-Hameed A. Badawy, Paul Furth, Laura Boucheron, and Christopher Michael, “Supervising Communication SoC for Secure Operation Using Machine Learning”, *Appears in proceedings of the 2019 IEEE 62nd International Midwest Symposium on Circuits and Systems (MWSCAS’19)*, August 2019, Dallas, TX, USA. [**Best Student Paper Finalist, (3.3%) 10 out of 302 papers, Acceptance Rate: 302 out of ?? papers**]
- (C.39) Paul Furth, **Anurag Veerabathini, Z.M. Saifullah, Derrick Rivera, Abdelrahman Elkanishy**, Abdel-Hameed A. Badawy, and Christopher Michael, “Supervisory Circuits for Low-Frequency Monitoring of a Communication SoC”, *Appears in proceedings of the 2019 IEEE 62nd International Midwest Symposium on Circuits and Systems (MWSCAS’19)*, August 2019, Dallas, TX, USA. [**Acceptance Rate: 302 out of ?? papers**]
- (C.38)* **Matthew Bredin***, Abdel-Hameed A. Badawy, Janice McMahon, and Shannon Kuntz, “Initial Explorations of Sparse Matrix-Vector Multiplication on EMU’s Migratory Memory Side Processing”, *Appears in proceedings of the 5th National Symposium for NSF REU Research in Data Science, Systems, and Security, held in conjunction with the 2018 IEEE International Conference on Big Data (IEEE Big Data 2018)*, December 2018, Seattle, WA, USA. DOI: [IEEE Xplore](#). [**Acceptance Rate: 28.85%; 40 papers out of 134**]
- (C.37) Abdel-Hameed A. Badawy, **Jesus Gareda**, Yuho Jin, and Johnathan Cook, “3D-PIM NoCs with Multiple Subnetworks: A Performance and Power Evaluation”, *Appears in proceedings of the 37th IEEE International Performance Computing and Communications Conference (IPCCC’18)*, November 2018, Orlando, FL, USA. [**Acceptance Rate: 28.9%; 66 papers out of 228**]
- (C.36) **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “PPT-GPU: Performance Prediction Toolkit for GPUs Identifying the impact of caches: Extended Abstract”, **Invited paper**. *Appears in proceedings of the International Symposium on Memory Systems (MemSys’18)*, October 2018, Washington, DC, USA.
- (C.35) **Yehia Arafa, Atanu Barai**, Abdel-Hameed A. Badawy, and Mai Zheng, “Fault Tolerance Performance Evaluation of Large Scale Distributed Storage Systems: HDFS and Ceph Case Study”, *Appears*

- in proceedings of the 2018 IEEE 22nd Annual High Performance Extreme Computing Conference (HPEC'18), September 2018, Boston, MA, USA
- (C.34) **Yehia Arafa, Atanu Barai**, Mai Zheng, and Abdel-Hameed A. Badawy, "Evaluating the Fault Tolerance Performance of HDFS and Ceph", *Appears* in proceedings of the Practice and Experience on Advanced Research Computing (PEARC'18), July 2018, Pittsburgh, PA, USA. ACM. DOI: [ACM DL](#). [**Acceptance Rate: 68%; 54 papers out of 79**]
 - (C.33) Patrick Jungwirth, Philip Chan, Thomas Barnett, and Abdel-Hameed A. Badawy, "Cyber defense through hardware security", *Appears* in proceedings of SPIE 10652, Disruptive Technologies in Information Sciences, 106520P, May 2018 [[SPIE](#)]
 - (C.32) Abdel-Hameed A. Badawy, and Donald Yeung, "Optimizing Locality in Graph Computations using Reuse Distance Profiles", *Appears* in proceedings of the 2017 IEEE 36th International Performance Computing and Communications Conference (IPCCC'2017), December 2017, San Diego, California, USA. [**Acceptance Rate: 32.73%; 54 papers out of 165**]
 - (C.31) **Kishwar Ahmed**, Jason Liu, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, "A Brief History of HPC Simulation and Future Challenges", **Invited Paper**, *Appears* in proceedings of the Winter Simulation Conference (WSC'17), December 2017, Las Vegas, NV, USA.
 - (C.30)* **Strahinja Trecakov*, Casey Tran***, Abdel-Hameed A. Badawy, Nafiul Siddique, Jaime Acosta, and Satyajayant Misra, "Can Architecture Design Help Eliminate Some Common Vulnerabilities?", *Appears* in proceedings of 2017 IEEE 14th International Conference on Mobile Ad Hoc and Sensor Systems (MASS'17), October 2017, pp. 590-593. DOI: [IEEE Xplore](#). [**Acceptance Rate: 28.85%; 40 papers out of 134**]
 - (C.29) **Nafiul A. Siddique**, and Abdel-Hameed A. Badawy, "SprBlk Cache: Enabling Fault Resilience at Low Voltages", *Appears* in proceedings of the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
 - (C.28) **Nafiul A. Siddique**, Abdel-Hameed A. Badawy, Jeanine Cook, and David Resnick, "LMStr: An On-Chip Shared Hardware Controlled Scratchpad Memory for Multicore Processors", *Appears* in proceedings of the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
 - (C.27) **Mohammad A. Qayum**, Abdel-Hameed A. Badawy, and Jeanine Cook, "DyAdHyTM: A Low Overhead Dynamically Adaptive Hybrid Transactional Memory for Large Graphs", *Appears* in proceedings of the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
 - (C.26) Patrick Jungwirth, and Abdel-Hameed A. Badawy, "Secure Computing Architecture: A Direction for the Future – The OS Friendly Microprocessor Architecture", *Appears* in proceedings of the High Performance Extreme Computing (HPEC'17), September 2017, Boston, MA, USA.
 - (C.25) **Mohammad A. Qayum**, Abdel-Hameed A. Badawy, and Jeanine Cook, "DAdHTM: Dynamically Adaptive Hardware Transactional Memory A Scalability Study", *Appears* in proceedings of the IEEE 17th Scalable Computing (ScalCom'17), August 2017, San Francisco, CA.
 - (C.24) **Nafiul A. Siddique, Patricia Gruble**, Abdel-Hameed A. Badawy, "The Time-Varying Nature of Cache Utilization A Case Study on the Mantevo and Apex Benchmarks ", *Appears* in proceedings of the 14th IEEE Autonomic and Trusted Computing Conference (ATC'17), August 2017, San Francisco, CA.
 - (C.23) **Nafiul A. Siddique**, Abdel-Hameed A. Badawy, Jeanine Cook, and David Resnick, "Local Memory Store (LMStr): A Hardware Controlled Scratchpad for Multicores", *Appears* in proceedings of the 14th IEEE Autonomic and Trusted Computing Conference (ATC'17), August 2017, San Francisco, CA.

- (C.22) **Fazel Sharifi, ZM Saifullah**, and Abdel-Hameed A. Badawy, “Design of Adiabatic MTJ/CMOS Hybrid Circuits”, *Appears in Proceedings of the IEEE 60th International Midwest Symposium on Circuits and Systems (MWSCAS’17)*, August 2017, Boston, MA, USA. [**Acceptance Rate: 63.35%; 318 papers out of 502**]
- (C.21) **Sepehr Tabrizchi, Fazel Sharifi**, Abdel-Hameed A. Badawy, and **ZM Saifullah**, “Enabling Energy-Efficient Ternary Logic Gates using CNFETs”, *Appears in proceedings of the 17th IEEE International Conference on Nanotechnology (IEEE-NANO’17)*, July 2017, Pittsburgh, PA, USA. [**Acceptance Rate: 74.52%; 313 papers out of 420**]
- (C.20) Patrick Jungwirth, Thomas Barnett, Jr, and Abdel-Hameed A. Badawy, “Rootkits and the OS Friendly Microprocessor Architecture”, *Appears in Proceedings of SPIE Defense + Security 2017*, Anaheim, CA, April 2017.
- (C.19) Patrick Jungwirth and Abdel-Hameed A. Badawy, “Model-based Design Introduction: Modeling Game Controllers to Microprocessor Architectures ”, *Appears in proceedings of SPIE 10205, Open Architecture/Open Business Model Net-Centric Systems and Defense Transformation 2017*, 1020506, April 2017, Anaheim, CA, USA. DOI: [SPIE](#).
- (C.18) **Nafiul A. Siddique**, Abdel-Hameed A. Badawy, Jeanine Cook, and David Resnick, “Local Memory Store (LMStr): The Case for Hardware Controlled Scratchpad Memory for General Purpose Processors”, *Appears in proceedings of the 35th IEEE International Performance Computing and Communications Conference (IPCCC’16)*, Las Vegas, NV, December 2016. [**Acceptance Rate: 24.7%; 48 papers out of 194**]
- (C.17) **Nafiul A. Siddique, Patricia Gruble**, Abdel-Hameed A. Badawy, and Jeanine Cook “Cache Utilization as a Metric for Locality: A Case study on the Mantevo Suite”, *Appears in proceedings of the International Conference on Computational Science and Computational Intelligence (CSCI’16)*, Symposium on Parallel and Distributed Computing and Computational Science (CSCI-ISPD’16), Las Vegas, NV, December 2016.
- (C.16) Abdel-Hameed A. Badawy, Mohammad Ibrahim, and Spencer Benson “ Let There Be Hope: Assessing the Implications of Exam Re-Taking on Student Learning Outcomes and Grades of Engineering Students Grounded on Metacognition Awareness Framework”, *Appears in proceedings of the International Conference on Computational Science and Computational Intelligence (CSCI’16)*, Symposium on Education (CSCI-ISED’16), Las Vegas, NV, December 2016.
- (C.15) **Shuai Sun**, Abdel-Hameed A. Badawy, Vikram Narayana, Tarek El-Ghazawi, and Volker Sorger, “ Bit Flow Density (BFD): An Effective Performance FOM for Optical On-chip Interconnects”, *Appears in proceedings of the Conference on Lasers and Electro-Optics (CLEO’16)*, OSA Technical Digest, San Jose, CA, June 2016, (Optical Society of America, 2016), DOI: [OSA](#).
- (C.14) **Shuai Sun**, Abdel-Hameed A. Badawy, Vikram Narayana, Tarek El-Ghazawi, and Volker Sorger, “ Low latency, area, and energy efficient Hybrid Photonic Plasmonic on-chip Interconnects (HyPPI)”, *Appears in Proceedings of SPIE 9753, Optical Interconnects XVI*, 97530A, San Francisco, CA, March 2016. DOI: [SPIE](#).
- (C.13) **David Newsom, Olivier Serres**, Sardar Azari, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “Energy Efficient Job Co-Scheduling for High Performance Parallel Clusters”, *Appears in Proceedings of the 5th IEEE International Conference on Sustainable Computing and Communications (Sustain-Com’15)*, Chengdu, China, December 2015 [**Best Paper Award**]. [**Best Paper Award, Acceptance Rate: 25%; 17 papers out of 68**]
- (C.12) **David Newsom**, Sardar Azari, **Olivier Serres**, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “Measuring the Power and Energy Consumption of Multicore Processors and High Performance Computing Clusters using Big Data Techniques”, *Appears in proceedings of the 5th IEEE International Conference on Sustainable Computing and Communications, (SustainCom’15)*, Chengdu, China, December 2015. [**Acceptance Rate: 25%; 17 papers out of 68**]

- (C.11) **Ahmad Anbar, Olivier Serres, Engin Kayraklioglu, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi**, “PHLAME: Hierarchical Locality Exploitation using the PGAS Model”, *Appears in* proceedings of the 9th IEEE Partitioned Global Address Space Conference (PGAS’15), Washington, DC, September 2015. [[IEEE Xplore](#)]. [**Accepted: 6 regular papers, 3 short papers and 5 poster papers**]
- (C.10) **Ahmad Anbar, Abdel-Hameed A. Badawy, Olivier Serres, and Tarek El-Ghazawi**, “Where Should The Threads Go? Leveraging Hierarchical Data Locality to Solve the Thread Affinity Dilemma”, *Appears in* proceedings of the 20th IEEE International Conference on Parallel and Distributed Systems (ICPADS’2014), Hsinchu, Taiwan, December 2014. [**Acceptance Rate: 30.1%; 97 out of 322 submissions**] [DOI: [IEEE Xplore](#), [PDF](#)]
- (C.9) **Gabriel Yessin, Abdel-Hameed A. Badawy, Vikram Narayana, David Mayhew, and Tarek El-Ghazawi**, “CERE: Cache REcommendation Engine: Efficient Evolutionary Cache Hierarchy Design Space Exploration”, *Appears in* proceedings of the 11th IEEE International Conference on Embedded Software and Systems (ICCESS’14), Paris, France, August 2014. [**Acceptance Rate: 24.7%; 21 out of 85 submissions**] [DOI: [IEEE Xplore](#), [PDF](#)]
- (C.8) **Abdel-Hameed A. Badawy, Karl B. Schmitt, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson**, “Expectations of Computing and other STEM Students: A Comparison for different Class Levels, or (CSE $\neq$ STEM - CSE)|*Course-Level*”, *Appears in* proceedings of the 43rd Annual IEEE Frontiers in Education (FIE’13) Conference, Oklahoma City, Oklahoma, October 2013. DOI: [IEEE Xplore](#), [PDF](#)]
- (C.7) **Mona Y. Elshinawy, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha**, “Using Gray Level Co-occurrence Matrix Features for Normal Mammogram Detection”, *Appears in* proceedings of the Society of Imaging Informatics in Medicine Annual Meeting (SIIM’11), Washington DC, June 2011. [[HTML](#)]
- (C.6) **Mona Y. Elshinawy, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha**, “Effect of Breast Density in Selecting Features for Normal Mammogram Detection”, *Appears in* proceedings of the 8th IEEE International Symposium on Biomedical Imaging (ISBI’11), Chicago, IL, March 30 - April 2, 2011. [**Acceptance Rate: Oral Sessions: 18%; 135 papers and Poster Sessions: 46%; 336 papers**] [[IEEE Xplore](#)].
- (C.5) **Mona Y. Elshinawy, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha**, “Detection of Normal Mammograms based on Breast Tissue Density using GLCM Features”, *Appears in* proceedings of the 8th IEEE EMBS (Engineering in Medicine and Biology Society) and IASTED International Conference on Biomedical Engineering (BioMed’11), Innsbruck, Austria, February 2011.
- (C.4) **Abdel-Hameed A. Badawy, and Michelle Hugue**, “Evaluating Discussion Boards on BlackBoard as a Collaborative Learning Tool: A Students’ Survey and Reflections”, *Appears in* proceedings of the IEEE 2010 International Conference on Education and Management Technology (ICEMT’10), Cairo, Egypt, November 2010. [DOI: [IEEE Xplore](#), [ArXiv](#)].
- (C.3) **Mona Y. Elshinawy, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha**, “One-Class Support Vector Machines vs. Two-class Support Vector Machines for Normal Mammogram Detection”, *Appears in* Proceedings of IEEE Workshop on Applied Imagery Pattern Recognition (AIPR’10), Washington DC, October 13 – 15, 2010. [**Best Student Paper Award**], DOI: [IEEE Xplore](#).
- (C.2) **Mona Y. Elshinawy, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha**, “Using Local Binary Pattern Features for Normal Mammogram Detection”, *Appears in* proceedings of the 23rd IEEE International Symposium on Computer-Based Medical Systems (CBMS’10), Perth, Australia, October 2010. [**Acceptance Rate 45%; 81 papers out of 178 submissions**], DOI: [IEEE Xplore](#).

- (C.1) Abdel-Hameed A. Badawy, Aneesh Aggrawal, Donald Yeung, and Chau-Wen Tseng, “Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”, *Appears* in Proceedings of ACM International Conference on Supercomputing 2001 (ICS’01), Pages 486 – 500, Sorrento, Italy, June 2001. [**Acceptance Rate 34%; 45 out of 133 submissions**], DOI: [ACM DL](#), [PDF](#).

Refereed Workshop Papers

- (W.6) ***Shamminuj Aktar***, Andreas Bärtzchi, Abdel-Hameed A. Badawy, Diane Oyen, and Stephan Eidenbenz, “Predicting Expressibility of Parameterized Quantum Circuits using Graph Neural Network”, *Accepted* for presentation at the 25th Annual Southwest Quantum Information and Technology Workshop (SQuInT’23), Albuquerque, NM, October 2023. ***Workshop has no proceedings.***
- (W.5) ***Shamminuj Aktar***, Andreas Bärtzchi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “State Preparation Fidelities for Dicke States”, *Accepted* for presentation at the 24th Annual Southwest Quantum Information and Technology Workshop (SQuInT’22), Berkeley, CA, October 2022. ***Workshop has no proceedings.***
- (W.4) Position Paper by Abdel-Hameed Badawy, “Utilizing Recent Advances in NLP-ML for HW/SW Code-sign,” *Appears in*; Ang, A. James, Andrew A. Chien, Si Hammond, Adolfo Hoisie, Ian Karlin, Scott Pakin, Scott, John Shalf, Jeffrey S. Vetter, [editors] “Position Papers for the ASCR Workshop on Reimagining Codesign,” 2021, DOI, OSTI, [ASCR CoDesign Workshop](#)

Above this post-tenure

- (W.3) ***Gopinath Chennupati***, Nandu Santhi, Robert Bird, Sunil Thulasidasan, Abdel-Hameed A. Badawy, Satayjayant Misra and Stephan Eidenbenz, “A Scalable Analytical Memory Model for CPU Performance Prediction”, *Appears* in proceedings of the 8th IEEE International Workshop on Performance Modeling, Benchmarking and Simulation of High-Performance Computer Systems (PMBS’17) held in conjunction with the ACM/IEEE Supercomputing 2017 (SC’17), November 2017, Denver, CO, USA. [**Acceptance Rate 34%; 12 out of 34 papers**]
- (W.2) ***Jesus Gareda***, Yuho Jin, Abdel-Hameed A. Badawy, and Johnathan Cook, “Performance Evaluation of 3D NoCs”, *Appears* in proceedings of the 10th [International Workshop on Network on Chip Architectures](#) (NoCArc’17) held in conjunction with the 50th Annual IEEE/ACM International Symposium on Microarchitecture (MICRO’17), October 2017, Boston, USA. [**Acceptance Rate: 30%; 6 out of 20 submissions**]
- (W.1) ***Mona Y. Elshinawy***, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha, “Screening-out Normal Mammograms using Breast Density Information”, [Abstract] *Appears* in proceedings of the 8th Era of Hope Workshop, Department of Defense (DoD) Breast Cancer Research Program (BCRP’11), Paper No. BC004067 – 3386, Poster P17 – 7, Orlando, FL, August 2011.

Refereed Poster Papers

- (P.11) ***Islam Omar***, Whit Schonbein, Abdel-Hameed A. Badawy, “Machine Learning Application for Smart Network Traffic Prediction”, *Poster* presented at the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
- (P.10) ***Shamminuj Aktar***, Andreas Bärtzchi, Abdel-Hameed A. Badawy, Diane Oyen, and Stephan Eidenbenz, “Predicting Expressibility of Parameterized Quantum Circuits using Graph Neural Network”, *Appears* in the IEEE International Conference on Quantum Computing and Engineering (QCE’23), Bellevue, Washington, USA, September 2023.
- (P.9) ***Amin Sarihi***, Ahmad Patooghy, Peter Jamieson, and Abdel-Hameed A. Badawy, “Demands for Open-Source Hardware Trojan Detection Tools: An RL Approach”. *Poster* presented at the Design Automation Conference (DAC’23), June 6–8, 2023, Irvine, CA, USA, ACM.

- (P.8) **Amin Sarihi**, Michael Schoenfelder, and Abdel-Hameed A. Badawy, “Performance Evaluation of an Out-of-Order RISC-V CPU: A SPEC INT 2017 Study”, *Poster* appears & presented at the 41st International Performance Computing and Communications Conference (IPCCC’22), Austin, TX, November 2022

Above this post-tenure

- (P.7) **Yehia Arafa, Ammar Elwazir, Abdelrahman Elkanishy, Youssef Aly, Ayatelrahman Elsayed**, Abdel-Hameed A. Badawy, Stephan Eidenbenz, and Gopinath Chennupati, “Accurate Measurement of NVIDIA GPGPUs Instructions Energy Consumption”, *Poster* appears & presented at the 2020 IEEE International Symposium on Performance Analysis of Systems and Software (ISPASS’20), Boston, MA, August 2020
- (P.6) **Yehia Arafa**, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “GPUs Pipeline Latency Analysis”, *Poster* appears & presented at the 30th IEEE International Conference on Application-specific Systems, Architectures and Processors (ASAP’19), New York City, New York, July 2019. [**Acceptance Rate: 23.53%, 24 full papers, 10 short papers, 16 posters, out of 102 submissions**]
- (P.5) **Bhargava Kalla**, Nandakishore Santhi, Abdel-Hameed A. Badawy, Gopinath Chennupati, and Stephan Eidenbenz, “Probabilistic Monte Carlo Simulations for Static Branch Prediction”, *Poster* appears & presented at the 36th IEEE International Performance Computing and Communications Conference (IPCCC’17), December 2017, San Diego, California, USA. [**Accepted Posters 13; Main Conference Acceptance Rate: 32.73%, 54 papers out of 165**]
- (P.4) **Mohammad A. Qayum**, Abdel-Hameed A. Badawy, and Jeanine Cook, “Analyzing Hybrid Transactional Memory Performance using Intel SDE”, *Poster* appears & presented at the 19th IEEE International Conference on Cluster Computing (CLUSTER’17), September 2017, Honolulu, Hawaii, USA. [**Accepted Posters 24, Main Conference Acceptance rate 20.8%, including short papers 30.88%**]
- (P.3) **Bhargava Kalla**, Nandu Santhi, Abdel-Hameed A. Badawy, Gopinath Chennupati, and Stephan Eidenbenz, “Monte Carlo Techniques for Offline Branch Prediction”, *Poster* appears & presented at the 19th IEEE Cluster, September 2017, Honolulu, Hawaii, USA. [**Accepted Posters 24, Main Conference Acceptance rate 20.8%, including short papers 30.88%**]
- (P.2) **Nafiul A. Siddique**, and Abdel-Hameed A. Badawy, “Spare Block (SprBlk) Cache: Enabling Fault Resilience at Low Voltages”, *Poster* appears & presented at the 14th IEEE Autonomic and Trusted Computing (ATC) Conference, August 2017, San Francisco, CA, USA.
- (P.1) Patrick Jungwirth and Abdel-Hameed A. Badawy, “Cybersecurity and OSFA Architecture”, *Poster* appears & presented at the 9th National Cyber Summit, June 2017, Huntsville, AL, USA.

Technical Reports & Non-Refereed Publications

- (TR.3) **Aneesh Aggrawal**, Abdel-Hameed A. Badawy, Donald Yeung, and Chau-Wen Tseng, “Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”, Technical Reports of the Computer Science Department & UMIACS, *CS – TR – 4169; UMIACS – TR – 2000 – 57*, August 2000 [[Preliminary Results Technical Report](#), [PDF](#)]
- (TR.2) Abdel-Hameed A. Badawy, *and others*, “Mobile Intelligent Agent (Aglet) System based on the UNIMEM Algorithm for the Student Admissions Decision Problem”, *Technical Report*, SSDP-81 Graduation Project Technical Report published by the Information Technology Institute, Giza, Egypt, June 1997
- (TR.1) Abdel-Hameed A. Badawy, *and others*, “Computer-controlled Robot Arm System”, Technical Report, Capstone Graduation Project Report, Department of Computers and Systems, School of Engineering, Mansoura University, Mansoura, Egypt, June 1996

Theses & Dissertations

- (D.2) Abdel-Hameed A. Badawy, “Locality Transformations and Prediction Techniques for Optimizing Multicore Memory Performance”, *Appears in UMD Theses & Dissertations Electrical & Computer Engineering Theses and Dissertations*, August 2013. [[UMD Library](#), [PDF](#)]
- (D.1) Abdel-Hameed A. Badawy, “Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”, Technical Reports of the Computer Science Department & UMIACS, CS-TR-4392; UMIACS-TR-2002 – 72, September 2002. [[Master’s Thesis Technical Report](#), [PDF](#)]

Talks⁵

1. Abdur Razzak Rana*, Atanu Barai, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “Static Reuse Profile Estimation for Stencil Applications”, *talk* presented at the International Symposium on Memory Systems (MemSys’24), October 2024, Washington, DC
2. Nazmus Sakib*, Tarun Prabhu, Nandakishore Santhi, John Shalf, and Abdel-Hameed A. Badawy “Comparison of Vectorization Capabilities of Different Compilers for X86 and ARM CPUs”, *talk* presented at the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
3. Mohamed R. Elshamy*, Heba M. Emara, **Mohamed R. Shoaib**, and Abdel-Hameed A. Badawy, “P-YOLOv8: Efficient and Accurate Real-Time Detection of Distracted Driving”, *talk* presented at the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
4. Youssef Aly*, Atanu Barai, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “BB-CVXOPT: Basic Block Execution Count Estimation and Extrapolation using Constrained Convex Optimization”, *talk* presented at the 28th Annual IEEE High Performance Extreme Computing (HPEC’2024), Virtual Conference, September 2024
5. Shamminuj Aktar*, Andreas Bärtschi, Abdel-Hameed A. Badawy, Diane Oyen, and Stephan Eidenbenz, “Graph Neural Networks for Parameterized Quantum Circuits Expressibility Estimation”, *talk* presented at the 2024 5th IEEE International Conference on Quantum Computing and Engineering (QCE’24), September 2024, Montréal, Québec, Canada
6. Amin Sarihi*, Peter Jamieson, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “TrojanForge: Generating Adversarial Hardware Trojan Examples Using Reinforcement Learning”, *talk* presented at the 6th ACM/IEEE International Symposium on Machine Learning for CAD (MLCAD’24), September 2024, Snowbird, Utah
7. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit (PPT): A Scalable Performance Modeling and Prediction Approach for GPUs and CPUs”, **Invited Talk** University of Maryland, Baltimore County, Columbia, MD, April 2024
8. Hamdy Abdelkhalik*, Shamminuj Aktar, Yehia Arafa, Atanu Barai, Nishant Panda, Gopinath Chennupati, Nandakishore Santhi, Nirmal Prajapati, Nazmul Haque Turja, Stephan Eidenbenz, and Abdel-Hameed A. Badawy, “BB-ML: Basic Block Performance Prediction using Machine Learning Techniques”, *talk* presented at the 29th IEEE International Conference on Parallel and Distributed Systems (ICPADS’23), December 2023, Ocean Flower Island, Hainan, China
9. Abdel-Hameed A. Badawy, “PPT-SASMM: Scalable Analytical Shared Memory Model - Predicting the Performance of Multicore Caches from a Single-Threaded Execution Trace”, **Talk** presented at the International Symposium on Memory Systems (MemSys’23), October 2023, Alexandria, VA
10. Abdel-Hameed A. Badawy, “Modeling and Characterizing Shared and Local Memories of the Ampere GPUs”, *talk* presented at the International Symposium on Memory Systems (MemSys’23), October 2023, Alexandria, VA

⁵Presenter highlighted by a star. Any talk given by a student, I worked with them heavily on the talk.

11. Abdel-Hameed A. Badawy, “LLVM Static Analysis for Program Characterization and Memory Reuse Profile Estimation”, *talk* presented at the International Symposium on Memory Systems (MemSys’23), October 2023, Alexandria, VA
12. Amin Sarihi*, Peter Jamieson, Ahmad Patooghy, and Abdel-Hameed A. Badawy, “Multi-criteria Hardware Trojan Detection: A Reinforcement Learning Approach”, *talk* presented at the 2023 IEEE 66th International Midwest Symposium on Circuits and Systems (MWSCAS’23), August 2023, Phoenix, AZ
13. Ayatelrahman Elsayed, Mona Y. Elshinawy*, Nada Ibrahim, Randall Woodall, Abdel-Hameed A. Badawy, and Satish Ranade, “Regression Models for Solar Radiation Prediction”, *talk* presented at the 25th International Conference on Artificial Intelligence (ICAI’23), July 2023, Las Vegas, NV
14. Shamminuj Aktar*, Andreas Bärtzchi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “Scalable Experimental Bounds for Entangled Quantum State Fidelities”, *talk* presented *virtually* at the 20th ACM International Conference on Computing Frontiers (CF’23), May 2023, Bologna, Italy
15. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit (PPT): A Scalable Performance Modeling and Prediction Approach for GPUs and CPUs”, *Invited Talk* University of Texas at El Paso, El Paso, TX, March 2023
16. Shamminuj Aktar*, Andreas Bärtzchi, Abdel-Hameed A. Badawy, and Stephan Eidenbenz, “State Preparation Fidelities for Dicke States”, *talk* presented at the 24th Annual Southwest Quantum Information and Technology (SQuInT) Workshop, Berkeley, CA, October 2022
17. Hamdy Abdelkhalik*, Yehia Arafa, Nandakishore Santhi, and Abdel-Hameed A. Badawy, “Demystifying the Nvidia Ampere Architecture through Microbenchmarking and Instruction-level Analysis”, *talk* presented at the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022
18. Shamminuj Aktar*, Abdel-Hameed A. Badawy, and Nandakishore Santhi, “A Divide-and-Conquer Approach to Dicke State Preparation”, *talk* presented at the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022
19. Essa Imhmed*, Jonathan Cook, and Abdel-Hameed A. Badawy, “Evaluation of a Novel Scratchpad Memory Through Compiler Supported Simulation”, *Talk* presented at the 26th Annual IEEE High Performance Extreme Computing (HPEC’2022), Virtual Conference, September 2022
20. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPGPUs (PPT-GPU): A Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Invited Talk* Florida International University, Miami, FL, April 2022
21. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPGPUs (PPT-GPU): A Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Invited Talk* Florida A&M University and Florida State University, College of Engineering, Tallahassee, FL, March 2022
22. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPGPUs (PPT-GPU): A Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Invited Talk* presented *virtually* at AMD, February 2022
23. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPGPUs (PPT-GPU): A Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Invited Talk* presented *virtually* at DRDC, Ottawa Research Center Seminar Series, Ottawa, ON, Canada, January 2022
24. Yehia Arafa*, Abdel-Hameed A. Badawy, Ammar ElWazir, Atanu Barai, Ali Eker, Gopinath Chen-nupati, Nandakishore Santhi, and Stephan Eidenbenz, “Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Talk* presented at the International Conference for High Performance Computing, Networking, Storage and Analysis (SC’21), St. Louis, MO, USA, November 2021

25. Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPGPUs (PPT-GPU): A Hybrid, Scalable, Trace-Driven Performance Modeling of GPGPUs”, *Invited Talk* presented *virtually* at the Lawrence Berkeley – Los Alamos National Laboratories collaboration seminars, Los Alamos, NM, USA, October 2021.
26. Yehia Arafa* and Abdel-Hameed A. Badawy, “Performance Prediction Toolkit for GPUs Cache Memories”, *Invited Talk* presented *virtually* at the [Workshop on Principles of Memory Hierarchy Optimization \(PMHO\)](#) held in conjunction with [Principles and Practice of Parallel Programming \(PPoPP’2021\)](#), February 2021

Above this post-tenure

27. Atanu Barai*, Gopinath Chennupati, Nandakishore Santhi, Abdel-Hameed A. Badawy, Yehia Arafa, and Stephan Eidenbenz, “PPT-SASMM: Scalable Analytical Shared Memory Model - Predicting the Performance of Multicore Caches from a Single-Threaded Execution Trace”, *Talk* presented *virtually* at the International Symposium on Memory Systems (MemSys’20), October 2020.
28. Yehia Arafa*, Abdel-Hameed A. Badawy, Gopinath Chennupati, Atanu Barai, Nandakishore Santhi, and Stephan Eidenbenz, “Fast, Accurate, and Scalable Memory Modeling of GPGPUs using Reuse Profiles”, *Talk* presented *virtually* at the [34th International Conference on Supercomputing \(ICS’20\)](#), July 2020
29. Yehia Arafa*, Ammar Elwazir, Abdelrahman Elkanishy, Youssef Aly, Ayatelrahman Elsayed, Abdel-Hameed A. Badawy, Gopinath Chennupati, Stephan Eidenbenz, and Nandakishore Santhi, “Verified Instruction-Level Energy Consumption Measurement for NVIDIA GPUs”, *Talk* presented *virtually* at the [17th ACM International Conference on Computing Frontiers \(CF’20\)](#), May 2020
30. Yehia Arafa, Gopinath Chennupati, Atanu Barai, Abdel-Hameed A. Badawy, Nandakishore Santhi, and Stephan Eidenbenz*,⁶, “GPUs Cache Performance Estimation using Reuse Distance Analysis”, *Talk* presented at the [38th IEEE International Performance Computing and Communications Conference \(IPCCC’19\)](#), October 2019, London, UK
31. Yehia Arafa*, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, “Instructions’ Latencies Characterization for NVIDIA GPGPUs”, *Talk* presented at the 2019 IEEE 23rd Annual High Performance Extreme Computing Conference(HPEC’19), September 2019, Waltham, MA, USA. [*Best Student Paper Finalist*]
32. Abdelrahman Elkanishy*, Derrick T. Rivera, Abdel-Hameed A. Badawy, Paul M. Furth, Z.M. Saifulah, and Christopher P. Michael, “An FPGA Decision Tree Classifier to Supervise a Communication SoC”, *Talk* presented at the 2019 IEEE 23rd Annual High Performance Extreme Computing Conference(HPEC’19), September 2019, Waltham, MA, USA
33. Abdelrahman Elkanishy*, Abdel-Hameed A. Badawy, Paul Furth, Laura Boucheron, Christopher Michael, “Supervising Communication SoC for Secure Operation Using Machine Learning”, *Talk* presented at the 2019 IEEE 62nd International Midwest Symposium on Circuits and Systems (MWS-CAS’19), August 2019, Dallas, TX, USA. [*Best Student Paper Finalist*]
34. Matthew Bredin*, Abdel-Hameed A. Badawy, Janice McMahon, and Shannon Kuntz, “Initial Explorations of Sparse Matrix-Vector Multiplication on EMU’s Migratory Memory Side Processing”, *Talk* presented at the 5th National Symposium for NSF REU Research in Data Science, Systems, and Security, held in conjunction with the 2018 IEEE International Conference on Big Data (IEEE Big Data 2018), December 2018, Seattle, WA, USA
35. Abdel-Hameed A. Badawy, “3D-PIM NoCs with Multiple Subnetworks: A Performance and Power Evaluation”, *Talk* presented at the [37th IEEE International Performance Computing and Communications Conference \(IPCCC’18\)](#), November 2018, Orlando, FL, USA.

⁶None else could travel internationally. The student and I prepared the talk.

36. Yehia Arafa*, Abdel-Hameed A. Badawy, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, "PPT-GPU: Performance Prediction Toolkit for GPUs Identifying the impact of caches: Extended Abstract", **Talk** presented at the International Symposium on Memory Systems (MemSys'18), October 2018, Washington, DC, USA
37. Yehia Arafa*, Atanu Barai, Abdel-Hameed A. Badawy, and Mai Zheng, "Fault Tolerance Performance Evaluation of Large Scale Distributed Storage Systems: HDFS and Ceph Case Study", **Talk** presented at the 2018 IEEE 22nd Annual High Performance Extreme Computing Conference (HPEC'18), September 2018, Boston, MA, USA
38. Yehia Arafa, Atanu Barai*, Mai Zheng, and Abdel-Hameed A. Badawy, "Evaluating the Fault Tolerance Performance of HDFS and Ceph", **Talk** presented at the Practice and Experience on Advanced Research Computing (PEARC'18), July 2018, Pittsburgh, PA, USA
39. Abdel-Hameed A. Badawy, "Optimizing Locality in Graph Computations using Reuse Distance Profiles", **Talk** presented at the 2017 IEEE 36th International Performance Computing and Communications Conference (IPCCC'2017), December 2017, San Diego, California, USA
40. Strahinja Trecakov, Casey Tran*, Abdel-Hameed A. Badawy, Nafiul Siddique, Jaime Acosta, and Satyajayant Misra, "Can Architecture Design Help Eliminate Some Common Vulnerabilities?", **Talk** presented at the 2017 IEEE 14th International Conference on Mobile Ad Hoc and Sensor Systems (MASS'17), October 2017, Orlando, Florida, USA
41. Abdel-Hameed A. Badawy, "SprBlk Cache: Enabling Fault Resilience at Low Voltages", **Talk** presented at the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
42. Abdel-Hameed A. Badawy*, "LMStr: An On-Chip Shared Hardware Controlled Scratchpad Memory for Multicore Processors", **Talk** presented at the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
43. Mohammd A. Qayum*, Abdel-Hameed A. Badawy, and Jeanine Cook, "DyAdHyTM: A Low Overhead Dynamically Adaptive Hybrid Transactional Memory for Large Graphs", **Talk** presented at the International Symposium on Memory Systems (MemSys'17), October 2017, Washington, DC, USA.
44. Abdel-Hameed A. Badawy, "Secure Computing Architecture: A Direction for the Future – The OS Friendly Microprocessor Architecture", **Talk** presented at the High Performance Extreme Computing (HPEC'17), September 2017, Boston, MA, USA.
45. Mohammd A. Qayum, Abdel-Hameed A. Badawy*, and Jeanine Cook, "DAdHTM: Dynamically Adaptive Hardware Transactional Memory A Scalability Study", **Talk** presented at the IEEE 17th Scalable Computing (ScalCom), August 2017, San Francisco, CA.
46. Nafiul A. Siddique, Patricia Gruble, Abdel-Hameed A. Badawy*, "The Time-Varying Nature of Cache Utilization A Case Study on the Mantevo and Apex Benchmarks ", **Talk** presented at the 14th IEEE Autonomic and Trusted Computing (ATC) Conference, August 2017, San Francisco, CA.
47. Nafiul A. Siddique, Abdel-Hameed A. Badawy*, Jeanine Cook, and David Resnick, "Local Memory Store (LMStr): A Hardware Controlled Scratchpad for Multicores", **Talk** presented at the 14th IEEE Autonomic and Trusted Computing (ATC) Conference, August 2017, San Francisco, CA.
48. Yehia Arafa, Abdel-Hameed A. Badawy*, Gopinath Chennupati, Nandakishore Santhi, and Stephan Eidenbenz, "PPT-GPU: Performance Prediction Toolkit for GPUs", **Talk** presented at the LANL USRC Annual Student Research Symposium, Los Alamos, August 2018.
49. Yehia Arafa*, Atanu Barai*, Mai Zheng, and Abdel-Hameed A. Badawy, "Fault Tolerance Performance Evaluation of Large Scale Distributed Storage Systems: HDFS and Ceph Case Study", **Talk** presented at the 1st NM ECE Student Conference, Albuquerque, NM, April 2018.

50. Nafiul A. Siddique, Abdel-Hameed A. Badawy*, Jeanine Cook, and David Resnick, “Local Memory Store (LMStr): The Case for Hardware Controlled Scratchpad Memory for General Purpose Processors”, **Talk** presented at the 35th IEEE International Performance Computing and Communications Conference (IPCCC), Las Vegas, NV, December 2016
51. Nafiul A. Siddique, Patricia Gruble, Abdel-Hameed A. Badawy*, and Jeanine Cook, “Cache Utilization as a Metric for Locality: A Case study on the Mantevo Suite”, **Talk** presented at the International Conference on Computational Science and Computational Intelligence (CSCI), Symposium on Parallel and Distributed Computing and Computational Science (CSCI-ISPD), Las Vegas, NV, December 2016.
52. Abdel-Hameed A. Badawy*, Mohammad Ibrahim, and Spencer Benson, “Let There Be Hope: Assessing the Implications of Exam Re-Taking on Student Learning Outcomes and Grades of Engineering Students Grounded on Metacognition Awareness Framework”, **Talk** presented at the International Conference on Computational Science and Computational Intelligence (CSCI), Symposium on Education (CSCI-ISED), Las Vegas, NV, December 2016.
53. Abdel-Hameed A. Badawy, “Towards Exascale Computing: Locality, Communications and Energy”, **Invited Talk** NMCRDC High Performance Computing, Big Data, and Cybersecurity Cluster Workshop, Albuquerque, NM, September 2016.
54. Abdel-Hameed A. Badawy, “Towards Exascale Computing: Locality, Communication, and Energy”, **Invited Talk** Oakland University, Rochester, MI, April 2016.
55. Abdel-Hameed A. Badawy, “Towards Exascale Computing: Locality, Communication, and Energy”, **Invited Talk** Villanova University, Villanova, PA, March 2016.
56. Abdel-Hameed A. Badawy, “Towards Exascale Computing: Locality, Communication, and Energy”, **Invited Talk** University of Dayton, Dayton, OH, February 2016.
57. Abdel-Hameed A. Badawy, “Locality in the Exascale Era and Beyond”, **Invited Talk** New Mexico State University, Las Cruces, NM, January 2016.
58. Ahmad Anbar*, Olivier Serres, Engin Kayraklioglu, Abdel-Hameed A. Badawy, and Tarek El-Ghazawi, “PHLAME: Hierarchical Locality Exploitation using the PGAS Model”, **Talk** presented at the 9th IEEE Partitioned Global Address Space Conference (PGAS 2015), Washington, DC, September 2015.
59. Abdel-Hameed A. Badawy, “Locality in the Exascale era and beyond”, **Invited talk** presented at the IEEE Arkansas River Valley Section Annual Meeting, Russellville, AR, April 2015.
60. Abdel-Hameed A. Badawy, “Locality in the Exascale Era and Beyond”, **Invited Talk** University at Albany (SUNY), Albany, NY, April 2015.
61. Abdel-Hameed A. Badawy, “Locality in the Exascale Era and Beyond”, **Invited Talk** Miami University, Oxford, OH, March 2015.
62. Ahmad Anbar, Abdel-Hameed A. Badawy, Olivier Serres, and Tarek El-Ghazawi*, “Where Should The Threads Go? Leveraging Hierarchical Data Locality to Solve the Thread Affinity Dilemma”, **talk** presented at the 20th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2014), Hsinchu, Taiwan, December 2014.
63. Gabriel Yessin, Abdel-Hameed A. Badawy, Vikram Narayana, David Mayhew, and Tarek El-Ghazawi*, “CERE: Cache REcommendation Engine: Efficient Evolutionary Cache Hierarchy Design Space Exploration”, **talk** presented at the 11th IEEE International Conference on Embedded Software and Systems (ICESS 2014), Paris, France, August 2014.
64. Karl B. Schmitt*, Abdel-Hameed A. Badawy, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “A Failing Grade for Faculty: Comparing Faculty Perception of Student Expectations and Reality”, **talk** to be presented at the 30th Annual Consortium of Computer Science in Colleges (CCSC), Eastern Regional Conference, (CCSCE 2014), York, PA, November 2014.

65. Abdel-Hameed A. Badawy*, “The Student-Faculty Chasm: Looking at where student and faculty expectations meet and change”, *Invited Talk* presented at the [Pennsylvania State System of Higher Education \(PASSHE\) Distance Education Virtual Conference](#), February 2014.
66. Abdel-Hameed A. Badawy*, Karl B. Schmitt, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “Expectations of Computing and other STEM Students: A Comparison for different Class Levels, or $(CSE \neq STEM - CSE)|_{Course\ Level}$ ”, *talk* presented at the 43rd Annual IEEE Frontiers in Education (FIE 2013) Conference, Oklahoma City, OK, October 2013.
67. Abdel-Hameed A. Badawy*, Elise Larsen, Karl B. Schmitt, Sabrina Kramer, Katie Marie Hrapczynski, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “The Student-Faculty Chasm: Looking at where student and faculty expectations meet and change”, *talk* presented at the Annual Lilly-DC Conference on College and University Teaching and Learning, Washington, DC, June 2013. [[Presentation Slides](#)].
68. Abdel-Hameed A. Badawy, “Knowing Your inner Chip: An Ultra-fast Introduction to Computer Architecture”, *Invited Talk* Arkansas Tech University, Russellville, AR, April 2013.
69. Abdel-Hameed A. Badawy, “An Ultra-fast Introduction to Computer Architecture”, *Invited Talk* Ohio Northern University, Ada, OH, January 2013.
70. Karl B. Schmitt*, Abdel-Hameed A. Badawy, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “Student Expectations from CS and other STEM Courses: They aren’t Like CS-Majors! or $(CS \neq STEM - CS)$ ”, *talk* presented at the Consortium of Computer Science in Colleges, North East Conference, (CCSCNE 2013), Albany, NY, April 2013. [[Presentation Slides](#)]
71. Abdel-Hameed A. Badawy*, and Karl Schmitt*, “Student Expectations”, *talk* presented at the University of Maryland Graduate Teaching Assistants Orientation, College Park, MD, August 2012.
72. Abdel-Hameed A. Badawy*, Katie Hrapczynski, Mara Dougherty, Karl Schmitt, Breanne Robertson, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “What Do They Expect? Assessment of Student Expectations in the Classroom and Applications for Faculty”, *talk* presented at the Annual Lilly-DC Conference on College and University Teaching and Learning, Washington, DC, June 2012.
73. Abdel-Hameed A. Badawy*, Karl Schmitt, Breanne Robertson, Mara Dougherty, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Matthew Walker Miller, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “What Do The Students Expect? A Tool for Analyzing Student Expectations”, *talk* presented at the Innovations in Teaching and Learning (ITL) Conference, University of Maryland, College Park, MD, April 2012.
74. Karl Schmitt*, Elise Larsen*, Abdel-Hameed A. Badawy, Breanne Robertson, Mara Dougherty, Katie Marie Hrapczynski, Andrea Andrew, Matthew Miller, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “From Seed to STEM: Cultivating Understanding of Student and Faculty Classroom Expectations”, *talk* presented at the Lilly Fellows Annual Meeting, Center for Teaching Excellence, University of Maryland, College Park, MD, April 2012.
75. Abdel-Hameed A. Badawy, “Blackboard: Online Learning for the Facebook Generation”, *talk* presented at Graduate Teaching Assistants mandatory training workshop, Electrical and Computer Engineering Department, College Park, MD, October 2010 and December 2011.
76. Abdel-Hameed A. Badawy, “Discussion Boards on Blackboard as a Collaborative Learning Tool: A Survey and Students’ Reflections: What would the students do for a freebie point?”, *talk* presented at the 31st Annual International Lilly Conference on College Teaching, Oxford, OH, November 2011.

77. Abdel-Hameed A. Badawy, “Discussion Boards on Blackboard as a Collaborative Learning Tool: A Survey and Students’ Reflections”, **talk** presented at the 30th Annual International Lilly Conference on College Teaching, Oxford, OH, November 2010.
78. Abdel-Hameed A. Badawy, “ELMS, the Facebook of the Classroom: Using ELMS and its Discussion Boards as an Environment for Active and Collaborative Learning”, **talk** presented as a training workshop at the Electrical and Computer Engineering Department as part of the Graduate Teaching Assistant Training and Development Program, College Park, MD, October 2010.
79. Abdel-Hameed A. Badawy, “Lessons from the Blackboard’s Automatic Usage Statistics”, **talk** presented at the 10th Annual Lilly-TC, Conference on College and University Teaching and Learning, Traverse City, MI, September 2010.
80. Abdel-Hameed A. Badawy*, and Michelle Hugue, “The Effectiveness of Blackboard and Discussion Boards in Junior Computer Science/Engineering Class: Survey and Students’ Reflections”, *Appears at the 17th International Conference on Learning*, Hong Kong Institute of Education, Hong Kong, Paper # L10P1185, July 6 – 9, 2010. [Abstract](#), [PowerPoint Slides](#), Youtube video [Part I](#) ,[Part II](#)
81. Abdel-Hameed A. Badawy*, and Michelle Hugue, “Determining the Effectiveness of Discussion Board Interactivity”, **talk** presented at the Innovations in Teaching and Learning Conference (ITL 2010), University of Maryland, College Park, April 2010.
82. Abdel-Hameed A. Badawy, “Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”, **talk** presented at the ACM’s International Conference on Supercomputing (ICS 2001), Sorrento, Italy, June 2001.
83. Abdel-Hameed A. Badawy*, and Donald Yeung, “Evaluating the Impact of Memory System Performance on Software Prefetching and Locality Optimizations”, **talk** presented at Research Review Day, University of Maryland, College Park, February 2001.

Posters Presentations⁷

1. Amin Sarihi*, Ahmad Patooghy, Peter Jamieson, Abdel-Hameed A. Badawy, “Hiding in Plain Sight: Reframing Hardware Trojan Benchmarking as a Hide&Seek Modification”, **Poster** presented as a Late Breaking (LB) paper at the International Conference on Compilers, Architectures, and Synthesis for Embedded Systems (CASES’24), as part of the Embedded Systems Week (ESWEEK), October 2024.
2. Amin Sarihi*, Michael Schoenfelder, and Abdel-Hameed A. Badawy, “Performance Evaluation of an Out-of-Order RISC-V CPU: A SPEC INT 2017 Study”, **Poster** presented at the 41st International Performance Computing and Communications Conference (IPCCC’22), Austin, TX, November 2022

Above this post-tenure

3. Abdelrahman Elkanishy*, Abdel-Hameed A. Badawy, Paul M. Furth, Laura E. Boucheron, and Christopher P. Michael, “Machine Learning Bluetooth Profile Operation Verification via Monitoring the Transmission Pattern”, **Poster** presented at the 2019 Asilomar Conference on Signals, Systems, and Computers (Asilomar’2019), November 2019, Asilomar, CA, USA
4. Matthew Bredin*, Abdel-Hameed A. Badawy, Janice McMahon, and Shannon Kuntz, “Sparse Matrix-Vector Multiplication with Migratory Memory Side Processing”, *Poster* presented at the NSF and AAAS Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM) Conference, February 2019, Washington, DC, USA
5. Abdelrahman Elkanishy*, Laura Boucheron, Paul Furth, Abdel-Hameed A. Badawy, Manaswini Gangineni, and Anurag Veerabathini, “Bluetooth Operation Classification via Low-Frequency Monitoring of the RF Output Signal”, *Poster & Oral presentation* at New Mexico Academy of Science Research Symposium, October 2018, Albuquerque, NM, USA

⁷Presenter highlighted by a star. I work closely with the student presenters.

6. Ammar Elwazir*, David Voelz, and Abdel-Hameed A. Badawy, “Ray Matrices and SpMV Compression Methods”, *Poster* presented at New Mexico Academy of Science Research Symposium, October 2018, Albuquerque, NM, USA
7. Ian Goetting*, Abdel-Hameed A. Badawy, and Patrick Jungwirth, “Examination of software simulators for modeling the Operating System Friendly Architecture”, *Poster* presented at the NSF/AAAS Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM) Conference, February 2018, Washington, DC, USA
8. Bhargava Kalla, Nandu Santhi, Abdel-Hameed A. Badawy*, Gopinath Chennupati, and Stephan Eidenbenz, “Probabilistic Monte Carlo Simulations for Static Branch Prediction”, *Poster* presented at the 36th IEEE International Performance Computing and Communications Conference (IPCCC’2017), December 2017, San Diego, California, USA
9. Abdel-Hameed A. Badawy*, Karl B. Schmitt, Sabrina Kramer, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Mara Dougherty, Matthew Miller, Artesha Taylor, Breanne Robertson, Alexis Williams, and Spencer Benson, “On the Expectations of Computer Science and other STEM Students”, **Poster** presented at the Annual Innovation in Teaching and Learning (ITL) Conference, University of Maryland, College Park, April 2013. [[Abstract](#), [Presentation Slides](#)].
10. Abdel-Hameed A. Badawy*, Karl Schmitt, Breanne Robertson, Mara Dougherty, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Matthew Miller, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “Building a Tool for pre-assessing Student Expectations”, **poster** presented at the Graduate Research Interaction Day, UMD, College Park, MD, April 2012. [**Best Student Poster Award**].
11. Abdel-Hameed A. Badawy*, Karl Schmitt, Breanne Robertson, Mara Dougherty, Katie Marie Hrapczynski, Elise Larsen, Andrea Andrew, Matthew Miller, Artesha Taylor, Alexis Williams, Sabrina Kramer, and Spencer Benson, “What Do The Students Expect? A Tool for Analyzing Student Expectations”, **poster** presented at the Innovations in Teaching and Learning (ITL) Conference, University of Maryland, College Park, MD, April 2012.
12. Mona Y. Elshinawy*, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha, “Screening-out Normal Mammograms using Breast Density Information”, **poster** presented at the 8th Era of Hope Workshop, Department of Defense (DoD) Breast Cancer Research Program (BCRP), Orlando, FL, August 2011.
13. Abdel-Hameed A. Badawy, “What can we get from our students for a freebie point?”, **poster** presented at the Annual Lilly-DC Conference on College and University Teaching and Learning, Washington, DC, June 2011.
14. Mona Y. Elshinawy*, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha, “Effect of Breast Density in Selecting Features for Normal Mammogram Detection”, **poster** presented at the 8th IEEE International Symposium on Biomedical Imaging (ISBI), Chicago, IL, April 2011.
15. Mona Y. Elshinawy*, Abdel-Hameed A. Badawy, Wael W. Abdelmageed, and Mohamed F. Chouikha, “One-Class Support Vector Machines vs. Two-class Support Vector Machines for Normal Mammogram Detection”, **poster** presented at the IEEE Workshop on Applied Imagery Pattern Recognition (AIPR), Washington, DC, October 2010. [**Best Student Paper Award**].
16. Abdel-Hameed A. Badawy, “Students’ Perceptions of the Effectiveness of Discussion Boards”, **poster** presented at the 10th Annual Lilly-TC, Conference on College and University Teaching and Learning, Traverse City, MI, September 2010.
17. Meng-Ju Wu, Abdel-Hameed A. Badawy*, Inseok Choi, Xu Yang, and Donald Yeung, “Scalability of Multicore Processors”, **poster** presented at Research Review Day, UMD, 2009.
18. Abdel-Hameed A. Badawy, “Prefetch-aware Memory-controllers”, **poster** presented at the Graduate Research Interaction Day, UMD, College Park, MD, 2004. [**Award of Excellence**].

19. Abdel-Hameed A. Badawy*, and Donald Yeung, “Studying the effects of Software Prefetching and Locality Optimizations on System Energy and Power”, *poster* presented at the Research Review Day, UMD, College Park, MD, 2003.

TEACHING INTERESTS

Computer Architecture, Computer Organization, Computer Performance Analysis, Digital Logic Design, Computer Performance Analysis, Advanced Computer Architecture, and Quantum Computing

TEACHING EXPERIENCE

Courses taught at New Mexico State University:

- “EE260: Embedded Systems” [Fall 2016, Spring 2017]
- “EE212: Introduction to Computer Organization” [Spring 2018, Fall 2019, Summer 2021]
- “EE462/562: Computer Architecture” [Fall 2018 – 2024]
- “EE563: Computer Performance Analysis I” [Spring 2020, 2023, 2024]
- “EE564: Advanced Computer Architecture I” [Fall 2017, Spring 2019 – 2022, 2024]
- “EE443/593: Mobile Application Development” [Spring 2019, 2020]
- “EE490/590: Applications of Parallel Computing: XSEDE Collaborative Course” [Spring 2019–2022]
- “EE406/506: Quantum Computing” [Spring 2020 – 2022, 2024]

Courses taught at Arkansas Tech University:

- “ELEG2134/2130: Digital Logic Design and Lab” [Fall 2013 – 2015, Spring 2014, 2015]
- “ELEG3133: Microprocessor System Design and Lab” [Fall & Spring 2014, 2015]
- “ELEG4192/4193: Senior Design” [Fall 2014, 2015, Spring 2015]
- “ELEG1012: Introduction to Electrical Engineering” [Fall 2013, Spring 2014]

HONORS, AWARDS, INVITATIONS, & TRAVEL GRANTS

1. **New Mexico Consortium Conference Travel Grant** of \$6,000 to attend and present a paper at SC’21 along with a PhD student, November 2021.
2. **New Mexico Consortium Conference Travel Grant** of \$10,000 to attend and present papers at ModSim’19, HPEC’19, MemSys’19, Asilomar’19, and SC’19, August – December 2019.
3. **Best Student Paper Runner up** for my student *Yehia Arafa* for his paper, “Instructions’ Latencies Characterization for NVIDIA GPGPUs”, at the 2019 IEEE 23rd Annual High Performance Extreme Computing Conference(HPEC’19), September 2019, Waltham, MA, USA.
4. **Outstanding Program Committee Member** the International Symposium on Memory Systems, Washington, DC, October 2018.
5. **New Mexico Consortium Conference Travel Grant** of \$10,000 to attend and present a papers at HPEC’18, MemSys’18, SC’18, and IPCCC’18, September – November 2018.
6. **National Science Foundation Grant** of \$1750 to attend/participate at “Rethinking Engineering Education at HSIs” held at Annual ASEE Conference held at Salt Lake City, UT, June 2018.
7. **National Science Foundation Grant** of \$250 to attend/participate at “Rethinking Engineering Education at HSIs” held at the University of Texas at ElPaso, ElPaso, TX, March 2018.
8. **National Science Foundation Travel Grant** of \$500 to attend/participate at “Consejos Colectivos: Improving STEM Success at HSIs” held at El Centro College, and facilitated by TEES EDGE, Dallas, TX, February 2018.
9. **New Mexico Consortium Conference Travel Grant** of \$8500 to attend and present papers and poster papers at IPCCC’17, SC’17, and CLUSTER’17, September – December 2017

10. **Best Student Paper Award** for “Energy Efficient Job Co-Scheduling for High-Performance Parallel Computing Clusters”, at the 5th IEEE International Conference on Sustainable Computing and Communications (SustainCom’15), Chengdu, China, December 2015.
11. Invited to participate at the [OSA Optical Computing Incubator](#), Optical Society of America, December 2015
12. **Outstanding Service Award** for role as the [Publication Chair of the IEEE 9th PGAS’2015 conference](#), September 2015
13. Listed in Who’s Who in America 68th, 69th, & 70th Editions.
14. Listed in Who’s Who in Engineering Education since 2014, [Academic Keys](#)
15. **Appointed Member of CIRTl’s task-force** established at UMD for the [Center for Integration of Research, Teaching and Learning](#) (CIRTl) at UMD. This task-force is established after UMD had participated in a 25 million dollar grant submitted to the National Science Foundation (NSF).
16. **Best Student Poster Award** and a **Grant** of \$500 in the University of Maryland, Graduate Research Interaction Day (GRID 2012) (An interdisciplinary research competition attended by more than 500 presenters) for the poster “Building a Tool for pre-assessing Student Expectations”, April 2012.
17. **CTE-Lilly Graduate Fellow**, a [cohort of nine graduate students](#) to do a relevant teaching and learning study to the University of Maryland and its students. Nine graduate students only are selected for this fellowship for the 2011 – 2012. Each fellow got a stipend of 1000 and 500 conference travel grant. A summary of the developed project is available [here](#).
18. **Poster presentation Invitation** at the 8th Era of Hope Conference, Breast Cancer Research Program (BCRP), Department of Defense, held in Orlando, FL, August 2 – 5, 2011.
19. **NIH-funded Conference Travel Grant** of \$300 to attend the International Symposium on Biomedical Imaging (ISBI 2011), March 2011.
20. **University of Maryland Graduate School Goldhaber Conference Travel Grant** of \$400 to present a paper at the International Symposium on Biomedical Imaging (ISBI 2011), March 2011.
21. **Best Student Paper Award** and a **Grant** of \$200 for the paper titled: “One-Class Support Vector Machines vs. Two-class Support Vector Machines for Normal Mammogram Detection”, presented at the IEEE Workshop on Applied Imagery Pattern Recognition (AIPR 2010), Washington, DC, October 2010.
22. **Teaching Assistants Training and Development (TATD) Fellow** at the ECE Dept., University of Maryland, for the 2010 – 2011 & 2011 – 2012 academic years including 2X\$250 conference travel grants.
23. **CTE Lilly-DC Conference Grants** from the Center for Teaching Excellence (CTE) to attend the Lilly Conference held in Bethesda, MD, 2010, 2011, 2012, 2013.
24. **Noyce Scholarship** to attend the 2010 National Center for Science & Civic Engagement (NCSCE) Symposium and Capitol Hill poster Session held in Washington DC and the University of Maryland, College Park, April 2010. **[Only five scholarships were awarded]**
25. **CTE Lilly-East Conference Grants** from UMD’s Center for Teaching Excellence (CTE) to attend the Lilly Conference held at the University of Delaware, 2008 & 2009.
26. **Award of Excellence** and a **Grant** of \$200 in the University of Maryland, [Graduate Research Interaction Day](#) (GRID 2004) (An interdisciplinary research competition attended by more than 200 presenters) for the poster titled: “Prefetch-aware Memory Controllers”, April 2004.
27. **Egyptian Cabinet Scholarship** for a training program at the [Information Technology Institute](#) (ITI), Giza, Egypt, August 1996 - July 1997.
28. **Distinguished Student Excellence Award** in every year of the B.Sc. Study, 1991 – 1996.

SERVICE

Department, College, & University

1. Judget at the New Mexico Postdoc Symposium, NMSU, September 2024
2. Voting Member of the University Program Approval Committee (UPAC), representing as the chair of the Graduate Faculty Council, NMSU, May 2024 – May 2025
3. Chair of the Graduate Faculty Council, Graduate School, NMSU, May 2024 – May 2025
4. Elected as the Engineering Faculty Senior Senator serving (voted by acclamation by all College of Engineering senators) on the Faculty Senate Leadership Committee, which meets twice monthly, once with the University Executive Team and once to plan and set the agenda for the senate monthly meeting, Spring 2024 – Spring 2025
5. ECE PhD Qualifier Committee Member, Klipsch School of ECE, New Mexico State University, Spring 2024 –
6. Chair of the Vision Team of the “Advisory Council on NMSU Research Computing”, Research, Creativity and Economic Development, New Mexico State University, Spring 2024 –
7. Search committee member, “Associate Dean of the Graduate School”, New Mexico State University, Spring 2024
8. Vision Team Member of the “Advisory Council on NMSU Research Computing”, Research, Creativity and Economic Development, New Mexico State University, Fall 2023 –
9. Search Committee member, “Computer Engineering Faculty Search at the Klipsch School of Electrical and Computer Engineering”, New Mexico State University, Fall 2023 – Spring 2024
10. Search Committee member, “Computer Engineering Faculty Search at the Department of Computer Science”, New Mexico State University, Fall 2023 – Spring 2024
11. Search Committee member, “Director Biomedical Informatics & Data Science Center”, New Mexico State University, Fall 2023 – Spring 2024
12. Faculty Senate, Research & Creative Activities Committee, Spring 2023 – Spring 2025
13. Elected as the Engineering Faculty Senior Senator serving (voted by acclamation by all College of Engineering senators) on the Faculty Senate Leadership Committee, which meets twice monthly, once with the University Executive Team and once to plan and set the agenda for the senate monthly meeting, Spring 2023 – Spring 2024
14. Graduate Faculty Council Standing Committee on Graduate Faculty Status, Graduate School, NMSU, May 2023 – May 2025
15. Chair-Elect (Vice Chair) for the Graduate Faculty Council, Graduate School, NMSU, May 2023 – May 2024
16. Founding Faculty member for a new Computer Engineering degree at Klipsch School of Electrical and Computer Engineering, New Mexico State University, Fall 2018. Program approved by the NM HED, April 2023
17. Committee member, “Faculty Advisory Committee on Cybersecurity Initiatives”, Spring 2023 –
18. Search committee member, “Graduate School Dean”, New Mexico State University, Fall 2022 – Spring 2023
19. Ad-hoc committee member, “Faculty Evaluation Process Improvement”, commissioned by NMSU provost, Fall 2022 – Spring 2023
20. Judge at the College of Engineering, Combined Capstone Poster Presentations, Fall & Spring 2022 –
21. Faculty Senate, Curriculum and Programming Committee, May 2022 – Spring 2023
22. Faculty Senate, representative of the College of Engineering, May 2022 –

23. Elected Member – Graduate Faculty Council, Graduate School, NMSU – representing PhD granting departments from the College of Engineering, May 2021 –
24. Faculty advisor for the NMSU Muslim Students Association chapter, New Mexico State University, November 2021 – September 2023
25. Judge at the New Mexico State University, College of Engineering, WERC Design Contest, Farm & Ranch Museum, Las Cruces, NM, 2018, 2020 – 2023
26. Graduate Studies committee member, Klipsch School of Electrical and Computer Engineering, New Mexico State University, October 2018 –

Above this post-tenure

27. Faculty advisor for one Capstone project sponsored by General Dynamics (9 students), New Mexico State University, August 2019 – May 2020
28. Faculty Customer for three cornerstone projects. The projects are to create smart home devices based on Arduino, WiFi, and a smartphone, New Mexico State University, January 2019 – May 2019
29. Faculty advisor/co-advisor for two Capstone projects. One was sponsored by General Dynamics (4 students), while the other competed in the NMSU WERC design contest (8 students), New Mexico State University, September 2018 – May 2019
30. LANL & Sandia Memorandums of Understanding committee, New Mexico State University, November 2018 – Jan 2019
31. Ad hoc committee for new degree programs, Computer Engineering and Cyberphysical Systems, New Mexico State University, August 2018 – August 2019
32. New Mexico State University, College of Engineering Distinguished Lecture Series Organizing Committee member, August 2017 – May 2018
33. Judge at the New Mexico Science & Engineering Fair, New Mexico Tech University, Socorro, NM, April 2017 & 2018
34. Faculty Speaker for the New Mexico State University, College of Engineering Ambassadors Training/Retreat, August 2018
35. Faculty volunteer for the Boy Scouts University Badge, New Mexico State University, Spring 2018
36. Faculty volunteer for the NM PREP Academy, New Mexico State University, Summer 2017. Designed a module on Arduino programming for High School students.
37. Judge at the Southwest New Mexico Regional Science and Engineering Fair, New Mexico State University, Las Cruces, NM, March 2017 & 2018
38. Aggies Innovation Space Board of Advisors member, New Mexico State University, January 2017 –
39. Faculty Search Committee member, Klipsch School of Electrical and Computer Engineering, New Mexico State University, September 2016 – April 2018

PROFESSIONAL SERVICE

Grant Review(s) & Panels

1. National Science Foundation (NSF), [Secure and Trustworthy Cyberspace \(SaTC\)](#), December 2024 [**Panelist**]
2. National Science Foundation (NSF), [Directorate for Computer and Information Science and Engineering \(CISE\)](#), [Office of Advanced Cyberinfrastructure \(CISE/OAC\)](#), October 2024 [**Panelist**]
3. External Evaluator, Promotion and Tenure case, University of Missouri, Saint Louis, August, 2024
4. Panelist at the 2024 Workshop on Modeling & Simulation of Systems and Applications (ModSim'24), "Panel: Computer Architecture & Sustainability", Seattle, WA, August 2024
5. Panelist at the [40th Anniversary - Former IPCCC Chairs Panel Session](#), Austin, TX, November 2022

6. Panelist at the 2022 Workshop on Modeling & Simulation of Systems and Applications (ModSim'22), "Panel: Simulators & Simulation", Seattle, WA, August 2022
7. Panelist at the IEEE Senior Member Panel Meeting, Feb. 2022, Sept. 2023, and November 2023
8. Ministry of Information and Communications Technology, Egypt, [ITAC preliminary research projects \(PRP\)](#), December 2021
9. Department of Energy (DOE), Office of Science (SC), Fusion Energy Sciences, [Scientific Discovery through Advanced Computing \(SciDAC\)](#) program, May 2021

Above this post-tenure

10. National Science Foundation (NSF) [2020 Improving Undergraduate STEM Education: Education and Human Resources \(IUSE: EHR\)](#), Engaged Student Learning and Institutional and Community Transformation Level 1 (NSF 19-601), April 2020 [**Panelist**]
11. National Science Foundation (NSF) [2017 Computing and Communication Foundations \(CCF\): Core Programs](#) (NSF 17-571), December 2017 [**Panelist**]
12. National Science Foundation (NSF) [2016 Graduate Research Fellowship Program \(GRFP\)](#), January 2016 [**Panelist**]
13. Cyberinfrastructure Research Panelist, Panel held at the annual New Mexico Technology in Education (NMTIE) Conference, organized by [New Mexico Science, Education & Economic Development Network \(NMSeed\)](#), November 2016

Editorial Board(s)

1. [Associate Editor for Communication and Computing](#), *Journal of Engineering and Applied Science* [0.250 - SNIP (Source Normalized Impact per Paper), 0.157 - SJR (SCImago Journal Rank)], Spring 2024 –
2. [Section Editor for the "Architectures, Systems and Hardware Security" Section](#), *The Journal of Supercomputing*, Springer [ISI Impact Factor 3.3], Fall 2023 –
3. Review Editor, *Frontiers High-Performance Computing in HPC Applications* (specialty section of *Frontiers in High-Performance Computing*), Frontiers, April 2023 –
4. Editorial Board Member for [Discover Internet of Things \(Discover IoT\)](#), Elsevier, January 2022 –

Above this post-tenure

5. Guest Editor to a special issue on Optical Computing in the *Nanophotonics Journal* by De Gruyter, June 2016
6. Editorial Board Member for the *International Journal of Computing and Digital Systems (IJCDS)*, 2015 –
7. *International Journal of Biomedical Science and Engineering (IJBSE)*, Science Publishing Group (SciencePG), 2015
8. Guest Associate editor for the *Journal of Learning*, August 2010

Conference Organizing Committee(s)

1. Technical Program Committee Chair, [The IEEE International Conference on Memory Systems \(MemSys'2025\)](#), Washington, DC, October 2025
2. Technical Program Committee co-Chair, [The IEEE International Conference on Memory Systems \(MemSys'2024\)](#), Washington, DC, October 2024
3. Technical Program Committee co-Chair, [The IEEE International Conference on Memory Systems \(MemSys'2024\)](#), Washington, DC, October 2024
4. Session Chair, [The IEEE International Conference on Memory Systems \(MemSys'2024\)](#), Washington, DC, 2024

5. Invited Session Chair, The 5th IEEE Conference on Quantum Computing and Engineering (QCE24), Montréal, Québec, Canada, September 2024
6. Session Chair, The 6th ACM/IEEE International Symposium on Machine Learning for CAD (MLCAD), Snowbird, UT, September 2024
7. Session Chair, [The IEEE International Conference on Memory Systems \(MemSys'2023\)](#), Washington, DC, October 2023

Above this post-tenure

8. Executive Committee Member, Workshops Co-chair, and Workshops Sessions Chair, IEEE International Performance Computing and Communications Conference (IPCCC'18, IPCCC'19)
9. Industrial Session Chair, [The 29th IEEE/ACM International Conference for High Performance Computing, Networking, Storage, and Analysis \(SC'17\)](#), November 2017, Denver, CO
10. Session Chair, The 14th IEEE International Conference on Advanced and Trusted Computing (ATC), San Francisco, CA, August 2017
11. Session Chair, The 17th IEEE International Conference on Scalable Computing and Communications (ScalCom), San Francisco, CA, August 2017
12. Session Chair, Symposium on Education (CSCI-ISED), Las Vegas, NV, December 2016
13. Session Chair, Symposium on Parallel and Distributed Computing and Computational Science (CSCI-ISPD), Las Vegas, NV, December 2016.
14. Publications Chair, The 9th IEEE Partitioned Global Address Space (PGAS 2015), Washington, DC, Sept. 2015
15. Session Chair at the [IEEE 43rd Annual IEEE Frontiers in Education Conference \(FIE'13\)](#), Oklahoma City, OK, Oct. 2013
16. Core Committee member for the Science and Information (SAI 2013) Conference London, UK 2013
17. Poster Session Judge, Annual Lilly-DC Conference on College & University Teaching, Bethesda, MD, June 2012
18. Session Convener, the 6th Annual Innovation in Teaching and Learning (ITL 2012) Conference, University of Maryland, College Park, MD, April 2012

Conference Technical Program Committee Member

1. [5th IEEE Middle East & North Africa Communications Conference \(MENACOMM 2025\)](#): Breaking Boundaries: Pioneering the Next Era of Communication. Hybrid conference held from 20-22 February 2025 at the Lebanese American University (LAU) in Byblos, Lebanon
2. [The IEEE High Performance Extreme Computing Conference \(HPEC\)](#), 2020–2025, held virtually
3. Program Committee Member for the undergraduate ACM SRC program at the International Conference for High Performance Computing, Networking, Storage, and Analysis (SC'24), which will be held in Atlanta, GA, USA, November 17-22, 2024
4. Program Committee Member for the graduate ACM SRC Research Posters at the International Conference for High Performance Computing, Networking, Storage, and Analysis (SC'24), which will be held in Atlanta, GA, USA, November 17-22, 2024
5. [The 29th IEEE International Conference on Parallel and Distributed Systems \(ICPADS'23\)](#), December 2023, Ocean Flower Island, Hainan, China
6. [The 22nd IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing \(CCGrid\)](#), May 2022, Taormina (Messina), Italy

7. [36th IEEE Parallel & Distributed Processing Symposium \(IPDPS\)](#), May 2022, Ecole Normale Supérieure de Lyon, Lyon, France

Above this post-tenure

8. [19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing \(CCGRID\)](#), May 2019, Larnaca, Cypress
9. [The 30th IEEE/ACM International Conference for High Performance Computing, Networking, Storage, and Analysis \(SC'18\)](#), November 2018, Dallas, TX
10. [The IEEE High Performance Extreme Computing Conference \(HPEC\)](#), 2018–2019, Waltham, MA
11. [The 47th International Conference on Parallel Processing \(ICPP'18\)](#), August 2018, Eugene, OR
12. [IEEE 18th IEEE International Conference on Scalable Computing and Communications \(ScalCom'18\)](#), 2018, Guangzhou, China
13. [4th International Conference on Memory Systems \(MemSys\)](#), 2018–2023, Washington, DC, USA
14. [32nd IEEE International Parallel & Distributed Processing Symposium \(IPDPS\)](#), May 2018, Vancouver, British Columbia, Canada
15. [18th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing \(CCGRID\)](#), May 2018, Washington DC
16. [International Conference on Computer Intelligent Systems & Networking \(ICCISN\)](#), 2018, Dubai, UAE
17. [4th National Workshop for REU Research in Networking and Systems](#), Orlando, FL, October 2017, co-located with [14th IEEE International Conference on Mobile Ad-hoc Sensor Systems \(IEEE MASS 2017\)](#)
18. [IEEE 17th IEEE International Conference on Scalable Computing and Communications \(ScalCom'17\)](#), San Francisco, CA
19. [IEEE Annual Computing and Communication Workshop and Conference \(CCWC'16, CCWC'17, CCWC'18, CCWC'19\)](#), Las Vegas, NV
20. [3rd National Workshop for REU Research in Networking and Systems \(REUNS\)](#), co-located with the [International Conference on Computing, Networking and Communications \(ICNC 2017\)](#), Silicon Valley, CA, USA, 2017
21. [International Conference on Emerging Electronic Solutions for IoT \(ICEESI 2017\)](#)
22. [International Symposium on Cloud Computing and Cybersecurity \(SCCCS-17\)](#)
23. [World Symposium on Computer Applications & Research \(WSCAR\)](#), 2017
24. [3rd International Conference on Education](#)
25. [17th Asia Simulation Conference \(AsiaSim 2017\)](#)
26. [Recent Developments in Control, Automation and Power Engineering \(RDCAPE 2017\)](#), Amit University, India, 2017
27. [International Workshop on Cyber-Security in IoT-based Healthcare Systems & Cloud Computing \(CS-HSC 2017\)](#) in conjunction with the [14th International Conference on Mobile Systems and Pervasive Computing \(MobiSPC 2017\)](#)
28. [Third International Symposium on Intelligent Systems Technologies and Applications \(ISTA 2017\)](#)
29. [IEEE 9th GCC Conference & Exhibition](#), Manama, Bahrain, (GCC 2017)
30. [International conference on Architectural Research & Computer-Aided Design \(ICARCAD 2017\)](#)
31. [International Conference on Art, Business, Education and Social Sciences](#), Malaysia, 2017
32. [3rd International Conference on Education \(ICOED'17\)](#), Malaysia, 2017

33. The International Conference on Electrical, Electronic, Communication and Control Engineering (ICEECC 2016), Malaysia, 2016
34. 8th International Conference on University Learning and Teaching (InCULT'16)
35. International Conference on Electrical, Electronic, Communication and Control Engineering (ICEECC 2016)
36. IEEE Industrial Electronics and Applications Conference (IEACon 2016)
37. IEEE International Symposium on Signal Processing and Information Technology, (ISSPIT 2015, 2016)
38. International Conference on Computer Applications & Technology (ICCAT 2015, 2016)
39. [The International Symposium on Computer Vision and the Internet](#) (VisionNet 2015, 2016, 2017)
40. International Workshop on the Design and Performance of Networks on Chip (DPNoC 2015, 2016), [FNC 2015](#), FNC 2016
41. Shadow Program Committee member and Reviewer for The European Conference on Computer Systems (EuroSys15), Bordeaux, France
42. International Conference on Computer Vision and Image Analysis applications (ICCVIA 2015, 2016, 2017)
43. International Biometrics & Smart Government Summit (IBMSGs 2015), January 2015, Sousse, Tunisia
44. IEEE Symposium on Industrial Electronics & Applications (ISIEA 2014), October 2014, Kota Kinabalu, Sabah, Malaysia
45. International Symposium on Web of Things and Big Data: [(WoTBD 2014), [WoTBD 2015](#), (WoTBD 2016), (WoTBD 2017)]
46. International Workshop on Mobile Applications: [(MobiApps 2014, 2015, 2016)] in conjunction with [MobiWIS 2014](#), [MobiWIS 2015](#) and [MobiWIS 2016](#)
47. IEEE Technically co-sponsored [Science and Information \(SAI\) Conference](#) 2013, 2014
48. [International Conference on Electronic Publishing and Information Technology](#) (ICEPIT 2014), University of Bahrain, Bahrain, April 2014
49. IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE 2014), Penang, Malaysia, *April* 2014
50. IEEE Frontiers in Education Conference: [[2013](#), [2014](#), [2015](#), [2016](#)]
51. [International Conference on Software Technology and Engineering](#) (ICSTE) 2012, 2013
52. 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), China, August 2011

Journal/Book Reviewer

1. [Wiley Advanced Quantum Technologies](#) [2024 –] [Impact Factor: 4.4]
2. [Elsevier Computers & Security](#) [2024 –] [Impact Factor: 5.6]
3. [Elsevier Journal of Systems Architecture](#) (JSA) [2024 –] [Impact Factor: 4.5]
4. [IEEE Transactions on Computers](#) (TOCs) [2023 –] [Impact Factor: 3.7]
5. [MDPI Journal of Low Power Electronics and Applications](#) (JLPEA) [2023 –] [Impact Factor: 2.1]
6. [Microprocessors and Microsystems](#) (MICPRO) [2019 –] [Impact Factor: 2.6]
7. [MDPI Electronics](#) [2018 –] [Impact Factor: 2.9]
8. [MDPI Sensors](#) [2018 –] [Impact Factor: 3.031]

9. [Journal of Digital Imaging \(JDI\) Society of Imaging Informatics in Medicine \(SIIM\)](#) [2010 –] [Impact Factor: 4.056]

Above this post-tenure

10. [Elsevier Computer and Electrical Engineering \(CEE\)](#) [2020 –] [Impact Factor: 4.3]
11. [MDPI Computers](#) [2018 –] [Impact Factor: 2.8]
12. [Springer Supercomputing Journal](#) [2018 –] [Impact Factor: 3.3]
13. [Elsevier Future Generation Computer Systems Journal \(FGCS\)](#) [2017 –] [Impact Factor: 7.187]
14. [ACM Transactions on Modeling and Performance Evaluation of Computing Systems \(ToMPECS\)](#) [2017] [Impact Factor: 0.6]
15. [Elsevier Journal of Parallel and Distributed Computing \(JPDC\)](#) [2015 –] [Impact Factor: 4.542]
16. [Concurrency and Computation: Practice & Experience](#), John Wiley and Sons. [2016 –] [Impact Factor: 2]
17. [IEEE Computer Magazine](#), Special issue on Energy Efficient Computing [2016] [Impact Factor: 2.256]
18. [Elsevier Journal of King Saud University: Engineering Sciences](#) [2015] [Impact Factor: 4.88]
19. [International Journal of Computing and Digital Systems](#) [2013] [Impact Factor: 1.7]
20. WSEAS (World Scientific and Engineering Academy and Society) Conferences and Journals [2015]
21. [International Journal of Biomedical Science and Engineering \(IJBSE\)](#), Science Publishing Group (SciencePG) [2014, 2015]
22. Awards Committee member for IJACSA, nominating Papers for the Best Paper Award [2014]
23. [World Journal of Engineering and Physical Sciences \(WJEPS\)](#) [2013]
24. [NED University Journal of Research](#) [2012]
25. Books published by Common Ground Publishing [2012]
26. [International Journal of New Computer Architectures and their Applications \(IJNCAA\)](#) [2012]
27. [International Journal of Advanced Computer Science and Applications \(IJACSA\)](#) [2012]
28. [International Journal of Computer and Electrical Engineering \(IJCEE\)](#) since 2011

Conference Reviewer

1. External Review Committee member for the IEEE/ACM International Symposium on Microarchitecture (MICRO-54), Athens, Greece, June 2021

Above this post-tenure

2. External Review Committee member for the 33rd International Symposium on Performance Analysis of Systems and Software (ISPASS'20), Boston, MA, April 2020
3. External Review Committee member for the 33rd International Conference on Supercomputing (ICS'19), held in conjunction with the Federated Computing Research Conference (FCRC), Phoenix, AZ, June 2019
4. 15th International Conference on Applications of Computer Engineering (ACE'16), Mallorca, Spain, August 2016
5. ACM Special Interest Group Computer Science Education (SIGCSE) 2013 – 2016
6. IEEE Symposium on Industrial Electronics & Applications (ISIEA 2014), Kota Kinabalu, Sabah, Malaysia, October 2014
7. [IEEE Technically Co-Sponsored Science and Information \(SAI 2014\) Conference](#) 2014

8. [Consortium of Computer Science in Colleges](#) (CCSC) regional conferences: [South-West](#) [2013, 2014], [South-Central](#) [2013], and [North-East](#) (CCSC-NE) [2013]
9. 3rd International Conference on Machine Learning and Computing (ICMLC 2011), Singapore, February 2011

MEMBERSHIPS

1. Senior Member IEEE since September 2015, Member IEEE Computer Society
2. Professional ACM member since 2014
3. Regular Member ASEE, 2018
4. Dean's Member of the ASEE, Fall 2015
5. Vice President of the IEEE Arkansas River Valley Section, Spring 2014 – Spring 2015, Spring 2016 – Fall 2016
6. Student Activities Chair of the IEEE Arkansas River Valley Section, Spring 2015 – Fall 2016
7. Senior Member, [International Association of Computer Science and Information Technology](#) (IACSIT), June 2013
8. Member, [Science and Engineering Institute](#) (SCIEI), November 2011
9. Member, [Society of Digital Information and Wireless Communications](#) (SDIWC), October 2012
10. IEEE, IEEE Computer Society, ACM since 1998
11. Graduate Student member of the Undergraduate Affairs Committee, 2001 – 2004: Worked with Faculty on the re-accreditation requirements of [ABET](#) for the Electrical and Computer Engineering Department, University of Maryland, College Park, MD

TRAINING & CERTIFICATION PROGRAMS

1. [NMSU Online Course Improvement Program \(OCIP\)](#) [Course Development Institute \(CDI\)](#): Pathway to a Quality Matters (QM) Internal Review. **September 2017 – June 2018 [EE 564] & September 2018 – June 2019 [EE 562]**
2. [Institutional Review Board, Collaborative Institutional Training Initiative](#) (CITI). Ethical Conduct of Research for Investigators and staff involved primarily in Social & Behavioral Research with human subjects, **June 2017, June 2020**
3. [Institutional Review Board, Collaborative Institutional Training Initiative](#) (CITI). Basic/Refresher Curriculum for Investigators and staff involved primarily in Social & Behavioral Research with human subjects **June 2017, June 2020**
4. [NMSU Online Course Improvement Program \(OCIP\)](#) [New2Online \(N2O\)](#): A Professional Development Program to enhance the quality of online courses **September 2016 – June 2017**
5. [eTech Online Certification Program](#): A certification program to prepare Faculty to offer online courses at Arkansas Tech University **November 2013**
6. [Institutional Review Board, Collaborative Institutional Training Initiative](#) (CITI). Basic/Refresher Curriculum for Investigators and staff involved primarily in Social & Behavioral Research with human subjects **January 2012**
7. *Summer Intern*, [Scientific Computing Center](#), Mansoura University, **June 1995 - August 1995**
8. *Summer Intern* at [The Urology & Nephrology Center](#), [Mansoura University](#), **June 1994 - August 1994**

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JENNIFER LYNN MARTIN, PHD

VA Greater Los Angeles Healthcare System, Geriatric Research, Education and Clinical Center
David Geffen School of Medicine at the University of California, Los Angeles

EDUCATION

University of California, San Diego	Psychology	BA with Honors	1995
San Diego State University/ University of California, San Diego	Joint Doctoral Program in Clinical Psychology	PhD	2002

INTERNSHIP

Brown University	Clinical Psychology Internship	2002
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POST-DOCTORAL TRAINING

University of California, Los Angeles, Department of Medicine	Geriatrics	2002-04
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CERTIFICATIONS

Licensed Clinical Psychologist, California	License #PSY20950
Behavioral Sleep Medicine Specialist, American Board of Sleep Medicine	Certificate #102
Diplomate, American Board of Behavioral Sleep Medicine	Certificate# 20191200075

CURRENT POSITIONS

2007-	Research Health Scientist, VA Greater Los Angeles Healthcare System, Geriatric Research, Education and Clinical Center
2007-	Psychologist (WOC), Veterans Administration Greater Los Angeles Healthcare System
2014-	VA Greater Los Angeles Healthcare System, Health Services Research and Development Center of Innovation (COIN) Core Investigator
2017-	Associate Director for Clinical and Health Services Research, VA Greater Los Angeles Healthcare System, Geriatric Research, Education and Clinical Center
2019-	Professor of Medicine, David Geffen School of Medicine at the University of California, Los Angeles, Department of Medicine (in residence, 2023)

RESEARCH EXPERIENCE

1993-1996	Research Assistant, Department of Psychiatry, University of California San Diego
1996-2001	Graduate Research Assistant, Department of Psychiatry, University of California, San Diego (Advisor: Sonia Ancoli-Israel, PhD)
2001-2002	Psychology Intern Researcher, Bradley Hospital Sleep Laboratory, Department of Psychiatry and Human Behavior, Brown University (Advisor: Mary Carskadon, PhD)
2002-2004	Post-graduate researcher, Department of Medicine. University of California, Los Angeles (Advisor: Cathy A. Alessi, MD)
2003-2007	Research Health Scientist, VA Greater Los Angeles Healthcare System, Sepulveda Ambulatory Care Center and Nursing Home. North Hills, California

- 2004-2007 Assistant Research Psychologist, David Geffen School of Medicine at the University of California, Los Angeles, Department of Medicine
- 2007-2013 Assistant Professor, David Geffen School of Medicine at the University of California, Los Angeles, Department of Medicine
- 2013-2019 Associate Professor, David Geffen School of Medicine at the University of California, Los Angeles, Department of Medicine

CLINICAL EXPERIENCE

- 1997-2000 Student Therapist: VA San Diego Healthcare System, San Diego State University Psychology Clinic, The Scripps Research Institute, Pacific Sleep Medicine
- 2001-2002 Psychology Intern, Brown University Psychology Internship Consortium
- 2002-2005 Post-doctoral fellow, University of California, Los Angeles, Neuropsychiatric Institute and Clinic
- 2003-2006 Psychology fellow, VA Sepulveda Ambulatory Care Center and Nursing Home
- 2012-2020 Private Practice Psychologist, Pasadena, CA
- 2007-pres Psychologist (WOC) VA Sepulveda Ambulatory Care Center and Nursing Home

HONORS AND AWARDS

- 1990 and '91 Italian Catholic Federation Undergraduate Scholarship Award
- 1991, '92, '94, '95 University of California, San Diego Provost's Honors
- 1993, '94, '95 Swiss Benevolent Society Undergraduate Scholarship Award,
- 1993, '95-2002 Sleep Research Society Trainee Travel Award
- 1994 Stein Institute for Research on Aging Research Endowment
- 1998 Light Symposium Foundation "Biologic Effects of Light" Travel Award
- 2000 Association for Women in Science Educational Foundation Award, Honorable Mention
- 2001 Brown University Clinical Psychology Internship Consortium Research Award
- 2003 Gerontological Society of America, Clinical Medicine Research Award
- 2005 American Geriatrics Society, Presidential Poster Award for Epidemiology
- 2008 American Academy of Sleep Medicine, Insomnia Section Investigator Award
- 2011 Sleep Research Society, Distinguished Service Award
- 2015 American Academy of Sleep Medicine, Fellow membership status
- 2019 American Academy of Sleep Medicine, Service Award
- 2022 American Academy of Sleep Medicine Foundation, Service Award
- 2024 UCLA Frisca I. Yan-Go, MD Lectureship in Sleep Medicine
- 2024 American Academy of Sleep Medicine, Service Award

GRANTS AND RESEARCH FUNDING

- University of California, San Diego School of Medicine "Alternative therapies for the treatment of chronic insomnia in the elderly. The effects of green light and the Natural Sleep Training System in older sleep-onset insomniacs."
Role on Project: PI
Funding period: October 1997 - October 1998 Total direct costs: \$20,000
- University of California, San Diego Geriatric Psychiatry Clinical Research Center Pilot Study Grant.
"Circadian sleep/wake patterns in older schizophrenia patients: A comparison of the effects of typical and atypical neuroleptic medications."
Role on project: Co-Investigator (PI: Sonia Ancoli-Israel, PhD)
Funding period: November 1997 - November 1998 Total direct costs: \$5,000

Foundation for Sleep Disorders Research Dissertation Grant. "Circadian sleep/wake patterns in older schizophrenia patients and age-matched controls"
Role on project: Award Recipient
Funding period: September 2000 - June 2001 Total direct costs: \$10,000

Veterans Administration Health Services Research and Development Service. Associate Investigator Award (AIA 03-047)
Role on Project: Award Recipient
Funding period: June 2003-May 2005. Total costs: Full-time salary support

UCLA Claude Pepper Older Americans Independence Center, National Institute on Aging (AG-10415). Career Development Award. "Changing caregiving practices to improve nursing home resident sleep: intervention development."
Role on project: PI
Funding period: July 2004-September 2007 Total direct costs: \$75,000

Veterans Administration Health Services Research and Development. Locally Initiated Project. "Association between provider caregiving practices and sleep in nursing home residents"
Role on project: PI
Funding period: October 2003-September 2005 Total direct costs: \$4,000

UCLA Claude Pepper Older Americans Independence Center, National Institute on Aging (AG-10415). Pilot Grant. "The relationship between sleep and inflammatory markers among older adults undergoing post-acute rehabilitation"
Role on project: PI
Funding period: September 2005- June 2006 Total direct costs: \$20,000

Veterans Administration Health Services Research and Development Service. Merit Review (IIR 04-321-2). "Non-pharmacological interventions on sleep in post-acute rehabilitation."
Role on project: Co-Investigator (PI: Cathy A. Alessi, MD)
Funding period: 7/1/2006-9/30/2010 Total direct costs: \$851,195

National Institutes of Health, National Institute on Aging. K-23 Mentored Patient Oriented Research Career Development Award (K23 AG028452). "Sleep-related predictors of function and health among vulnerable older people."
Role on project: PI
Funding period: 7/1/2007-6/30/2011 Total direct costs: \$375,000

National Institutes of Health, National Institute on Aging. Clinical Research Loan Repayment Program (L30 AG032916) "Sleep and Health in Vulnerable Older People"
Funding period: 7/1/2008-6/30/2011 Total award: \$30,000
Role on project: PI/Award recipient

Veterans Administration Health Services Research and Development. Merit Review (IIR 08-295-1) "Implementing Sleep Interventions for Older Veterans"
Funding period: 7/1/2009-9/30/2013 Total direct costs: \$1,049,900
Role on project: Co-investigator (PI: Cathy A. Alessi, MD)

Veterans Administration Rehabilitation Research and Development. Merit Review (1RX000135-01) "Treating sleep problems in VA Adult Day Health Care"
Funding period: 1/1/2010-6/30/2014 Total direct costs: \$595,800
Role on Project: PI

National Institutes of Health, National Institute on Aging (1R01AG034588-01) "Subjective social isolation and sleep disturbances: inflammatory mechanisms in aging"
Funding period: 09/01/09-06/30/14 Total direct costs: \$1,306,735
Role on Project: Co-I

Veterans Administration Health Services Research and Development. Merit Review Pilot Project Program (PPO 09-239-1) "Treatment of insomnia in older veterans: identifying obstacles to best practices"
Funding period: 6/1/2010-5/30/2011 Total direct costs: \$100,000

Role on project: Co-investigator (PI: Cathy Alessi)
UCLA Claude Pepper Older Americans Independence Center, National Institute on Aging (AG-10415).
Rapid Grants Program "Inflammatory markers, daytime sleeping and functional recovery among
older adults in post-acute rehabilitation"
Role on project: PI
Funding period: 4/27/2010-6/30/2010 Total direct costs: \$9,000
Veterans Administration Health Services Research and Development. Merit Review Pilot Project
Program (PPO 09-282-1) "Women veterans with insomnia: characteristics and treatment
preferences"
Role on project: PI
Funding period: 11/1/2010-10/31/2011 Total direct costs: \$99,980
Veterans Administration Quality Enhancement Research Initiative (QUERI) Rapid Response Project
(RRP 12-189) "Characteristics and treatment preferences of women veterans with insomnia"
Funding period: Total direct costs: \$139,340
Role on project: PI
Veterans Administration Health Services Research and Development. Locally Initiated Project (LIP 65-
038) "A patient-focused approach to insomnia treatment for women veterans: pilot study"
Role on Project: PI
Funding period: 3/1/2013-9/30/2013 Total direct costs: \$11,800
VA Health Services Research and Development. Merit Review (IIR 12-353-2) "Novel treatment of
comorbid insomnia and sleep apnea in older veterans"
Role on Project: Co-I
Funding period: 2/1/2014-1/31/2018 Total direct costs: \$1,092,620
National Institute on Aging/American Federation for Aging Research. Paul B. Beeson Patient-Oriented
Research Career Development Award in Aging (K76 AG13-012)
"Improving older adults' decision making for obstructive sleep apnea treatment"
Role on project: Co-mentor (PI: Constance H. Fung)
Funding period: 09/01/2013-05/31/2019 Total direct costs: \$778,112
Sleep Research Society Foundation Early Career Development Research Award. "Long-term clinical
outcomes of hypersomnia in at-risk older adults"
Role on project: Co-I (PI: Joseph Dzierzewski)
Funding period: 11/30/2014-11/29/2015 Total direct costs: \$50,000
National Institute on Aging/University of California, Los Angeles Claude Pepper Older Americans
Independence Center (5P30AG028748; PI: Reuben; UL1TR000124 UCLA CTSI NIH/NCATS)
"Cognitive response to improved sleep in late life: the role of inflammation"
Role on project: Mentor (PI: Joseph Dzierzewski)
Funding period: 7/1/13-6/30/16 Total direct costs: \$225,000
VA Health Services Research and Development. Merit Review (IIR 13-058)
"A patient-focused approach to insomnia treatment for women veterans"
Role on Project: PI
Funding period: 3/1/2014-8/31/2018 Total direct costs: \$1,172,685
American Sleep Medicine Foundation Strategic Research Award "Wrist actigraphy in the assessment of
hypersomnia"
Role on Project: PI Total direct costs: \$97,975
Funding period: 10/2/2014-04/01/2017
VA Health Services Research and Development, Center for the Study of Healthcare Innovation,
Implementation & Policy, Locally Initiated Project (LIP 65-154). "Sleep and caregiving experience
among adult day health care program caregivers: a pilot study"
Role on Project: Co-I (PI: Yeonsu Song) Total direct costs: \$13,948
Funding period: 1/1/2015-9/30/2015

- VA Health Services Research and Development Service, Center for the Study of Healthcare Innovation, Implementation & Policy Locally Initiated Project (LIP 65-155). "How adherent to positive airway pressure equipment are older Veterans with sleep apnea and unmet "human factors" needs?"
Role on Project: Co-I (PI: Constance Fung) Total direct costs: \$10,300
Funding period: 12/01/2014-9/30/2015
- NIH/National Center for Advanced Translational Science (NCATS) UCLA UL1TR000124: UCLA Clinical and Translational Science Institute (CTSI) KL2 Translational Science Career Development Award.
"A MICU Sleep Promotion Intervention Using Actigraphic Outcome Assessment."
Role on Project: Co-mentor Total direct costs: \$374,250
Funding period: 7/1/2015-6/30/2018
- VA Health Services Research and Development Service, Center for the Study of Healthcare Innovation, Implementation & Policy Locally Initiated Project (LIP 65-161). "Sleep apnea in women veterans: presenting symptoms and comorbid conditions."
Role on Project: PI Total direct costs: \$9,964
Funding period: 6/1/2016-9/30/2016
- VA Rehabilitation Research and Development Service, Merit Review (1RX002116) "Does Treatment of Sleep-Disordered Breathing Improve Functional Outcomes in SCI?"
Role on Project: Co-I (PI: M. Safwan Badr) Total direct costs: \$893,750
Funding period: 1/1/2017-3/28/2020
- NIH/NIA Mentored Patient-Oriented Research Career Development Award (1K23AG049955-01A1)
"Cognitive and inflammatory consequences of sleep disorders in older adults."
Role on Project: Primary Mentor (PI: Dzierzewski) Total direct costs: \$625,000
Funding period: 07/1/2016 – 06/30/2022
- VA Health Services Research and Development Service, Center for the Study of Healthcare Innovation, Implementation & Policy Locally Initiated Project (LIP 65-166). "Characterizing Alcohol Use Among Women Veterans with Insomnia."
Role on Project: Co-I (PI: C. Amanda Schweizer, PhD) Total direct costs: \$5,819
Funding period: 6/1/2017-9/30/2017
- NIH/NIA Mentored Patient-oriented research career development award (K23 AG055668)
"A dyadic sleep intervention for Alzheimer's Disease patients and their caregivers"
Role on Project: Primary mentor (PI: Yeonsu Song) Total direct costs: \$912,698
Funding period: 04/01/2017-04/30/2023
- NIH/NINR (R01 NR016461 Chodosh (PI))
"Improving Sleep Using Mentored Behavioral and Environmental Restructuring (SLUMBER)"
Role on project: Co-Investigator (UCLA Site PI)
Funding period: 09/14/2017-07/31/2021 Total direct costs: \$1,440,230
(UCLA subaward direct costs: \$524,723)
- VA Health Services Research and Development Service Merit Review (IIR 16-244)
"Diagnosis and treatment of sleep apnea in women Veterans"
Role on Project: PI
Funding period: 02/01/2018-09/30/2022 Total direct costs: \$1,097,529
- NIH/NHLBI (K24HL143055)
"Sleep Health in Special Populations"
Role on project: PI
Funding period: 08/01/2018-07/31/2028 Total direct costs: \$1,158,380
- NIH/NIA (K76 AG059936)
"Multicomponent intervention to improve delirium and sleep-wake rhythms in older ICU patients"
Role on project: Primary Mentor (PI: Kamdar) Total direct costs: \$1,215,000
Funding period: 8/1/2018-7/31/2024
- VA HSR&D (IIR 17-234 Fung (PI))
"The Efficacy of Masked Tapering on Discontinuation of Hypnotics in Older Veterans"

Role on project: Co-Investigator
Funding period: 09/01/2018-08/31/2023 Total direct costs: \$1,098,456
NIH/NIA (R01AG057929 Fung (PI))
“A novel mechanism for helping older adults discontinue use of sleeping pills”
Role on project: Co-investigator
Funding period: 09/15/2018-05/31/2024 Total direct costs: \$2,397,256
NIH/NINR (R01NR018342; PI: Nowakowski)
“SleepHab: Effectiveness of Healthy Sleep Habits for Hospitalized Older Adults to Optimize Rehabilitation”
Role on project: Co-Investigator (UCLA site PI)
Funding period: 02/21/2019-11/30/2024 Total direct costs: \$1,663,264
NIH/NHLBI (R01 HL146059; MPI: Badr/Martin)
“Improving outcomes for patients with SDB and insufficient sleep”
Role on project: MPI
Funding period: 09/04/2019-8/30/2024 Total direct costs: \$2,473,552
VA CSRD (IIR CX 001944; PI: Badr)
“Central Sleep Apnea: Physiologic Mechanisms to Inform Treatment”
Role: Co-I
Funding period: 12/01/2019-11/30/2025 Total direct costs: \$1,200,000
VA HSRD (RCS 20-191; PI: Martin)
“HSR&D Research Career Scientist Award”
Role: Award Recipient/PI
Funding period: 07/01/2020-06/30/2025 Total direct costs: \$1,047,470
VA HSRD (HX 003321; PI: Alessi)
“Addressing insufficient positive airway pressure use among older Veterans with obstructive sleep apnea”
Role: Co-I
Funding Period: 07/01/2021-09/30/2025 Total direct costs: \$1,098,000
VA HSRD (IIR 20-283; PI: Martin)
“A Novel Acceptance-based Treatment for Insomnia in Veterans with Post-Traumatic Stress Disorder”
Role: PI
Funding period: 01/01/2022-12/31/2026 Total direct costs: \$1,268,000
NIH/NHLBI (K23 HL157754; PI: Kelly)
“Insomnia Treatment and Cardiometabolic Health in Older Adults with Posttraumatic Stress Disorder”
Role: Primary mentor
Funding period: 04/01/2022-03/31/2027 Total direct costs: \$986,474
VA HSRD (CDA IK2 HX003332; PI: Carlson)
“Increasing PTSD Treatment Engagement in Women Veterans: Role of CBT for Insomnia”
Role: Primary mentor
Funding Period: 01/01/2023-12/31/2027 Total direct costs: \$704,843
NIH/NIA (R01 AG076756; PI: Song)
“A Dyadic Approach to Improve Sleep and Well-Being Among Persons with Alzheimer's Disease and Their Caregivers”
Role: Co-investigator
Funding period: 06/01/2023-05/31/2027 Total direct costs: \$2,885,000
NIH/NIA (R01 AG082651; PI: Harvey)
“Improving sleep and circadian functioning, daytime functioning, and well-being for midlife and older adults by improving patient memory for a transdiagnostic sleep and circadian treatment”
Role: Co-investigator (UCLA site PI)

Funding period: 8/1/2023-4/1/2028	Total direct costs: \$2,097,395
NIH/NIA (R01AG083477, PI: Fung)	
"A multi-center trial to improve nocturia and sleep in older adults"	
Role: Co-Investigator	
Funding period: 9/1/2023-8/31/2027	Total direct costs: \$2,764,352
NIH/NHLBI (1R01HL177106; MPI: VonDongen, Liu)	
"Sleep loss and circadian misalignment - mechanisms of Insulin Resistance"	
Role: Co-investigator	
Funding period: Pending	Total direct costs: \$1,997,193

PROFESSIONAL AFFILIATIONS

Sleep Research Society, student member 1994-2004; member 2005-present
American Psychological Association, student affiliate, 1996-2002; member, 2003-present
American Academy of Sleep Medicine, member 2004-present; Fellow 2015-present
Society for Behavioral Sleep Medicine 2010-present (founding member)
American Thoracic Society, member 2012-present

PROFESSIONAL APPOINTMENTS AND COMMITTEES

2001-02 Brown University Department of Psychiatry and Human Behavior, Training Committee,
Psychology Intern Representative
2001-02 Sleep Research Society Trainee Day Program Committee Member
2002 National Institute of Mental Health/Sleep Research Society/Society for Research on
Biological Rhythms "Circadian Rhythms and Sleep; Views to the Future" Trainee Workshop
Committee Member
2002-03 Trainee Representative to the Sleep Research Society Board of Directors
2004 Organizing Committee, VA Employee Education System, Course# 04.GERLDR.A, "Meeting
the challenge ahead: GEC and GRECC leadership." 4/2004, San Francisco, CA.
2005-07 Sleep Research Society, Trainee and Education Advisory Committee Member
2007-11 Sleep Research Society, Trainee and Education Advisory Committee **Chair**
2010-12 Society for Behavioral Sleep Medicine, Education Committee **Co-Chair**
2009-14 VA Greater Los Angeles Healthcare System, Continuing Education for Psychologists
Committee Member
2011-14 Sleep Research Society, Board of Directors, **Director at Large**
Membership and Communications Committee, Board Liaison
Strategic Planning Workgroup, Member
2011-14 Sleep Research Society Foundation, Board of Directors, **Director at Large**
2014 American Academy of Sleep Medicine, Journal of Clinical Sleep Medicine Editor **Search
Committee Member**
2014 Sleep Research Society, **Secretary-Treasurer**
Government Relations Committee
2014-18 American Academy of Sleep Medicine, Actigraphy Practice Parameters Task Force Member
2014-pres American Academy of Sleep Medicine Board of Directors, **Director at Large**
2016-19 American Academy of Sleep Medicine Foundation, **President**
2019-20 American Thoracic Society Working Group on Research Priorities in Central Sleep Apnea,
Workgroup Member
2019-20 American Sleep Medicine Foundation Board of Directors, **Executive Committee Member
At Large**
2020-21 American Academy of Sleep Medicine, **Secretary/Treasurer**

2020-21 American Academy of Sleep Medicine Foundation **Secretary/Treasurer**
 2020-21 American Board of Sleep Medicine **Secretary/Treasurer**
 2021-22 American Academy of Sleep Medicine, **President Elect**
 2022-23 American Academy of Sleep Medicine, **President**
 2023-pres American Academy of Sleep Medicine, **Immediate Past President**
 2022 VA Greater Los Angeles Healthcare System, Associate Chief of Staff for Research Search Committee Member
 2022-pres VA Greater Los Angeles Healthcare System Research Service Diversity, Equity and Inclusion (DEI) Committee Member
 2023-pres UCLA Academic Senate Legislative Assembly member

STUDY SECTION AND GRANT REVIEWS

2005, 2008 Alzheimer's Association, Grant Application Reviewer
 2011 AAAS Grant Application Reviewer
 2014 American Sleep Medicine Foundation, Grant Review Committee Member.
 2014-2016 VA Health Services Research and Development Service, Career Development Award Scientific Merit Review Board (SMRB), CDA-0
 2015-2016 NIH Special Emphasis Panel ZAT1 HS (21) 1
 2015 External Peer Reviewer, Cochrane Dementia and Cognitive Improvement Group
 2016 NIH NHLBI Loan Repayment Program Reviewer
 2016 VA Health Services Research and Development Service, Nursing Research Initiative Scientific Merit Review Board (ad-hoc member)
 2016, 2017, 2018 NIH/NCCIH Special Emphasis Panel ZAT1 HS-29 Clinical Research on Mind-Body Interventions Study Section (7/14/2017; 6/7/2018)
 2017 NIH/NIDDK Special Emphasis Panel ZDK1 GRB-9 (J2) Planning NIDDK Clinical Trials (11/9/2017)
 2017-2020, 2023 Department of Defense CDMRP Grant Reviewer
 2018 NIH/NIMH Special Emphasis Panel ZMH1 ERB-B Confirmatory Efficacy Clinical Trials of Non-Pharmacological Interventions for Mental Disorders (6/7/2018)
 2018 NIH Addiction Risks and Mechanisms (ARM) Study Section Ad Hoc Reviewer: Non-Pharmacological Interventions for Mental Disorders (11/1/2018)
 2019 NIH Special Emphasis Panel ZMH1 ERB-D (04) Treatment Development – Psychosocial Interventions (2/8/2019)
 2019 NIH/NHLBI Special Emphasis Panel R13 Conference Grant (11/4-5/2019)
 2020-pres VA Health Services Research and Development Service, Mental Health and Suicide Prevention Scientific Merit Review Board (SMRB) **Chair**
 2024-pres NIH/NHLBI Mentored Patient Oriented Research (MPOR) Study Section, member

EDITED BOOKS: EDITOR AND SECTION EDITOR

Principles and Practice of Sleep Medicine, 7th Edition. CA Alessi, JL Martin, CH Fung. Section Editors: "Sleep Medicine in the Elderly." Eds. MH Kryger, T Roth, C Goldstein, WC Dement. Elsevier Inc. Philadelphia, PA. 2022.

Essentials of Sleep Medicine: A Practical Approach to Patients with Sleep Complaints. 2nd Edition. MS Badr, JL Martin. Springer Nature. Switzerland, AG. 2022.

EDITORIAL BOARDS

2018-2022 Associate Editor, SLEEP

GUEST EDITOR - JOURNAL

Sleep in Older Adults. CA Alessi and JL Martin. Sleep Medicine Clinics. 2018 Mar;13(1). PMID: 29412988

JOURNAL AD HOC REVIEWER (alphabetical order)

American Journal of Geriatric Psychiatry 2004-2013
Brain, Behavior and Immunity, 2013
Cleveland Clinic Journal of Medicine 2010
Clinical Drug Investigations 2010
Clinical Gerontologist 2017
Cognitive Therapy and Research 2009
International Psychogeriatrics, 2013
Journal of Behavioral Sleep Medicine 2003, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
The Journal of Clinical Psychiatry 2003, 2018
Journal of Clinical Sleep Medicine 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
Journal of Clinical and Consulting Psychology 2023
The Journal of Geriatric Medicine 2000
Journal of Geriatric Psychiatry and Neurology 2009
Journal of Psychosomatic Research 2012, 2013
Journal of the American Geriatrics Society 2004, 2005, 2008-2014, 2024
Journal of Environmental and Public Health 2019
Journals of Gerontology: Psychological Sciences 2005, 2007
Journals of Gerontology: Medical Sciences 2007, 2008
Lancet 2021
Lancet Neurology, 2021
Neurobiology of Aging 2006, 2007
Perceptual and Motor Skills 2001, 2002
Sleep 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
Sleep Health 2018, 2019, 2020
Sleep Medicine 2013, 2015
Sleep Medicine Reviews 2003, 2014, 2020
Western Journal of Nursing Research 2005
Women's Health Issues 2024

OTHER PROFESSIONAL ACTIVITIES

2005 Content Expert for Quality Indicators in Sleep Disorders, Assessing the Care of Vulnerable Elders-3 (ACOVE-3) Project, Rand Corporatstongion, Santa Monica, CA
2008 Invited Participant, VA Expert Panel and Work Group "Insomnia Treatment, Training and Research: Existing Resources and Projected Needs. Rochester, NY. 9/8-9/2008.
2009 NIH/NIA Special Emphasis Panel ZRG1 HDM-P (58)

2010	NIH/NIMH Special Emphasis Panel XMH1 ERB-F (08)
2011	Sleep Medical Expert, Insomnia Project, www.afterdeployment.org
2011-pres	Consultant, VA Office of Mental Health, Evidence Based Psychotherapy Roll-out of Cognitive Behavioral Therapy for Insomnia (CBT-I)
2011-pres	National Expert Trainer, VA Office of Mental Health, Evidence Based Psychotherapy Roll-out of Cognitive Behavioral Therapy for Insomnia (CBT-I)
2013	American Academy of Sleep Medicine <u>Journal of Clinical Sleep Medicine</u> , Editor Search Committee member
2013-2016	CDC National Healthy Sleep Awareness Project (American Academy of Sleep Medicine/Sleep Research Society joint initiative)
	2013-16 Strategic Planning Task Force Member
	2014-16 Provider Education Workgroup Chair
	2015 Sleep Duration Consensus Conference Panel Participant
2013-2016	American Academy of Sleep Medicine Wrist Actigraphy Clinical Practice Guidelines Development Task Force
2016-pres	Subject Matter Expert, VA Office of Mental Health Roll-out of Group Cognitive Behavioral Therapy for Insomnia (CBT-I)
2016-2019	Sepulveda Research Corporation (VA Greater Los Angeles Healthcare System Research Non-Profit) Board of Directors
2019	VA/DOD Sleep Disorders Clinical Practice Guideline Workgroup Member
2020-2022 and 2024-	Greater Los Angeles VA Research and Education Foundation (VA Greater Los Angeles Healthcare System Research Non-Profit) Board of Directors
	2020-2022 Nominating Committee Chair
	2021-2022 Treasurer
	2024-pres. Board Chair
2021-pres	AASM CDC Funded Obstructive Sleep Apnea Awareness Project
	2021-2022 Strategic Planning Workgroup Member
	2022-2024 Strategic Planning Workgroup Chair
2023-pres	VA Greater Los Angeles Healthcare System Advanced Fellowship in Women's Health Co-Director
2023-pres	VA STRONG Veterans Act of 2022 (H.R.6411) Sleep Workgroup Member
2023-pres	<u>Journal of clinical Sleep Medicine</u> , Editor Search Committee Chair
2024-pres	VA/DOD Sleep Disorders Clinical Practice Guideline Update Workgroup Member

INVITED LECTURES/SEMINAR TEACHING

Poster: "Sleep, light and mood in demented nursing home patients." Stein Institute for Research on Aging Information Exchange. University of California, San Diego. April 1995.

Poster: "Sleep, light and mood in demented nursing home patients." Psi-Chi Undergraduate Research Fair. California State University, San Marcos. April 1995.

Invited lecture: "Sleep Disorders in Nursing Home Residents." The 16th International Congress of the International Association of Gerontology. Sleep in Aging. August 1997.

Workshop: "Clinical Issues in Sleep in the Elderly." Association of Professional Sleep Societies. Trainee Symposia Series. Sleep across the Lifespan. June 1998.

Invited lecture: "Normal and disordered human sleep." Department of Psychology, San Diego State University, Undergraduate Abnormal Psychology course. Spring 1999.

Television broadcast: "Treatment of Sleep Maintenance Insomnia in Older Adults." Symposium for Research on Alternative Medicine. University of California, San Diego School of Medicine, Broadcast on UCSDTV network, July 1999.

- Invited lecture: "Sleep in Older Adults." San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, Graduate Course in Physiological Foundations of Behavioral Medicine. Fall 2000.
- Invited lecture: "The sleeping human brain." Department of Psychology, San Diego State University, Undergraduate Introduction to Psychology. Fall 2000.
- Invited lecture: "Sleep deprivation." Department of Psychology, San Diego State University, Undergraduate Introduction to Psychology. Fall 2000.
- Invited lecture: "Sleep in nursing home patients." University of California San Diego, Geriatric Psychiatry Lecture Series. March 2001.
- Invited lecture: "Normal human sleep and sleep disorders." Department of Psychiatry, University of California, San Diego. Medical Center Clinical Seminar. April 2001.
- Invited lecture: "Sleep, Light and Rhythms in Dementia." Gordon Conference on Chronobiology. August 2001.
- Invited lecture: Sleep in Older Patients with Schizophrenia. Providence Sleep Research Interest Group. Brown University Bradley Hospital Sleep Research Laboratory, September 2001.
- Invited lecture: "Sleep, Light and Circadian Rhythms in Dementia." Brown University Department of Psychiatry & Human Behavior. Behavioral Medicine Seminar Series. February 2002.
- Poster: "Reported sleep patterns in older men and women with schizophrenia." Brown University School of Medicine Department of Psychiatry & Human Behavior 6th Annual Research Symposium on Mental Health Services. Brown University. March 2002.
- Workshop: "Actigraphy in Aging and Dementia." Society for Research on Biological Rhythms. Measurement Tutorial. May 2002.
- Invited lecture: "24-Hour sleep patterns in adolescents: school days versus weekends." Providence Sleep Research Interest Group. Bradley Hospital Sleep Research Laboratory, Brown University. May 2002.
- Workshop: "Getting a good night's sleep." Greater Los Angeles Veterans Affairs Medical Center – Sepulveda Ambulatory Care Center. VA Elderfest. May 2003.
- Invited CME lecture: "Sleep disorders in older adults." Sherman Oaks Hospital. Continuing Medical Education Lecture Series. March 2004.
- Invited lecture: "Sleep disorders in older adults." Premier Program Networking Seminar Series. Sherman Oaks Hospital, June 2004.
- Invited lecture: "Sleep in older adults." Interdisciplinary Team Training and Development / Geriatric Research, Education and Clinical Center Lecture Series, Greater Los Angeles VA Healthcare System, Sepulveda, January 2005.
- Poster: "The nighttime environment in post-acute rehabilitation: Noise, noise and more noise." Martin JL, Webber AP, Harker JO, Josephson KR, Alessi CA. VA Health Services Research & Development Career Development Awardee's Conference, February 2005.
- Symposium: "Sleep and Sleep Disorders in Aging." Martin JL (presented on behalf of S. Ancoli-Israel). American Association of Geriatric Psychiatry, San Diego, CA, March 2005.
- Invited teaching lecture: "Improving sleep in nursing home residents: intervention development." University of California, Los Angeles Multicampus Program in Geriatric Medicine and Gerontology Lecture Series, Sepulveda, CA, March 2005.
- CME Symposium: "Insomnia: diagnosis and treatment including pharmacological and non-pharmacological approaches. Martin JL. Symposium Title: Sleep Disorders in the Geriatric Population: Implications for Health. American Geriatrics Society Annual Meeting, Orlando, FL, May 2005.
- Teaching course: "Optimizing actigraphic and observational assessment of sleep parameters in frail older adults." Martin JL. Course title: Methodology of Assessment and Analysis of Circadian Rhythms in Humans. First International Congress of Applied Chronobiology and Chronomedicine, Antalya, Turkey, June 2005.

Symposium: "Environmental conditions, sleep, and circadian rhythms in the nursing home setting." Martin JL. Symposium Title: Circadian Rhythms in Dementia. First International Congress of Applied Chronobiology and Chronomedicine, Antalya, Turkey, June 2005.

Workshop: "Sleep disorders and aging: assessment and management." Martin JL. Symposium Title: Primary Care Issues as Women Age. June 2005.

Symposium: "Getting a good night's sleep: Is it possible?" Martin JL. Mini Medical School on Women's Health. The Women's Health Resource Center of San Francisco. October 2005.

Panel discussion and lecture: "Sleep disturbances among older people with dementia: identification and treatment approaches in the nursing home." Panel title: Sleep problems in the elderly. Fifth Annual Meeting of the International College of Geriatric Psychoneuropharmacology. Pittsburgh PA. November 2005.

Invited lecture: "Identification and management of sleep problems in the nursing home." University of California, Los Angeles Multicampus Program in Geriatric Medicine and Gerontology Lecture Series, Los Angeles, CA, March 2005.

Poster presentation: Identifying Excessive Daytime Sleeping in Older Post-Acute Rehabilitation Patients. Skibitsky M, Orlando M, Martin J, Harker J, Alessi C, and Saliba D. American Geriatrics Society Hartford Student Poster Session. Chicago, IL, May 2006.

Invited lecture: "Identification and treatment of sleep problems in the nursing home." University of California, Los Angeles Multicampus Program in Geriatric Medicine and Gerontology Lecture Series, Los Angeles, CA, December 2006.

Invited lecture: "Sleep and inflammatory markers among rehabilitation patients." UCLA Claude D. Pepper Older Americans Independence Center Seminar Series, Los Angeles, CA, January 2007.

Invited lecture: "Identification and treatment of sleep problems in the nursing home." VA Greater Los Angeles Healthcare System, Medicine Grand Rounds. Los Angeles, CA, February 2007.

Invited lecture: "Sleep and Aging." VA Sepulveda Ambulatory Care Center, Psychology Trainee Lunch Seminar Series. North Hills, CA. May 2007.

Symposium: "Getting more Zzzzz's: Assessing and managing sleep disorders." Primary care issues as women age. Las Vegas, NV. June 2007.

Invited lecture: "Cognitive-behavioral Therapy for Insomnia." VA Sepulveda Ambulatory Care Center, Psychology Trainee Lunch Seminar Series. North Hills, CA. July 2007.

Invited lecture: "Screening for dementia." VA/UCLA Geriatric Medicine Fellowship, Program on geriatric assessment, North Hills, CA. July 2007.

Research presentation: "Are we promoting true informed consent?" VA Greater Los Angeles Healthcare System, Health Services Research and Development Center of Excellence Weekly Work In Progress Seminar. North Hills, CA 10/2007.

Invited lecture: "Insomnia: diagnostic considerations." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 10/23/2007.

Invited lecture: "Insomnia: Pharmacological and non-pharmacological Treatments." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 11/2007.

Teaching seminar: "Depression in older adults." VA Greater Los Angeles Healthcare System Geriatric Evaluation and Management Unit Lecture Series. Los Angeles, CA 1/25/2008.

Teaching seminar: "Sleep and inflammatory markers among rehabilitation patients." Los Angeles, CA. 2/21/2008.

CEU course: "Age, gender and race effects on sleep." American Academy of Sleep Medicine, Behavioral Sleep Medicine and Insomnia Course. Chicago, IL. 3/2/2008.

Research Seminar: "Insomnia: the complex interactions among age, gender and race/ethnicity." North Hills, CA. 3/6/2008.

Teaching seminar: "Evaluating patients' insomnia complaints." VA Sepulveda Ambulatory Care Center, Psychology Trainee Lunch Seminar Series. North Hills, CA. 3/20/2008.

Invited symposium: "Discussion lunch: First-time attendees." Sleep 2008 Sleep Research Society Trainee Symposia Series. Baltimore, MD. 6/8/2008.

Award lecture: "Self-reported sleep quality predicts mortality within one year of post-acute rehabilitation among older people" American Academy of Sleep Medicine Insomnia Section Meeting. Baltimore, MD. 6/10/2008.

CME lecture: "Sleep: Efficacy of Cognitive-behavioral therapy vs. pharmacological therapy." Kaiser Permanente, Antelope Valley. 8/26/2008.

CME lecture: "Insomnia treatment: Cognitive-behavioral vs. pharmacological therapy." Kaiser Permanente, Panorama City, CA. 10/29/2008.

Teaching Seminar; "Identification and Management of Sleep Disturbance in the Nursing Home" VA/UCLA Multicampus Program in Geriatric Medicine and Gerontology. 10/23/2008.

Case Conference: "Wrist actigraphy in refractory insomnia." VA/Olive View Sleep Medicine Fellowship Program Conference Series. 4/3/2009.

Invited Speaker: "Nonpharmacological Management of Adult Insomnia" American Academy of Sleep Medicine, Best Practices Course. Seattle, WA. 6/6/2009.

Workshop leader, "Getting to K: writing a successful NIH K-award application." Sleep Research Society, Trainee Symposia Series. Seattle WA, 6/7/2009.

Invited lecture: "The Impact of Sleep on Health Outcomes among Older Post-Acute Rehabilitation Patients". Brown University/E.P. Bradley Hospital Sleep Laboratory. 7/10/2009.

Teaching lecture: "Insomnia: diagnostic considerations." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA. 8/7/2009.

Teaching lecture: "Insomnia: Pharmacological and non-pharmacological Treatments." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 8/28/2009.

Teaching Seminar; "Behavioral Treatment of Adult Insomnia" VA/UCLA Multicampus Program in Geriatric Medicine and Gerontology. 10/1/2009.

Teaching Seminar: "Wrist actigraphy." VA/Olive View Sleep Medicine Fellowship Program Conference Series. 2/5/2010.

CE/CME course: "Special Considerations in the Evaluation and Treatment of Sleep Disorders in the Elderly." American Academy of Sleep Medicine, Behavioral Sleep Medicine and Insomnia Course. Chicago, IL. 4/20/2010.

Invited Lecture: "Sleep Disorders: How close are we to getting patient's a good night's sleep?" Alzheimer's Association Alzheimer's Association Research Roundtable, Neuropsychiatric Symptoms in Alzheimer's Disease, Washington, DC. 4/29/2010.

Research lecture: Circadian activity rhythms are associated with pro-inflammatory cytokines among older adults in post-acute rehabilitation. International Congress of Applied Chronobiology and Chronomedicine. Akko, Israel. 5/21/2010.

CME course: "Treating Sleep Problems in Community Dwelling and Institutionalized Older Adults", SLEEP 2010 pre-conference course. San Antonio, TX. 6/5/2010

Workshop speaker: "Actigraphy General Introduction to Actigraphy for Sleep Assessment", SLEEP 2010 Clinical workshop. San Antonio, TX. 6/9/2010.

CE course: "CBT for Insomnia: Nuts, Bolts and Other Tools." Continuing Education for Psychologists, VA Greater Los Angeles Healthcare System, 6/28/2010.

Invited lecture: "Evidence-Based Treatment of Insomnia" VA Greater Los Angeles Healthcare System Evidence Based Practice Seminar Series. Los Angeles, CA. 12/13/2010

Teaching lecture: "Wrist Actigraphy." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 3/18/2011.

Workshop speaker: "Nonpharmacological treatment of sleep disorders in older adults" Annual meeting of the Associated Professional Sleep Societies (SLEEP 2011). Minneapolis, MN. 6/12/2011

Session Chair: Women and Sleep. Annual meeting of the Associated Professional Sleep Societies (SLEEP 2011). Minneapolis, MN. 6/13/2011

Teaching lecture: "Assessment and Diagnosis of Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 8/19/2011.

Teaching lecture: "Treatment of Adult Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 8/26/2011.

Workshop speaker: "Evidence-based treatment of adult insomnia." Fifth Annual Sleep Medicine in Primary Care Conference. University of California, Los Angeles. 12/3/2011.

CME Workshop Speaker, "Actigraphy in the diagnosis of sleep disorders." Anaheim, CA. 1/15/2012.

Teaching Seminar; "Nonpharmacological Treatment of Adult Insomnia" VA/UCLA Multicampus Program in Geriatric Medicine and Gerontology. Los Angeles, CA 1/19/2012.

CME/CE workshop speaker: Getting a good night's sleep. Healthcare for Women over 40 Conference. Las Vegas, NV. 5/19/2012.

Panel discussion: Recent Innovations in VA Care: Cognitive-Behavioral Therapy for Insomnia – Evidence Based Practice Rollout." VA Sleep Disorders Centers Meeting. Boston, MA. 6/9/2012.

Session Co-Chair: "Ethical Considerations in Behavioral Sleep Medicine". Inaugural meeting of the Society of Behavioral Sleep Medicine. Boston, MA. 6/10/2012.

Session Chair: Treatment of Insomnia. Annual meeting of the Associated Professional Sleep Societies (SLEEP 2012). Boston, MA. 6/13/2012.

Teaching lecture: "Assessment and Diagnosis of Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 8/10/2012.

Teaching lecture: "Treatment of Adult Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 8/17/2012.

CME lecture: "The World of Sleep Deprivation: Who and What is at Risk?" Sky Lakes Medical Center. Medford, OR. 1/8/2013.

CME lecture: "The World of Sleep Deprivation: Who and What is at Risk?" Providence Tarzana Medical Center. Tarzana, CA. 3/12/2013.

CME lecture: "The World of Sleep Deprivation: Who and What is at Risk?" John F. Kennedy Memorial Hospital. Indio, CA. 3/20/2013.

CME lecture: "The World of Sleep Deprivation: Who and What is at Risk?" Orange Coast Memorial Medical Center, Fountain Valley, CA. 4/25/2013.

Invited speaker: "Getting a good night's sleep." Advances in Health Care for Women over 40. Scottsdale, AZ. 4/30/2013

Invited speaker, "Actigraphy in the Diagnosis of Sleep Disorders" Sleep Core Curriculum Workshop. American Thoracic Society Annual Meeting, Philadelphia, PA. 5/20/2013.

Session co-presenter: "Actigraphy" Society of Behavioral Sleep Medicine Annual Conference. Baltimore MD. 6/1/2013.

Workshop presenter: "Sleep in Older Adults with Cognitive Impairments" William C. Dement Trainee Symposia Series, SLEEP 2013. Baltimore MD. 6/2/2013.

Oral presenter: Cognitive-Behavioral Therapy for Insomnia Improves Sleep Quality in an Older Veteran Population: Preliminary Results of the Healthy Sleep Study. SLEEP 2013. Baltimore, MD. 6/3/2013.

Session Chair: "Adaptation of Evidence-based Behavioral Treatments for Co-morbid Insomnia" SLEEP 2013. Baltimore, MD. 6/5/2013.

Invited speaker: "Sleep and Aging." Geriatric Scholars Program (GSP) for Psychologists. VA Palo Alto Healthcare System. Palo Alto, CA. 9/18/2013.

Invited speaker: "An Introduction to CBT for Insomnia" with patient demonstration. Sleep Medicine Fellowship Program. John D. Dingell VA Medical Center. Detroit, MI. 9/19/2013.

Invited speaker: "Actigraphy in the Diagnosis of Sleep Disorders" Sleep Medicine Fellowship Program. John D. Dingell VA Medical Center. Detroit, MI. 9/19/2013.

Invited speaker: "Comorbid Insomnia and Sleep Apnea." Wake up to Sleep Apnea: Therapy Saves Lives." VA Employee Education System VISN 11 Sleep Seminar. Lansing, MI. 9/20/2013.

Invited speaker: "Sleep disorders in geriatric patients." Annual meeting of the Association for Sleep Disorders Disciplines. Scottsdale, AZ. 9/28/2013.

Invited speaker: "Sleep Problems in Women." 7th annual UCLA Sleep CME course: Sleep Medicine: Practical approaches in primary care. Los Angeles, CA 12/7/2013

Invited speaker: "Sleep Disorders in Older People." 7th annual UCLA Sleep CME course: Sleep Medicine: Practical approaches in primary care. Los Angeles, CA. 12/7/2013.

Symposium Presenter: "Integrating CBT-I Into Comprehensive Care for Sleep Disorders" SLEEP annual meeting. Minneapolis, MN. 6/4/2014.

Symposium Presenter: "Insomnia Among Women Veterans: Results of a National Survey" HSR&D National Meeting on Partnerships for Research & Care of Women Veterans: Building the Evidence Base for Clinical and Policy Action. 8/1/2014.

Invited speaker: "Sleeping Your Way to the Top of Your Game." University of Oregon Department of Athletics. 8/24/2014.

Teaching Lecture: "Wrist Actigraphy" VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles. 10/3/2014.

Invited speaker: "Sleep Problems in Women" 8th annual UCLA Sleep CME course: Sleep Medicine: Practical approaches in primary care. Los Angeles, CA 12/8/2014

Invited speaker: "Sleep Disorders in Older People" 8th annual UCLA Sleep CME course: Sleep Medicine: Practical approaches in primary care. Los Angeles, CA. 12/8/2014.

Invited Speaker: "Insomnia Disorder." Medicine Grand Rounds, Wayne State University, Detroit, MI 2/9/2015.

Invited Speaker: "Complementary and alternative therapies for insomnia." American Academy of Sleep Medicine Trends in Sleep Medicine Course, Phoenix AZ. 2/21/2015.

Invited Speaker: "Group visits for insomnia therapy." American Academy of Sleep Medicine Trends in Sleep Medicine Course, Phoenix AZ. 2/22/2015

Symposium presenter: "Chronic insomnia and its non-pharmacological management." American Geriatrics Society annual meeting, Washington DC. 5/16/2015.

Session Co-Chair: "Insomnia". SLEEP meeting. Seattle, WA. 6/8/2015.

Teaching lecture: "Treatment of Adult Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 10/2/2015.

Keynote speaker: "Sleeping more can make you more successful" Dole Packaged Foods Corporate Wellness Retreat. 11/17/2015.

Teaching lecture: "Assessment and Diagnosis of Insomnia." VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles, CA 1/29/2016.

Invited presenter: "Sleep well, live well." Healthy Happy Hour Cardio Health and Wellness Center at Saint Luke's Health System in Kansas City, MO. 2/2/2016.

Invited presenter: "Sleeping your way to success." Children's Hospital Los Angeles BLOOM event. Westlake Village, CA. 3/4/2016.

Invited speaker: "Insomnia in Veterans." VA VISN 22 Mental Health and Polytrauma Conference. Long Beach, CA. 4/13/2016.

Invited presenter: "Insomnia in Women Veterans." American Thoracic Society Annual Meeting. San Francisco, CA. 5/16/2016.

Webinar presenter: "Helping sleepless Veterans". The Soldier's Project. 6/29/2016.

CEU Webinar presenter: Treating Insomnia in Women Veterans. VA Women's Mental Health Monthly Teleconference. 7/14/2016

Teaching lecture: "Insomnia diagnosis and treatment" John D. Dingle VA Medical Center Sleep Medicine Fellowship Lecture Series. Detroit, MI. 7/26/2016.

Invited speaker: "Sleep disorders in spinal cord injury: challenges and opportunities" Paralyzed Veterans of America Summit. Orlando, FL. 8/31/2016.

Colloquium speaker: "Cognitive behavioral therapy for insomnia: how and why it works." California State University, Long Beach Psychology Department Colloquium Series. Long Beach, CA. 9/28/2016.

Teaching Lecture: "Wrist Actigraphy" UCLA/VA Greater Los Angeles Healthcare System, Sleep Medicine Fellowship Lecture Series. Los Angeles. 10/14/2016

Invited Speaker, "Helping Sleepless Patients" West Los Angeles VA Medical Center, Medicine Grand Rounds, Los Angeles, CA. 10/19/2016

Invited Speaker, "Helping Sleepless Patients" UCLA Harbor Hospital, Medicine Grand Rounds, Los Angeles, CA. 11/1/2016

Teaching Lecture: "Wrist Actigraphy" Wayne State University, Sleep Medicine Fellowship Lecture Series. Detroit, MI. 12/13/2016

Invited Speaker, "Insomnia Disorder" Syrian American Medical Society Annual Meeting, Huntington Beach, CA. 2/19/2017

Speaker, ATS MOC Core Curriculum "Sleep and Psychiatric Disease" American Thoracic Society annual meeting, Washington, DC. 5/23/2017

Workshop speaker, Behavioral Sleep Medicine course, "Considerations for working with older adults. Annual meeting of the Associated Professional Sleep Societies, Boston MA. 6/4/2017

Invited Speaker, "Strategies for Living with Narcolepsy." Narcolepsy Meet-up (patient support group) San Diego, CA 6/30/2017

Invited Speaker: UCLA Sleep and Neurocognition Symposium "Sleep in Women Veterans". Los Angeles, CA. 4/6/2018

Invited Speaker/Faculty: American Academy of Sleep Medicine Young Investigator Research Forum. "Using foundation and industry support to launch your scientific career." Bethesda, MD. 4/18/2018.

Teaching Lecture: "Developing Research Questions" Psychology Intern Seminar. Los Angeles, CA. 5/1/2018.

Poster discussion: "Behavioral treatment of insomnia in women Veterans with comorbid sleep disordered breathing increased sleep quality and reduces sleepiness" American Thoracic Society Annual Meeting. San Diego, CA. 5/23/2018.

Seminar Presenter: "Brief Behavioral Treatments for Insomnia Disorder" University of California, Los Angeles Anxiety Disorders Training Program. Los Angeles, CA 9/7/2018.

Invited Speaker: "Sleep Disorders in Women". VA/DOD Women's Health Mini-residency. Washington, DC 8/29/2018.

Invited Speaker: "Practical issues in measuring sleep quality" International Psychogeriatric Association Annual Conference. Hoboken, NJ. 9/14/2018.

Panel Participant: "Women Service Members and Veterans – Unique Challenges and Opportunities" NIH 2018 Research Conference on Sleep and the Health of Women. Washington DC. 10/17/2018.

Invited Speaker: "Updates from the American Academy of Sleep Medicine. Utah Sleep Society Annual Meeting, Murry, UT. 2/22/2019.

Invited Speaker/Workshop Faculty: "Using Foundation Funding to JumpStart your Research Career." American Academy of Sleep Medicine Young Investigator Research Forum, Bethesda, MD. 4/10/2019.

Invited Speaker: "Sleep in Older Adults." University of Maryland Older Americans Independence Center. 4/25/2019

Invited Speaker: "Sleep in Older Adults." Maryland Sleep Society Annual Meeting. 4/26/2019

VA Academic Detailing Collaboration Call series. "Insomnia Disorder" Web-based training (nationally disseminated). 5/8/2019.

Teaching Lecture: "Wrist Actigraphy" VA Greater Los Angeles Healthcare System/UCLA, Pulmonary, Critical Care and Sleep Medicine Lecture Series. Los Angeles, CA. 5/15/2019.

Invited Speaker: "Healthy Sleep." Los Angeles Clinical Practicum in Integrative Medicine. Los Angeles, CA. 6/5/2019.

Workshop Presenter and Discussant: Insomnia and OSA Clinical Practice Recommendations for Veterans and Military Personnel" SLEEP 2019. San Antonio, TX. 6/12/2019.

Invited Speaker: "Insomnia Disorder." VA SCAN-ECHO Pain Conference. Synchronous web-based session. 8/29/2019.

Teaching lecture: "Brief Behavioral Treatments for Insomnia Disorder". UCLA Psychiatry Residency Seminar series. 2/12/2020.

Invited Speaker: "Healthy Sleep" National Association for Medical Direction of Respiratory Care 2020 Annual Meeting. 3/14/2020.

Invited Speaker: NYU PRIDE Scholar Summer Institute, "Behavioral Approaches to Treat Insomnia." 7/30/2020.

Post-graduate course speaker: "Behavioral Sleep Medicine Interventions in Women" Associated Professional Sleep Societies Annual Meeting. 8/27/2020.

Invited Speaker: "Foundations and Other Funding Resources to Support Your Research." American Academy of Sleep Medicine Young Investigators Research Forum. 9/1/2020.

Teaching Lecture: "Wrist Actigraphy" VA Greater Los Angeles Healthcare System/UCLA, Pulmonary, Critical Care and Sleep Medicine Lecture Series. Los Angeles, CA. 10/23/2020.

Invited Lecture: "Pathways to CDAs" Early Career Investigator Seminar, VA Greater Los Angeles HS&RD Center for Innovation, Los Angeles, CA 11/9/2020.

PodCast: "The new AASM Clinical Practice Guidelines on Behavioral and Psychological Treatment of Insomnia" *AASM Talking Sleep Podcast*. 2/11/2021.

Invited Speaker: "Healthy Sleep" Nike Asia Pacific Latin America Women's Team Global Leaders Conference. Virtual conference. 2/32/2021.

Grand Rounds Speaker: "Launching your research program" Wayne State University, Detroit, MI. 5/7/2021.

Invited Speaker: "Sleep in Long-Term Care." American Geriatrics Society Annual Meeting. Virtual conference. 5/14/2021.

Invited Speaker: NYU PRIDE Scholar Summer Institute, "Behavioral Approaches to Treat Insomnia." 7/21/2021.

Seminar: "How to ask testable research questions" VA Geriatric Social Work Education Consortium Interns seminar. Los Angeles, CA (Virtual) 10/4/2021

Invited Speaker: "Updates from the American Academy of Sleep Medicine". California Sleep Society Annual Meeting. Sacramento, CA. 9/30/2022.

Keynote Speaker: "Choosing your own path in science and leadership." Annual Meeting of the Society of Behavioral Sleep Medicine. National Harbor, MD. 11/8/2022.

Keynote Speaker: "Strategies to Improve care for Patients with Insomnia." Sleep Medicine TRENDS. Austin TX. 2/16/2023

Invited Speaker: "Sleep in Women Veterans" UCSD Center for Circadian Biology Annual Conference San Diego, CA. 04/13/2023

Invited Lecture "Sleep Disorders in Women Veterans" Spotlight on Women's Health, VA Employee Education System (synchronous/virtual). 6/12/2023

Grand Rounds: "Sleep Disorders in Women Veterans" University of Pittsburgh" 09/21/2023

Panelist: "Sleep Research Career Pathways Webinar: Professional Societies" 09/28/2023

Invited Speaker: "Updates from the American Academy of Sleep Medicine." California Sleep Society Annual Meeting. San Diego, CA. 10/6/2023.

Workshop presenter: "Acceptance and the Behavioral Changes to Treat Insomnia (ABC-I) A New Approach to Treatment of Chronic Insomnia Disorders." Society of Behavioral Sleep Medicine Annual Meeting. San Diego, CA 11/4/2023.

Teaching Lecture: "Wrist Actigraphy" VA Greater Los Angeles Healthcare System/UCLA, Pulmonary, Critical Care and Sleep Medicine Lecture Series. Los Angeles, CA. 11/29/2023

Invited Speaker: "Sleep in Older Adults: Long Term Care" Little Rock, AR VA Geriatric Research, Education and Clinical Center Research/QI Lecture Series (synchronous/virtual). 2/5/2024.

Keynote Lecture: Sleep disorders in Women Veterans: A Story of Science and Practice. 7th Annual UCLA Sleep Medicine Day. Los Angeles, CA. 2/17/2024.

Invited Speaker: "Brief evidence-based treatments for insomnia disorder." Sleep Medicine TRENDS. San Diego, CA. 2/23/2024.

Presidential Keynote Speaker: Treating Insomnia: Cognitive-behavioral therapy and beyond. Philadelphia, PA. 3/1/2024

WORKSHOPS

Cognitive-Behavioral Therapy for Insomnia 6-hour CE/CME course.

UC San Diego School of Medicine/CME Office. La Jolla, CA. 4/14/2012.

Cognitive-Behavioral Therapy for Insomnia VA Evidence Based Psychotherapy Workshop

8/9/2011-8/11/2011	Salt Lake City, UT
12/6/2011-12/8/2011	Foster City, CA
4/17/2012-4/19/2012	Baltimore, MD
5/22/2012-5/24/2012	New Orleans, LA
7/24/2012-7/26/2012	Denver, CO
9/11/2012-9/13/2012	San Diego, CA
8/20/2013-8/22/2013	San Antonio, TX
9/24/2013-9/26/2013	Salt Lake City, UT
7/8/2014-7/10/2014	Fresno, CA (locally sponsored)
8/5/2014-8/7/2014	Phoenix, AZ
4/28/2015-4/30/2015	Kansas City, MO (locally sponsored)
10/19/2015-10/21/2015	Los Angeles, CA (locally sponsored)
9/13/2016-9/14/2016	Los Angeles, CA (locally sponsored)
8/22/2017-8/23/2017	Los Angeles, CA (locally sponsored)
8/21/2018-8/22/2018	Los Angeles, CA (locally sponsored)
8/22/2019-8/23/2019	Los Angeles, CA (locally sponsored)
8/13/2020-8/14/2020	Los Angeles, CA (locally sponsored)
8/17/2021-8/18/2021	Los Angeles, CA (locally sponsored)
8/4/2022-8/5/2022	Los Angeles, CA (locally sponsored)
9/13/2022-9/14/2022	Los Angeles, CA (locally sponsored)

Cognitive-Behavioral Therapy for Insomnia webinar presenter

VA Office of Mental Health Individual CBT-I Cohort 22: 4/28/2016-5/25/2016 (weekly web-based didactic)

VA Office of Mental Health Individual CBT-I Cohort 23: 8/14/2017-9/25/2017 (weekly web-based didactic)

VA Office of Mental Health and Suicide Prevention Individual CBT-I Cohort 26: 1/15/2019-3/5/2019 (weekly web-based didactic)

VA Office of Mental Health and Suicide Prevention Group CBT-I Pilot Cohort: 5/6/2019-7/1/2019 (biweekly web-based didactic)

VA Office of Mental Health and Suicide Prevention Individual CBT-I Cohort 27: 7/30/2019-8/27/2019 (weekly web-based didactic)

VA Office of Mental Health and Suicide Prevention Individual CBT-I New Consultant Training: 10/28/2019-11/20/2019 (weekly web-based didactic)

VA Office of Mental Health and Suicide Prevention Individual CBT-I New Trainer Training: 3/10/2020 (4-hour virtual training)

VA Office of Mental Health and Suicide Prevention Individual CBT-I New Consultant Training: 10/25/2021-10/29/2021 (daily web-based didactics)

VA Office of Mental Health and Suicide Prevention Individual CBT-I Cohort 36: 1/9/2024-2/6/2024 (weekly web-based didactic)

COURSE TEACHING EXPERIENCE

Undergraduate Courses:

1995 Teaching Assistant, Department of Psychology, "Introductory statistics."

1998 Instructor, Department of Psychology, San Diego State University, "Abnormal psychology."

Medical School Courses:

2000, 2001 Co-instructor, Department of Psychiatry, University of California, San Diego, School of Medicine Pre-clinical elective course, "Sleep, sleep disorders and circadian rhythms."

Seminar Series

2009, 2010 Course Director: VA Sepulveda Ambulatory Care Center, Psychology Intern Seminar Series on Evidence Based Treatment

2018- Course Director: VA Sepulveda Ambulatory Care Center, Psychology Training Program Research Seminar Series

UNDERGRADUATE HONORS THESIS

"Sleep apnea and dementia in nursing home patients"

1995 University of California, San Diego Mentor: Sonia Ancoli-Israel, PhD

DOCTORAL DISSERTATION

"Aging and sleep in schizophrenia patients and controls: subjective reports and objective findings"

2002 San Diego State University/University of California, San Diego
Mentor: Sonia Ancoli-Israel, PhD

PEER REVIEWED PUBLICATIONS

1. Ancoli-Israel S, Klauber MR, Jones DW, Kripke DF, **Martin J**, Mason W, Pat-Horenczyk R, Fell R. Variations in circadian rhythms of activity, sleep and light exposure related to dementia in nursing-home patients. Sleep, 20(1):18-23. 1997. PMID: 9130329
2. Ancoli-Israel S, Poceta S, Stepnowsky CJ, **Martin J**, Gehrman P. Identification and treatment of sleep problems in the elderly. Sleep Medicine Reviews, 1(1), 3-17. 1997. PMID 15310520
3. Ancoli-Israel S, **Martin J**, Jones DW, Caliguiri M, Patterson T, Harris MJ, Jeste DV. Sleep disordered breathing and periodic limb movements in sleep in older schizophrenia patients. Biological Psychiatry, 45, 1426-1432. 1999. PMID: 10356624
4. **Martin J**, Marler M, Shochat T, Ancoli-Israel S. Circadian rhythms of agitation in elderly patients with dementing illnesses. Chronobiology International, 17(3), 405-418. 2000. PMID 10841213
5. **Martin J**, Shochat T, Ancoli-Israel S. Assessment and treatment of sleep disorders in older adults. Clinical Psychology Review, 20(6), 783-805. 2000. PMID: 10983268
6. Shochat T, **Martin J**, Marler MR, Ancoli-Israel S. Illumination levels in nursing home patients: effects on sleep and rhythms. Journal of Sleep Research, 9, 373-379. 2000. PMID 11386204
7. **Martin J**, Jeste DV, Caliguiri MP, Patterson T, Heaton R, Ancoli-Israel S. Actigraphic estimates of circadian rhythms and sleep/wake in older schizophrenia patients. Schizophrenia Research, 47(1), 77-86. 2001. PMID: 11163547
8. Ancoli-Israel S, **Martin JL**, Kripke DF, Marler MR, Klauber MR. Effect of light treatment on sleep and circadian rhythms in demented nursing home patients. Journal of the American Geriatrics Society, 50, 282-289. 2002. PMID: 12028210
9. **Martin J**, Ancoli-Israel S. Assessment and diagnosis of insomnia in nonpharmacological intervention studies: Implications for clinical practice. Sleep Medicine Rev, 6(5),379-406. 2002. PMID: 12531128
10. Wolfson AR, Carskadon MA, Acebo C, Seifer R, Fallone G, Labyak SE, **Martin JL**. Evidence for the validity of a sleep habits survey for adolescents. Sleep, 26(2), 213-216. 2003. PMID 12683482

11. Ancoli-Israel S, Gehrman P, **Martin JL**, Shochat T, Marler M, Corey-Bloom J, Levi L. Increased light exposure consolidates sleep and strengthens circadian rhythms in severe Alzheimer's disease. Behavioral Sleep Medicine, 1(1), 22-36. 2003. PMID: 15600135
12. Ancoli-Israel S, **Martin JL**, Gehrman P, Shochat T, Corey-Bloom J, Marler M, Nolan S, Levi L. Effect of light on agitation in institutionalized patients with severe Alzheimer disease. American Journal of Geriatric Psychiatry, 11(2), 194-203. 2003. PMID: 12611749
13. Gehrman P, **Martin JL**, Shochat T, Nolan S, Corey-Bloom J, Ancoli-Israel S. Sleep disordered breathing and agitation in institutionalized adults with Alzheimer's disease. American Journal of Geriatric Psychiatry, 11(4), 426-433. 2003. PMID: 12837671
14. Gehrman P, Marler M, **Martin JL**, Shochat T, Corey-Bloom J, Ancoli-Israel S. The timing of activity rhythms in dementia is related to survival. Journals of Gerontology: Medical Sciences, 59A(10) 1050-1055. 2004. PMID: 15528777
15. Gehrman P, Marler M, **Martin JL**, Shochat T, Ancoli-Israel S. The relationship between dementia severity and rest/activity circadian rhythms. Neuropsychiatric Disease and Treatment, 1(2) 155-163. 2005. PMID: 18568061
16. **Martin JL**, Jeste DV, Ancoli-Israel S. Older schizophrenia patients have more disrupted sleep and circadian rhythms than matched comparison subjects. Journal of Psychiatric Research, 39(3) 251-259. 2005. PMID: 15725423
17. **Martin JL**, Mory AK, Alessi CA. Nighttime oxygen desaturation and symptoms of sleep disordered breathing in long-stay nursing home residents. Journals of Gerontology: Medical Sciences, 60(1), 104-108. 2005. PMID: 15741291
18. Alessi CA, **Martin JL**, Webber AP, Kim EC, Harker JO, Josephson KR. Randomized controlled trial of a nonpharmacological intervention to improve abnormal sleep/wake patterns in nursing home residents. Journal of the American Geriatrics Society, 53(5), 619-626. 2005. PMID 15877555
19. Webber A, **Martin JL**, Harker JO, Josephson KP, Rubenstein LZ, Alessi CA. Depression in older patients admitted for postacute nursing home rehabilitation. Journal of the American Geriatrics Society. 53(6) 1017-1022. 2005. PMID: 15935027.
20. Ancoli-Israel S, **Martin JL**. Insomnia and daytime napping in older adults. Journal of Clinical Sleep Medicine. 2(3) 333-342. 2006. PMID: 17561549
21. Haynes PL, McQuaid JR, Ancoli-Israel S, **Martin JL**. Disrupting life events and the sleep-wake cycle in depression. Psychological Medicine. 36(10) 1363-1374. 2006. PMID 16834822
22. Marler MR, Gehrman P, **Martin JL**, Ancoli-Israel S. The sigmoidally-transformed cosine curve: a mathematical model for circadian rhythms with symmetric non-sinusoidal shapes. Statistics in Medicine. 25(22) 3893-3904. 2006. PMID: 16381069
23. **Martin JL**, Webber AP, Alam T, Harker JO, Josephson KR, Alessi CA. Daytime sleeping, sleep disturbance and circadian rhythms in nursing home residents. American Journal of Geriatric Psychiatry. 14(2) 121-129. 2006. PMID: 16473976
24. **Martin JL**, Marler MR, Harker JO, Josephson KR, Alessi CA. A multicomponent nonpharmacological intervention improves activity rhythms among nursing home residents with disrupted sleep/wake patterns. Journals of Gerontology: Medical Sciences. 62(1) 67-72. 2007. PMID: 17301040
25. Shimazaki MT, **Martin JL**. Do herbal agents have a place in the treatment of sleep problems in long-term care? Journal of the American Medical Directors Association. 8(4), 248-252. 2007.
26. Woods DL, **Martin JL**. Cortisol and wake time in nursing home residents with behavioral symptoms of dementia. Biological Research for Nursing. 9(1) 21-29. 2007.
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ACADEMIC AFFAIRS REGULAR REPORTS

- I. Academic and Student Affairs**
- II. Faculty Senate**
- III. Florida International University and Baptist Health South Florida Collaboration**
- IV. Information Technology**
- V. Research and Economic Development / University Graduate School**

I. ACADEMIC AND STUDENT AFFAIRS

1. FIU Approved as Official FAA Testing Location Through CTCC

Florida International University's Center for Testing and Career Certification (CTCC) has been approved as an official Federal Aviation Administration (FAA) testing site, marking a major milestone in expanding access to high-demand technical careers. This designation allows students, alumni, and community members to earn nationally recognized FAA certifications locally. The partnership supports South Florida's growing aviation, aerospace, and logistics sectors by equipping learners with industry-validated credentials that lead to meaningful employment and career advancement. This initiative reflects CTCC's ongoing commitment to workforce readiness and opportunity for the FIU and Tri-County communities.

2. FIU Highlights Hazing Prevention Efforts During National Awareness Week

From September 22–26, FIU observed National Hazing Prevention Week with a series of impactful initiatives aimed at promoting student safety and awareness. In response to the Stop Campus Hazing Act, the university launched a new reporting form for hazing incidents and introduced a hazing policy for employees. Student Health & Wellness collaborated with Athletics and the Center for Fraternity & Sorority Enrichment to host educational programming, including a social media campaign, case study forum, tabling event, and a powerful keynote by Rae Ann Gruver, mother of Max Gruver.

The week's programming engaged over 325 in-person participants and reached more than 12,000 accounts digitally through campaign reels, while strengthening collaboration among Athletics, Fraternity & Sorority Life, Healthy Living Program, Student Conduct and Academic Integrity, and Student Health & Wellness to promote hazing prevention and student safety.

3. Bank of America Invests \$50,000 in FIU's Tech Talent Academy to Advance Career Readiness

Florida International University has received a \$50,000 sponsorship from Bank of America to support the Tech Talent Academy (TTA) during the 2025–2026 academic year. This investment will expand career readiness programming through Tech Talent Summits, hands-on workshops, and mentoring initiatives focused on preparing students for high-demand technical careers. It also supports instruction and peer-led services such as resume reviews, profile building, and interview preparation.

On October 22, TTA hosted its Fall Summit, featuring over 14 leading employers, including IBM, NEXTERA Energy, Ryder, Royal Caribbean, and GitHub. Bank of America's continued support strengthens FIU's commitment to workforce development and empowers the next generation of tech professionals through enhanced access to industry engagement and career-building opportunities.

4. Enrollment Report University Enrollment

The Common Application opened on August 1 for the first-year class of 2026. As of October 15, 2025, FIU experienced a 30% increase in applications point-in-time from October 2024. Transfer applications for summer and fall 2026 are also trending ahead 35% over last year and 12% over the prior year.

Since the last report, the Office of Admissions has completed seven school counselor events around the State of Florida and represented FIU at the National Association for College Admissions Counseling conference in Columbus, Ohio. Admissions Recruiters have traveled across Florida, Puerto Rico, The Bahamas, Orlando, Tampa, Fort Myers, and Jacksonville. Out of state FIU has been represented in the greater Atlanta area, Washington DC, Maryland, and Virginia. Upcoming trips include Mexico, the Caribbean, and Dallas.

At the graduate level, we have expanded our recruitment efforts to nearly all the other SUS institutions, plus Miami-area private universities.

Transfer and Transition Services and Connect for Success

FIU Connect4Success (C4S)

C4S was featured as an exemplary 2+2 targeted pathway at the September 10–11 Board of Governors meeting. Emily Sikes, SUS Vice Chancellor for Academic and Student Affairs, highlighted early advising, student engagement, access to resources, and discipline-specific exposure as key drivers of the program's success. These practices contributed to a 78% three-year graduation rate for students on this pathway.

Financial Aid

Disbursement

As of October 22, 2025, the final 2024-2025 aid disbursed totaled \$534.9 million to 42,401 students vs the final 2023-2024 aid disbursed totaled \$507 million to 42,376 students. The change in calculating need increased our Pell grant numbers from \$120 million with a little over 22,000 students to \$144 million with a little over 24,000 students.

University Registrar

Launched the Co-Curricular Experiential Learning Transcript (CCELT)

The Registrar's Office has successfully launched the Co-Curricular Experiential Learning Transcript (CCELT). Partnering with IT and the Credentialing Learning Office within the Division of Academic Affairs. The CCELT showcases important student skills, experiences, personal development, and career readiness, serving as a powerful tool to enhance their competitiveness for employment, scholarships, workforce opportunities, and graduate or post-graduate programs. The transcript is organized into ten categories that represent co-curricular and experiential learning activities available to students at FIU, aligned with the State University System-wide definitions for experiential learning.

II. FACULTY SENATE

From September 18th to October 25th, the Faculty Senate (FS) met twice and the Steering Committee three times. Below are some highlights:

September 2025

- The Steering Committee approved the creation of an ad-hoc Committee of Academic Freedom
- The Honorary Degree Committee developed the rules for applying for Faculty research funding for Summer 2026
- Faculty Get-Together on September 18th was sponsored by the Chaplin School of Hospitality and Tourism

October 2025

- The Steering Committee appointed Kivash Bahreini (School of Computing and Information Science), Thomas Breslin (SIPA), Yordanka Delionado, (College of Law), Juan Gomez (College of Law), Tamara LaCroix (College of Nursing) and Joerg Reinhold (CASE) to serve in the Ad-hoc Constitution and Bylaws Committee.
- The Steering Committee appointed Martha Schoolman, Neil Reisner, Zachary Levenson, Christopher Jimenez, Howard Wasserman and Katie Rainwater to the ad-hoc Academic Freedom Committee. Martha Schoolman will chair the committee.

- Faculty Senator Victor Uribe was appointed to represent Faculty Senate in the College of Law Dean search committee.
- The Steering Committee appointed Faculty Senator Gregory Murad Reis to join the Search Committee for the Dean of the College of Engineering and Computation.
- The Faculty Senate discussed ACFS resolution on Safeguarding Free Expression in the SUS of Florida, however, did not endorse it.
- ACFS chair and Governor Kim Dunn addressed the Faculty Senate and provided a short presentation on the Commission for Public Higher Education (CPHE) and on ACFS point-of-view/strategy.

III. FLORIDA INTERNATIONAL UNIVERSITY AND BAPTIST HEALTH SOUTH FLORIDA COLLABORATION

1. Joint Graduate Medical Education

All GME programs, including the brand-new FIU/Baptist Urology residency program are now receiving applications for the next group of trainees to begin in July 2026. In addition, the Internal Medicine program recently received an outstanding report and continuing accreditation from the ACGME. New programs in OB/Gyn and Radiation Oncology were recently approved by the Steering Committee and applications for programs in Cardiology, Critical Care Medicine, Hematology-Oncology, and Thoracic Surgery have been submitted. The Education Committee is now working on applications for programs in Anesthesiology, Gastroenterology, Hospice and Palliative Medicine, and Orthopedic Surgery.

2. Joint Research Initiatives

The Research Committee recently held its second annual Research Symposium, where recipients of pilot funding presented updates on their ongoing projects. Recruitment efforts remain active, with a particular focus on attracting multiple research PhDs to expand research opportunities. Meetings with the Huron consultants continue as we review the current F&A rates and evaluate potential proposed rates. The goal of both workgroups is to maximize funding opportunities and enhance HERD reporting for the College.

3. Clinical ACC Assessment

Physician recruitment has entered phase 2 of its recruitment efforts, with a focused emphasis on adding Orthopedics and Neuroscience services to the faculty practice. Discussions are underway regarding the 2026 physicians service agreements (PSA's), with efforts focused on developing the year 2 productivity-based compensation model and securing approval from both parties. Monthly operating reviews are being held to review ongoing integration efforts at the ambulatory care center practice site. The MRI lease at the Center for Imaging Studies was approved at Baptist and is now pending IT integration for an anticipated launch ~Q1 2026.

4. Joint Marketing

The FIU ACC monument signage was installed on October 10, marking a key milestone in the project. The committee continues to collaborate on a range of joint marketing and communications initiatives, including media relations, social media engagement, sponsorships, co-branding efforts, and internal communications strategies.

5. Medical Center

All design development documents for the new medical center have been completed and signed, and construction documents are currently in progress with 50% CD's due on October 29, and 100% CD's due on December 22. The construction budget estimate is under review with GMP issuance targeted for March 10, 2026. Preparations are underway for early release of demolition and foundation work,

scheduled to begin in January 2026. Permits are expected to be issued by January 2, with demolition anticipated to start shortly thereafter on January 5.

IV. INFORMATION TECHNOLOGY

1. FIU Mobile App Update

During the early Spring 2025 semester, the Division of Information Technology (IT) launched a completely redesigned FIU Mobile App. The updated application was developed to significantly enhance the student experience by offering a more intuitive, user-friendly interface and a suite of new features designed to meet the diverse needs of the university community. Students can now seamlessly access essential services—including course schedules, grades, campus maps, and real-time notifications—all aimed at simplifying their academic journey and fostering a more connected and engaging campus environment.

The Division will soon introduce an additional update focused on employees. This upcoming release will enable employees to easily view their sick and vacation balances, while managers will gain streamlined access to approvals and team information. Faculty members will benefit from enhanced functionality, including the ability to view class rosters, teaching schedules, the Adoptions & Insights Portal (AIP), and Student Perceptions of Teaching surveys (SPOTs), along with a variety of additional tools and features designed to support their academic roles. The app currently holds a 4.5-star rating in the Apple App Store.

2. Windows 11 Upgrade

The Division of Information Technology (IT) has been collaborating closely with university colleges and business units to upgrade managed devices to Windows 11. With Microsoft ending support for Windows 10 on October 14, 2025, these upgrades are essential to maintaining the university's compliance with current security standards and protecting institutional IT resources. The IT community has been working diligently to meet this deadline, and as of the deadline date, 86% of eligible devices have successfully been upgraded to Windows 11.

Windows 11 introduces a modern, user-friendly interface designed to enhance productivity, strengthen security, and deliver a more seamless user experience. The new operating system provides improved performance and efficiency by leveraging advancements in hardware to ensure smoother operation. Enhanced security features, including TPM 2.0 support, further safeguard against emerging cyber threats. The Division of IT remains committed to supporting all university units through the transition and ensuring full compliance across the institution.

3. Classroom Technology Updates

The Division of Information Technology continues to drive innovation by delivering advanced solutions that enhance teaching and learning, ultimately enriching the overall student experience. The Division's Media Technology Services Audio-Visual Team has upgraded several general classrooms across both the MMC and BBC campuses—including in the new Innovation building—with new teaching technologies. These upgrades feature new projectors, screens, teaching podiums, podium computers, touchscreen controls, and studio-quality cameras that support ad-hoc recording and video conferencing capabilities.

In addition to these classroom enhancements, the team has integrated similar technologies into new construction projects and completed the installation of cutting-edge audio-visual systems in eight advising rooms and eight conference rooms. By modernizing these learning and collaboration spaces, the Division underscores the critical role technology plays in fostering dynamic, interactive, and accessible

educational experiences—empowering both faculty and students to teach, learn, and engage more effectively in an increasingly digital academic environment.

V. RESEARCH AND ECONOMIC DEVELOPMENT / UNIVERSITY GRADUATE SCHOOL

1. External Grant Awards' Performance

During the first quarter of fiscal year (FY) 2025–2026, the value of awards received increased by 21%, from \$79.6 million to \$96.2 million. Notable increases among various colleges include a 105% increase (from \$9.1M to \$18.6M) for the Robert Stempel College of Public Health and Social Work. The College of Engineering and Computing shows a 36% increase (from \$18.76M to \$25.5M), The Herbert Wertheim College of Medicine shows an increase of 25% (from \$5.3M to \$6.6M), with over 50% derived from the Center for Translational Science (CTS).

Funding received by centers and institutes has increased by 57% (from \$36M to \$56.5M). The Information Technology Center for Internet Augmented Research & Assessment (IT CIARA) saw a 509% (from \$1.5M to \$9.2M), while the Jack D. Gordon Institute for Public Policy experienced a 697% increase (from \$472K to \$3.8M). The Center for Children and Families experienced an increase of 8% (from \$6.8M to \$8.7M), the Institute of Environment had an increase of 4% (from \$14M to \$14.6M). These awards included one (1) initial federal award in AmLight: Federal government funding increased its share of total awards from 77% to 87%, rising by 13% despite a decrease in total dollars. In contrast, funding from private/other sources and state & local government declined both in dollar amount and percentage share, dropping by 68% and 18%, respectively.

2. Innovation and Economic Development

During the first quarter of FY 2025–2026 (July through September), three FIU faculty teams began preparing proposals for the NSF I-Corps program with support from Innovation and Economic Development FIU, and three additional teams are pursuing other NSF commercialization grants. Dr. Josh Hutchinson's team received a \$50,000 NSF I-Corps award. Another faculty team presented a proposal to the Knight Foundation; discussions are ongoing. FIU also supported Dr. Pulugurtha's team in applying to three national accelerators—Plug and Play Ventures, HAX, and UC Berkeley SkyDeck—for funding a semiconductor startup. Innovation and Economic Development participated in seven regional and national events focused on research and faculty entrepreneurship. Its faculty commercialization workshop series and the Hacker Nation program resumed in September 2025 after the summer break. FIU continues to lead a \$10.3 million, five-year EDA Risk & Resilience Tech Hub (RRTH) grant in partnership with the University of Miami, Titan America, and Carbon Limit, focused on developing and commercializing advanced infrastructure materials. Innovation and Economic Development FIU is building support systems for startups in the Tech Hub and mapping workforce needs to guide training and commercialization strategies. As part of the grant, Dr. Atorod Azizinamini delivered a webinar on high-performance concrete to 45 industry stakeholders. Over 200 participants attended RRTH-sponsored events this quarter. In terms of innovation and commercialization activity, FIU recorded 22 invention disclosures, filed 21 patent applications, and was awarded 15 patents—14 in the U.S. and 1 Foreign (Japan). A total of eight (8) licenses or options were executed, generating \$86,065 in licensing revenue as of September 30th.

3. University Graduate School (UGS)

As of September 30, 2025, FIU received 3,187 Ph.D. applications, a 4.6% increase from last year. Master's applications totaled 9,869, down 5.7%, while Specialist program applications increased from 55 to 589. Admissions rose by 3.1% overall, with increases in Master's (4.1%) and Specialist (26%) programs. However, Ph.D. admissions declined by 4.8% (30 fewer students). Graduate enrollment is down 4.8% overall compared to last year, including a decline in Ph.D. enrollment by 43 students (11.35%)

and master's by 101 students (4%). Specialist enrollment increased slightly by 3 students (18%). Enrollment growth was seen in Doctoral Programs in Nursing & Health Sciences (+42.5%) and CASE (+26%), with contributions from Psychology, Earth & Environment, and Teaching & Learning. Master's enrollment increased in Nursing & Health Sciences (+18%), Public Affairs (+27%), CASE (+8.4%), Engineering (+10%), and Public Health (+17%). Declines were noted in Doctoral programs such as Public Health (–59%), Business (–14%), Engineering (–8.8%), and Arts (–44%), as well as in master's programs in Business (–2%), Arts (–8.7%), and Hospitality (–5%). FIU renewed its MOU with the FAMU Graduate Feeder Program, supporting students admitted to selected doctoral programs. UGS launched a new Graduate Publishing Fund (up to \$2,500 per student) and hosted its largest-ever in-person Fall Orientation with over 400 students, alongside an online platform completed by 292 students. A virtual orientation for thesis and doctoral students drew 89 attendees. UGS awarded 25 Dissertation Year Fellowships, 33 Housing Fellowships, and additional fellowships supporting research and degree completion. Key programs such as the 3MT Competition, Writing Fellows, and NSF GRFP Writing Group were launched. Graduate Professional Development (GPD) workshops were held with over 100 total attendees, and FIU's Electronic Theses and Dissertations were downloaded over 61,000 times from Digital Commons.

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**Herbert Wertheim
College of Medicine**

Florida International University
Office of Graduate Medical Education
Annual Institutional Review Report
Academic Year 2024–2025

Report submitted by:

Sudhagar Thangarasu, MD, FACP, SFHM
Designated Institutional Official (DIO)
Associate Dean for GME

Reporting Period: July 1, 2024 through June 30, 2025

Date Submitted to Board of Trustees: November 20, 2025

Introduction

The Office of GME (OGME) and the Graduate Medical Education Committee (GMEC) at the Florida International University (FIU) Herbert Wertheim College of Medicine (HWCOM), are committed to excellence in GME. This Annual Institutional Review (AIR) provides a comprehensive overview of the institution's strengths, areas for improvement, and action plans to address challenges and maintain Accreditation Council for Graduate Medical Education (ACGME) standards.

I. Institutional Accreditation Status

- Continued Accreditation status effective June 20, 2023, with no current citations.
- Next Self-Study due July 1, 2031; 10-Year Site Visit scheduled for July 1, 2033.

II. Institutional Leadership Changes

- On January 21, 2025, Dr. Sudhagar Thangarasu assumed the role of Designated Institutional Official (DIO) for FIU. Dr. Thangarasu previously served as Assistant Dean for Graduate Medical Education and Founding Residency Program Director at Texas Tech University Health Sciences Center, El Paso, bringing extensive experience in GME leadership and program development.
- On June 18, 2025, the Board of Governors of the State University System of Florida officially confirmed Ms. Jeannette Nunez as FIU's seventh president, ensuring continued institutional growth and progress.

III. Summary of Institutional Performance and Goals

AY 2024-2025 Key Updates:

- Successful Sponsoring Institution (SI) transition to FIU of Baptist Health South Florida (BHSF) GME training programs in Family Medicine, Internal Medicine, General Surgery, Neurology, Diagnostic Radiology, Interventional Radiology, Orthopedic Sports Medicine, Hand Surgery, and Primary Care Sports Medicine.
- ACGME approval of applications for new FIU-BHSF program in Urology.
- Successful match for inaugural class of residents in Internal Medicine (30), General Surgery (10), Neurology (4), and Diagnostic Radiology programs (5).
- Continued Accreditation status received for Baptist Health programs in Internal Medicine and Diagnostic Radiology.
- New Program Director has been appointed to lead the legacy FIU Primary Care Internal Medicine Program based at the Miami Veterans Affairs (VA-IM) hospital.
- Program Special Review completed for the VA-IM program to address the underperforming areas in the annual survey results.

AY 2025-2026 Action Plan:

- Successful match for inaugural class of residents in the new Urology residency program.
- Successful launch of training for residents in Urology and Diagnostic Radiology.
- ACGME approval of applications for new FIU-BHSF residency programs in Anesthesiology, Obstetrics and Gynecology, Integrated Interventional Radiology, and Transitional Year; and fellowship programs in Cardiovascular Medicine, Critical Care Medicine, Hematology-Oncology, Thoracic Surgery, and Hospice and Palliative Care Medicine.
- Completion of the Special Review Committee recommended action plan for the VA-IM program.
- Finalization of plans for FIU Psychiatry training program.
- Tracking performance indicators is a key function of the GMEC (see Appendix A. Special Review policy, an Appendix B. Program Assessment Metrics). Indicators will be tracked more comprehensively as additional programs are accredited and residents/fellows initiate training.

IV. Program Accreditation

Existing Programs

- All programs achieved full match completion during the recruitment cycle, with no positions requiring offers through the Supplemental Offer and Acceptance Program (SOAP).
- During the 2024–2025 academic year, the following programs underwent ACGME Continued Accreditation site visits and received continued accreditation statuses:
 - Diagnostic Radiology Residency Program – March 2025
 - Hand Surgery Fellowship Program – May 2025
 - Internal Medicine Residency Program – April 2025

New Programs

- July 2025 marked the inaugural classes for three new programs:
 - Internal Medicine Residency Program
 - Neurology Residency Program
 - General Surgery Residency Program
- FIU has submitted applications for the following new residency and fellowship programs:
 - Urology Residency Program
 - Completed site visit and received Initial accreditation in September 2025.
 - Currently interviewing for residents to start July 2026.
 - Transitional Year Residency Program
 - Completed initial accreditation site visit in October 2025.
 - Review committee decision expected January 2026.
 - Cardiovascular Disease Fellowship Program
 - Submitted application June 2025.
 - Review committee decision expected January 2026.
 - Thoracic Surgery Fellowship Program
 - Submitted application June 2025.
 - Review committee decision expected January 2026.
 - Hematology Oncology Fellowship Program
 - Submitted application June 2025.
 - Review committee decision expected January 2026.

Accreditation Status

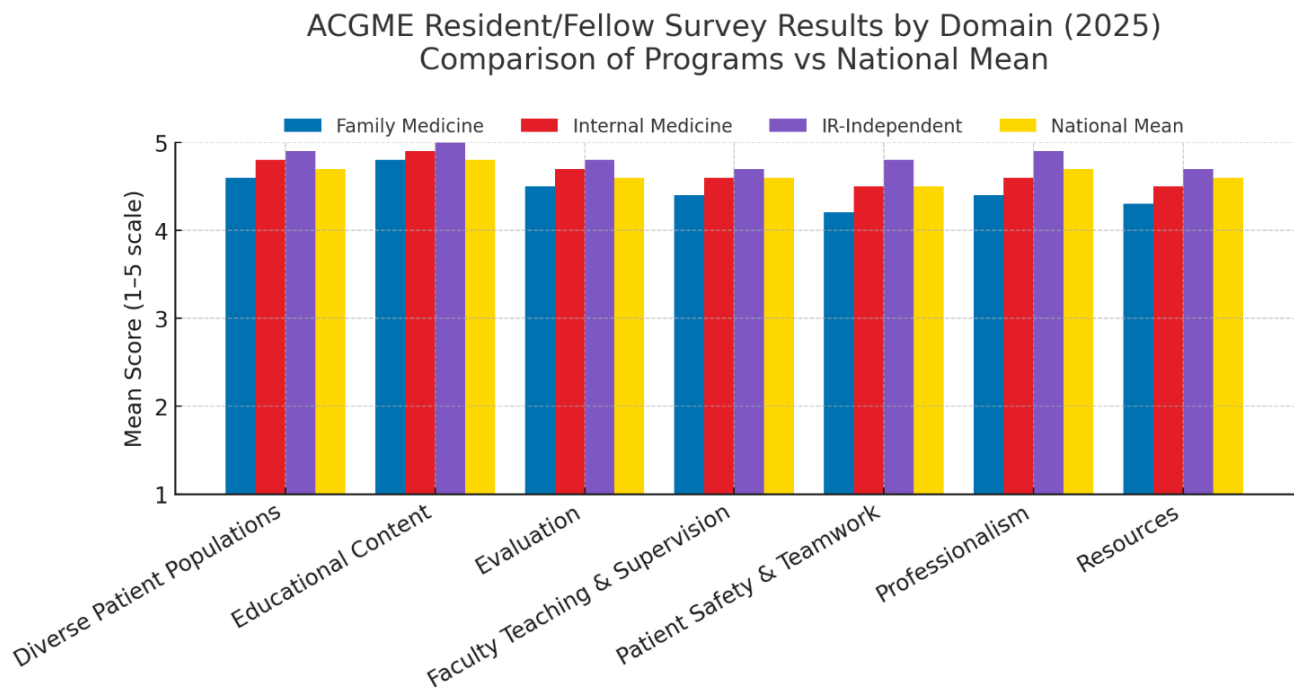
- ACGME citation review demonstrates that most programs remain in full compliance with accreditation standards. Only two programs currently hold citations:
 - Internal Medicine (BH) received one citation addressing Facilities and Clinical Space, emphasizing the need for dedicated GME areas.
 - Hand Surgery (Orthopedic Surgery) holds two citations, related to Well-Being Policy and Multisource Fellow Evaluation form.
- Both programs have corrective action plans underway, with continued monitoring by the Graduate Medical Education Committee (GMEC) to ensure compliance and timely resolution.
- Collectively, these findings reflect an overall strong accreditation standing for the institution, highlighting effective oversight and responsiveness to areas identified for improvement.
- Current program status:

Program	Accreditation Status	Effective Date	Citations	Primary Training Site	Total Approved Positions
Family Medicine	Continued	1/22/2025	None	WKBH	12
Internal Medicine (VA)	Continued	1/24/2025	None	VAMC	18
Interventional Radiology-Independent	Continued	2/5/2025	None	BHM	7
Orthopedic Sports Medicine	Continued	1/10/2025	None	DH	2
Sports Medicine (FM)	Continued	1/22/2025	None	DH	1
General Surgery	Initial	9/19/2024	None	BHM	30
Hand Surgery (Orthopedic)	Initial	7/1/2022	Well-being policy; Multisource Fellow Evaluation	DH	2
Internal Medicine (BH)	Initial	4/8/2022	Clinical space	BHM	78
Neurology	Initial	4/5/2024	None	BHM	16
Radiology – Diagnostic	Initial	1/26/2023	None	BHM	20

V. Program Evaluation

Residency Programs – Trainee Survey Comparison

The figure below displays the mean scores from the 2025 ACGME Resident Survey across major domains for Family Medicine, Internal Medicine-VA Miami, and Interventional Radiology–Independent programs. Scores are compared to national means:



Residency Programs – Trainee Survey Summary

Internal Medicine Residency program at VA-Miami

- Multiple areas for improvement identified across domains.
- Per GMEC performance indicator review and policy (see Appendix A Special review Policy), a Special Review was conducted in July 2025.
- The review identified opportunities for improvement in communication between residents and leadership, consistency of supervision, and timeliness of feedback.
- The special review report was approved by the GMEC in August 2025.
- The DIO provided recommendations and action plans to the PD and the department chair.
- Under new PD leadership, program will implement the recommendations over the next 3-6 months.
- The GMEC will review the actions and outcomes, if applicable, every quarter until satisfactory outcomes are demonstrated.

Family Medicine Residency program at West Kendall Baptist Hospital

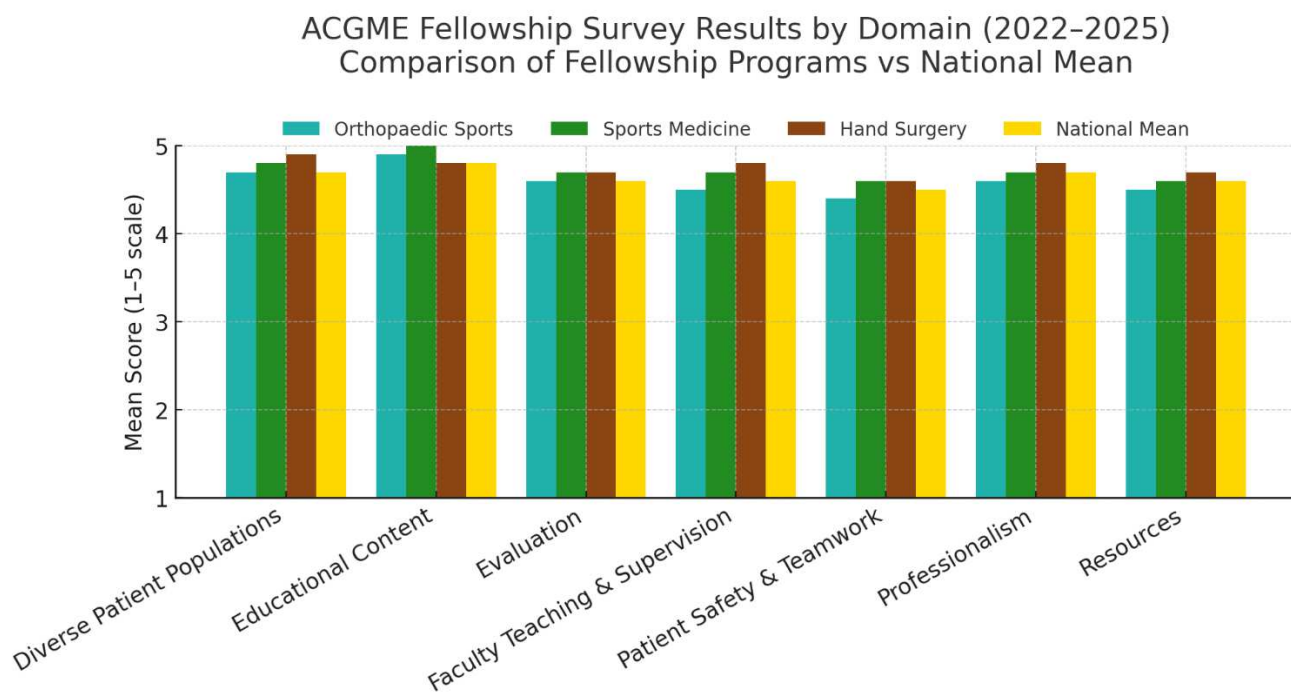
- The Family Medicine Residency Program demonstrated overall strong performance on the 2025 ACGME Resident/Fellow Survey, meeting or exceeding national averages across all domains.
- Program strengths included educational content, supervision, and professionalism, with residents reporting high satisfaction with learning experiences and faculty engagement.
- Continued emphasis on maintaining a supportive learning environment and ongoing faculty development will help sustain these positive outcomes.

Interventional Radiology Residency – Independent at Baptist Hospital

- Survey results scored at or above the national means across all ACGME survey domains, reflecting excellent faculty teaching, supervision, professionalism, and resident wellness support.
- All fellows indicated satisfaction with their educational experiences and patient safety culture. The program will continue to maintain these high standards through regular feedback collection and ongoing quality improvement activities

Fellowship Programs – Trainee Survey Comparison

The figure below displays the mean scores from the 2025 ACGME Fellow Survey across major domains for the Orthopedic Sports Medicine, Hand Surgery, and Sports Medicine fellowships. Scores are compared to national means:



Note: Programs with fewer than four fellows (Orthopedic Sports Medicine, Sports Medicine, and Hand Surgery) receive multi-year aggregate ACGME survey data.

Fellowship Programs – Trainee Survey Summary

Orthopedic Sports Medicine Fellowship at Doctors Hospital

- Exceptional multi-year performance (2022–2025), consistently achieving mean scores of 4.8–5.0 across nearly all domains.
- Fellows reported 100% compliance in professionalism, patient safety, and educational content, with top ratings in faculty supervision and teaching quality.
- These results indicate a stable, high-quality learning environment with strong faculty engagement and effective oversight.

Hand Surgery Fellowship at Doctors Hospital

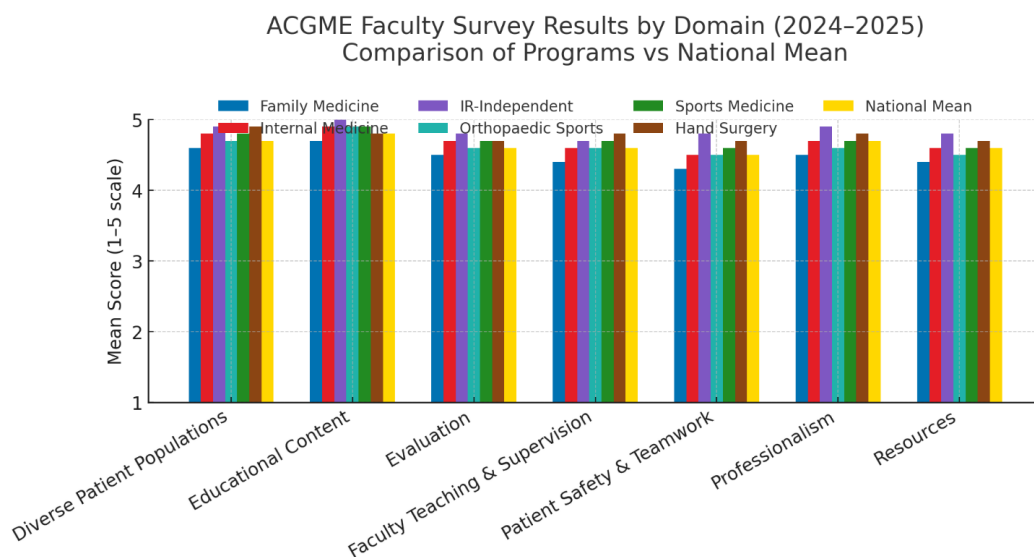
- Fellows reported high satisfaction with faculty professionalism, supervision, and patient safety culture, with mean scores approaching 5.0.
- Educational content, evaluation processes, and scholarly opportunities also exceeded national averages.
- Specialty-specific data highlighted fellows’ confidence in achieving competence for independent practice and strong exposure across operative and non-operative care settings.

Primary Care Sports Medicine Fellowship at West Kendall Baptist Hospital

- Scores across major domains, including professionalism, evaluation, and educational content are below national averages.
- Faculty engagement, scholarly activity, and attention to wellness were strengths.
- Opportunities exist to further enhance interprofessional teamwork and structured feedback mechanisms, which are being addressed through faculty development and quarterly fellow check-ins.

All Programs – Faculty Survey

The figure below displays the mean scores from the 2025 ACGME Faculty Survey across major domains for all programs. Scores are compared to national means:



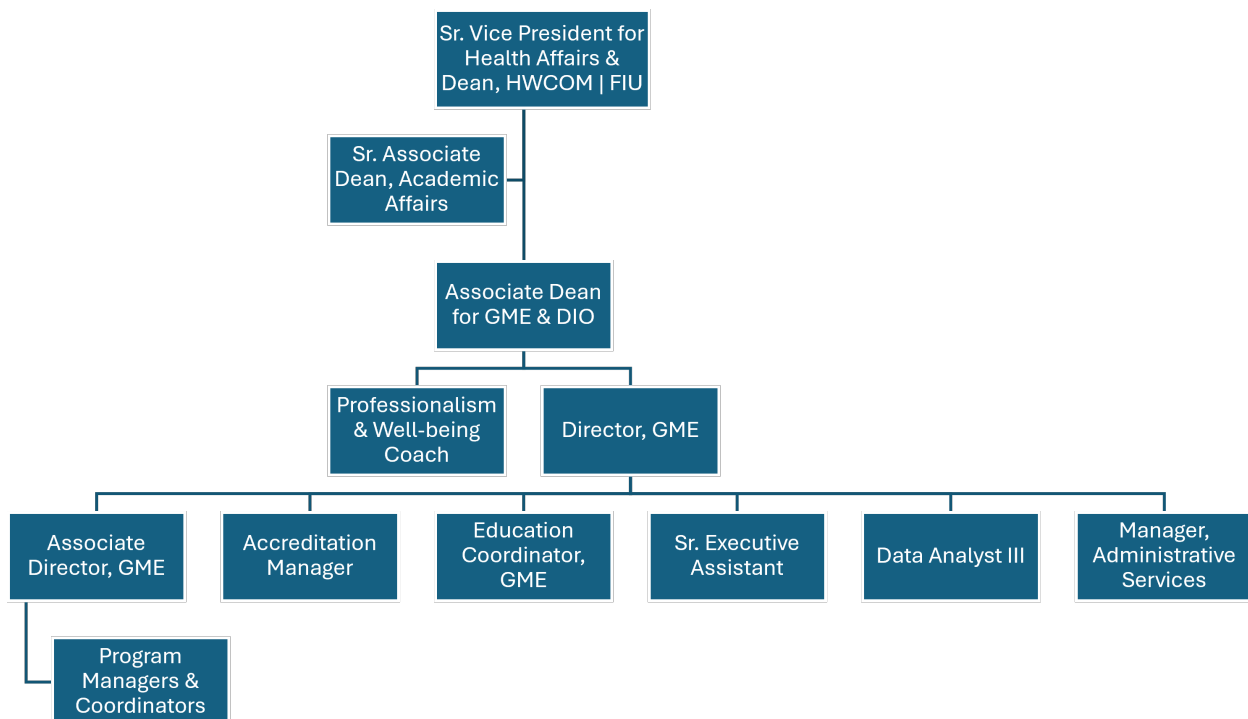
All Programs – Faculty Survey Summary

- Internal Medicine (VA-Miami) program displayed averages lower than the national mean levels across all domains.
- Across all other programs, faculty responses demonstrate consistently strong performance in every core category.
- Particular strengths include Professionalism, Patient Safety & Teamwork, and Educational Content.
- The Family Medicine and Hand Surgery programs achieved the most uniform excellence, surpassing national means in nearly every domain.
- Interventional Radiology – Independent and Orthopedic Sports performed particularly well in Teaching & Supervision and Professionalism, reflecting strong faculty engagement and effective program leadership.
- Overall, the institution’s aggregated results for Baptist Health based programs suggest a robust faculty learning environment, with shared strengths in professionalism, patient safety culture, and educational quality across all programs.

VI. Institutional Oversight and Infrastructure

Office of Graduate Medical Education

- New DIO/Associate Dean for GME started in January 2025.
- Growth of the OGME with new roles supporting the launching and expansion of GME programs.
- Revised structure and roles of OGME staff and organizational chart:



Graduate Medical Education Committee and Subcommittees

- The Graduate Medical Education Committee (GMEC) will play a critical role in overseeing the implementation and evaluating the effectiveness of the action plans developed through this Annual Institutional Review process and from the Annual Program Evaluations (APE) from each program.
- Based on the annual evaluations, the GMEC will determine if any adjustments or modifications to the action plans are necessary. The committee may decide to continue, expand, or discontinue certain initiatives depending on their demonstrated effectiveness. All changes to the action plans will be documented in the GMEC minutes and incorporated into the following year's AIR.
- Realigned GMEC structure and function to reflect revised goals:

COMMITTEE	MEETING FREQUENCY	CHAIR AND MEMBERS	FUNCTIONS
GRADUATE MEDICAL EDUCATION COMMITTEE	Monthly	• Chair: DIO-Sudhagar Thangarasu, MD. • All Program Directors are voting members, peer selected resident/fellow representatives, APDs, Administrative leaders from FIU, Baptist Health and VA Miami.	• Oversight of all GME programs' structure and functions as per the ACGME regulations and program requirements.
ACCREDITATION & EVALUATION SUBCOMMITTEE	Monthly	• Chair: Christopher Senkowski, MD. • GMEC member volunteers.	• Review of applications, policies and PD nominations, send recommendations to GMEC for approval.
WELLBEING COMMITTEE	Quarterly	• Chairs: Ana Rivas Vazquez, PhD, Lorena Bonilla, MD. • Peer selected representatives from residency and fellowship programs, wellbeing champions and expert consultants.	• Safe space to discuss ongoing issues in GME programs, that affect wellbeing. Make a confidential report and summarize recommendations to the GMEC.
SPECIAL REVIEW COMMITTEE	Ad hoc	• Ad-Hoc appointed by DIO. • A special review policy establishes criteria, process and outcomes of this committee.	• Review programs identified by established criteria to provide recommendations to DIO and PD.
HOUSE STAFF ASSOCIATION	Monthly	• All residents and fellows.	• Sends peer selected representatives to GMEC and well-being committees. • Chief residents/fellows bring recommendations and reports to PDs.

Policies

- Several Institutional policies were newly drafted or revised and approved by the GMEC.
- Key policies reviewed include those addressing trainee leave, supervision, wellbeing and disciplinary action.

Infrastructure Improvements - Enhanced Training Facilities

- A new resident and fellow lounge at South Miami Hospital and renovations of the lounge at Baptist hospital were completed, featuring:
 - Multiple sleep rooms for trainee rest
 - Dedicated computer stations for educational activities
 - Full kitchen area for meal preparation and storage
 - Private study rooms for academic work and preparation

VII. Conclusion

The 2024–2025 Annual Institutional Review demonstrates significant institutional progress, sustained accreditation strength, and strategic expansion of FIU’s graduate medical education portfolio. The successful transition of multiple Baptist Health South Florida programs, coupled with the launch of new residencies and positive accreditation outcomes, reflects the institution’s growing capacity and commitment to high-quality training. Resident, fellow, and faculty survey data collectively highlight a robust educational environment marked by strong performance in professionalism, patient safety, supervision, and curricular quality. Identified areas requiring improvement—most notably within the VA-Miami Internal Medicine program—are being addressed through formal oversight mechanisms, including a Special Review and targeted action plans. Concurrent enhancements to GME infrastructure, governance structures, and trainee support facilities further strengthen institutional readiness for continued growth. As FIU advances into the 2025–2026 academic year, it remains well-positioned to expand its GME offerings, uphold ACGME standards, and foster a culture of continuous quality improvement across all programs.

Appendix A: Special Review Policy

Policy#: 025.000
Policy Title: Special Review Committee
Sponsor: Sudhagar Thangarasu, MD; DIO
Approved by: Graduate Medical Education Committee

Purpose

The Graduate Medical Education Committee (GMEC) is responsible for the oversight of the quality of each Florida International University (FIU)—sponsored graduate medical education program. It is the responsibility of the GMEC to identify whether an ACGME accredited program is underperforming or is at risk for underperforming, and to develop a process to oversee the program's improvement process. This policy applies to all ACGME-accredited Graduate Medical Education programs sponsored by FIU.

Definitions

A. A **Special Review Process (SRP)** is conducted by the ad-hoc **Special Review Committee (SRC)** committee appointed by the DIO to:

- i. Assist the underperforming program to achieve compliance with ACGME program standards as stated in the ACGME Institutional and Program Specific Requirements, IRC I.B.6 - The GMEC must demonstrate effective oversight of underperforming program(s) through a Special Review process. (Core).
- ii. Engage (through an internal mock site visit) the Program Director, Program Coordinator, faculty, and residents in improving the quality of the educational program.
- iii. Assure compliance with the quality improvement plans developed by the programs.

B. **Committee membership and terms:**

i. Term:

This being an ad-hoc committee, all members of this committee serve for the duration of the SRP; the committee dissolves at the end of the SRP after submitting the **Special Review Report (SRR)** to the DIO.

ii. SRC Membership:

- a) Each member should be from a program other than the one being reviewed.
- b) Membership will include two (PDs or APDs) GMEC members from within the Sponsoring Institution, one of whom will be designated by the DIO as the Chair of the SRC.
- c) Membership will include at least one resident/fellow from (another program not in special review) within the institution.
- d) Membership will include the Director of the Office of Graduate Medical Education or Designee.
- e) Other internal members may be appointed at the discretion of the DIO and may include members of senior leadership, experts/consultants in professional development or Human Resources or other hospital departments with a role in resident/fellow education or support.
- f) External consultants from outside the institution may be appointed at the discretion of the DIO.

iii. Member selection process:

Initial request from OGME staff/DIO requesting volunteers, followed by individual requests if there are not enough volunteers to fill the roles. Senior residents in their final graduating year of training are preferred, and PDs/PCs can identify a senior resident, or a fellow based on their schedule availability and leadership skills fit for this committee. Resident/Fellow participation must not interfere with their clinical duties. Only those available during elective time or with adequate coverage should be considered.

C. Action Plan (AP)

AP is the response of the Program Director (PD) to the SRR. This action plan will include specific actions and timelines to correct areas of underperformance and estimated dates of resolution.

Procedure(s)

- A. The GMEC will identify underperformance based on established criteria. This may include, but is not limited to, the following:

Performance Indicators

	Criteria	GREEN	YELLOW	RED
1	Accreditation Status	Continued	--	With Warning / Probation
2	Number of Program Citations	0	1 – 2	3 or more citations
3	Results of the most recent ACGME survey (March-April) of residents/fellows	All areas at or above specialty mean	1-3 areas non-compliant	>3 areas non-compliant
4	Results of the most recent Internal (Oct-Nov) annual survey of residents/fellows	≥90% positive, ≤5% negative	≥80% positive, ≤7% negative	<80% positive, >10% negative
5	Results of the most recent ACGME (March-April) survey of Faculty	All areas at or above specialty mean	1-3 areas non-compliant	>3 areas non-compliant
6	Resident/Fellows Attrition per AY	0 – 10%	11 – 20%	More than 20%
7	Specialty Board Pass Rates in the last 3 years	Meets criteria set by the ACGME Review Committee		Does Not meet criteria
8	Clinical & Educational Work Hours Compliance per AY	90 – 100%	80 – 89%	Below 80%
9	Core Faculty GME Specific Development Training per AY	100%	More than 50% Completion	Less than 50%

10	Faculty evaluation of residents performance completion rate per AY	Above 80% Completed within 2 wks from end of rotation	70 – 79% Completed within 2 wks	Below 70% Completed within 2 weeks
11	Extenuating circumstance(s): Examples- Suicide attempt/death of resident/fellow, Sudden resignation of PD or multiple faculties, Egregious behavior complaint on resident/fellow/faculty etc.	---	---	Will be discussed at GMEC and voted if SRP is needed.

B. Criteria to trigger a GMEC agenda item to vote for Special Review Process:

- Any 2 indicators in RED or
- Any 1 indicator in RED plus any 2 indicators in YELLOW or
- Any 3 indicators in YELLOW

C. The DIO will assemble a Special Review Committee (SRC) within 15 working days of the GMEC vote and the mock site visit or the SRP will be done withing 15 working days after the SRC is convened.

The SRC will include the following materials (policies and data specific to the program in SRP) for review as part of the SRP; however, other materials may be requested by the committee. The following materials should be provided to the SRC for review ten days prior to the mock-site visit meeting.

- Faculty and Residents/Fellows enlist five strengths and opportunities to improve in the program.
- Full copies of resident and faculty survey results, including the well-being surveys.
- Updated program details from the Accreditation Data System (ADS) printed out as PDF.
- Past three years of scholarly activities, (just lists/links; copies of articles/posters not required.)
- Past year's annual didactics schedule and attendance data.
- Duty hours data.
- Block diagram
- Miscellaneous: Awards, recognitions of both faculty and residents in the past year.
- Faculty development sessions with attendance data.
- Current Annual Program Evaluation (APE) report.
- Evaluation of resident/fellow by faculty - completion rate (total and % completed within 2 weeks at end of rotation).
- Evaluation of faculty by residents - completion rate and summarized narratives pages for the current academic year only.
- Two or more samples of Semi-annual (December) evaluations and annual evaluations (May-June) completed (2 samples for each year of training)
- Latest available ITE results.
- Two samples of completed 360-degree evaluation of residents/fellows.
- List of committees participated by residents/fellows and faculty.
- QI projects lists and statuses.
- Wellbeing initiatives and activities.
- Resident/Fellow handbook

20. Jeopardy policy or details if it is included in the handbook.
21. Leave policy
22. Remediation/Disciplinary action policy

D. The SRC will conduct two meetings (virtual or in-person or hybrid if applicable for timeliness and efficiency of the SRC):

- i. **Meeting #1** – this meeting will take approximately 30 minutes:
The SRC will meet with the Designated Institutional Official (DIO) for orientation, members roles and responsibilities, timelines, review the highlights of the initial findings from the materials in the SRC folder.
This meeting can be scheduled for the same day as meeting #2, just prior to starting meeting #2 or a few days ahead if needed.
- ii. **Meeting #2** – this meeting will take approximately 4.5 hours:
The SRC interview sessions will be in the following template:

First 30 minutes	Special Review Committee huddle • DIO • SRC chair • Two GMEC physician members (PDs or APDs from another program) • Director of GME or Designee • Accreditation Manager or Designee • A senior resident or fellow from another program
60 minutes	• SRC members (without resident/fellow member) • PD of the program in special review • APD(s) of the program in special review • PC(s) of the program in special review
40 minutes	SRC members (without resident/fellow member) with five Faculty Members in the program in special review
30 minutes	SRC Chair and senior resident/fellow member with residents/fellows of the graduating class (sometimes with the class in pre-final year of training for programs with more than three years of training)
30 minutes	DIO and senior resident/fellow member with residents/fellows in class(es) other than first and final year of training
30 minutes	GMEC faculty member of SRC and senior resident/fellow member with residents/fellows in first year of training
45-60 minutes	All Committee members debrief

- b. The SRC Chair will submit the SRR within ten (10) business days of meeting #2 to the Designated Institutional Official (DIO)
- c. The DIO reviews the report with the Program Director and includes any relevant comments before presenting it at the next monthly GMEC meeting for review and approval.
- d. At a minimum, the SRR will contain:
 - i. Citations or Areas for Improvement (AFIs)
 - ii. A summary of relevant findings
 - iii. Recommended Action Plan(s)
 - iv. Timeline

- e. The Program Director will review and adopt recommendations for the continued improvement of the quality of the program with the final intended outcome of resolving the deficiencies in performance metrics that triggered the SRP.
- E. Monitoring of Outcomes
- a. The GMEC will monitor the outcomes of the AP as follows:
 - i. The program will provide quarterly progress reports on the AP to the GMEC until performance indicators are in compliance as per the indicators noted above.

Author	Sudhagar Thangarasu MD	5-12-2025
Revised	Claudia Pace, Sudhagar Thangarasu MD.	7-7-2025
DIO Review	Sudhagar Thangarasu, MD; DIO	8-13-2025 8-25-2025 9-4-2025
GMEC Approval	Reviewed and approved	9/18/2025

Appendix B. Program Assessment Metrics

1. Notification letter of the ACGME accredited Sponsoring Institution accreditation status
2. Notification letter of the ACGME accredited program accreditation status
3. Program length
4. # of Residents-Fellows/Approved residents/fellows
5. Next ACGME visit
6. Citations
7. Annual Program Evaluation (APE) approval by GMEC
8. Results of the most recent ACGME survey of residents
9. Results of the most recent ACGME survey of faculty members
10. Results of the most recent institutional annual survey of residents for the program
11. Results of resident specialty board pass rate
12. Case log data
13. Stability in leadership, attrition
14. Stability in resident/fellow complement, attrition
15. Stability in participating Sites
16. Special Review Committee recommended
17. Status or outcome of the Special Review Process: In review Vs Recommendations approved Vs Action plans completed.
18. Graduating residents/fellows outcomes: Job practice details, retention to South Florida vs Florida vs employed to one of our affiliate organizations.

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