

Yiming Ji, Ph.D.

Professor and Chair
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EDUCATION

- Auburn University Computer Science May 2006 Ph.D.
- Southern Polytechnic State University Computer Science Dec. 2002 M.S.
- Nanjing Univ. of Aeronautics and Astronautics Aerodynamics Mar. 1995 M.S.
- Nanjing Univ. of Aeronautics and Astronautics Aerodynamics July 1992 B.S.

EMPLOYMENT

- July 2019 – Present Professor and Chair, Department of Information Technology
Georgia Southern University (GS)
 - Program Development
 - Initiated a new BIT online program in Spring'20, the program now enrolls more than 250 students
 - Co-developed a new Ph.D. program in Applied Computing
 - Initiated collaboration with Fort Stewart and Hunter Army Airfield to offer the MSIT program to military-connected students
 - Initiated articulation agreement (MOU) with various technical colleges, including Georgia Military College, Savannah Technical College, and Ogeechee Technical College, enabling students to transfer to GS IT programs, including both the face-to-face BSIT program and the BIT online program
 - Accreditation & Assessment
 - Led and completed ABET reaccreditation process in 2020-2021
 - Led and completed the cybersecurity redesignation process for the National Center of Academic Excellence in Cyber Defense (CAE-CD) in June 2023
 - Led and completed comprehensive program reviews for BSIT (2019-20), BIT online (2021-22), and MSIT (2023-24)
 - Grants
 - Led a team of faculty and secured a \$2.5 million NSF grant to build the future IT workforce (PI, 2023-2029)
- July 2006 – June 2019 University of South Carolina Beaufort (USCB)
 - 07/2018 – 06/2019 Professor and Chair, Department of Computer Science
 - 07/2017 – 06/2018 Professor and Interim Chair
Department of Mathematics and Computational Science
 - 08/2013 – 06/2019 Professor and Program Director of Computational Science
 - 08/2010 – 06/2013 Associate Professor and Program Director of Comp Science

- 08/2007 – 08/2010 Assistant Professor, Computer Science
- 08/2006 – 08/2007 Instructor. Computer Science
- Program Development
 - Developed a B.S. program in Computational Science (2010)
 - Developed a M.S. program in Computational Science (2019)
 - Developed a B.S. program in Information Science and Technology (2019)
 - Launched a new Department of Computer Science (2018)
- Grants
 - Secured 11 grants of about \$11 million, mainly from NSF
- Jan. 2006 – Aug. 2006 Assistant Professor, Dept. of Computer Science, Benedict College, SC
 - Offered 5 courses in Computer Science
- Aug. 2002 – Jan 2006 Auburn University, AL
 - 08/2003 – 01/2006 · Research Assistant
 - 08/2002 – 08/2005 · Teaching Assistant
- May 2001 – Aug. 2002 Research Assistant, Southern Polytechnic State University, GA

HONORS, GRANTS, AND AWARDS

A. Honors

- [1] **Carolina Trustees Professorship**, University of South Carolina, 2019.
- [2] **Breakthrough Leadership in Research Award**, University of South Carolina, 2018.
- [3] **Academic Advisor Award**, University of South Carolina Beaufort, 2017.
- [4] **Governor’s Award for Excellence in Science Research**, South Carolina, 2016.
- [5] **Breakthrough Rising Star**, University of South Carolina, 2010.

B. Grants

B.1 Recent Proposals

- [1] “ETD: Data Exploration with Google Looker Studio, NSF 2-585, H. Jin (PI), Y. Ji (Co-PI), \$ 489,585.00, Aug. 2024. (Under Review)
- [2] “Advancing Government Cybersecurity Workforce Readiness for Today's Rapidly Evolving Technological Demands,” NSF 23-574, Y. Ji (PI), A. Mohamed (Co-PI), L. Chen (Co-PI), \$2,617,831.00, July 2024. (Under Review)
- [3] “CUE-T: Transformative Educational Resource Hub for Elevated Workforce Readiness in Emerging Computing Technology Areas,” NSF 24-553, Y. Ji (PI), A. Mohamed (Co-PI), L. Chen (Co-PI), C. Bolton-Gary (Co-PI), \$ 1,999,988.00, May 2024. (Under Review)

B.2 Funded Projects

- [1] Title: Enabling Lifelong Success in the Information Technology Workforce
 Source: NSF, Award # 2321939

- Grant Amount: \$2,490,223.00
 PI: **Yiming Ji** (PI), Elise Cain (Co-PI), Lei Chen (Co-PI), Hayden Wimmer (Co-PI)
 Funding Period: 7/12/2023 – 6/30/2029
 Link: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2321939&HistoricalAwards=false
- [2] Title: Computational Science and Modelling in Materials Engineering
 [Sub-award of the NSF “RII Track 1: Materials Assembly and Design Excellence in South Carolina: MADE in SC”]
 Source: National Science Foundation, Award # OIA-1655740
 Grant Amount: \$898,037.00
 PI: **Yiming Ji**
 Funding Period: 09/01/2017 – 08/30/2022
 The grant was managed by another faculty at USCB after Ji transferred to Georgia Southern University in July 2019.
https://www.sc.edu/about/offices_and_divisions/system_affairs/internal/system_spotlight/2018/spotlight_beaufort_03292018.php
- [3] Title: RII Track-2 FEC: Bridging Cognitive Science and Neuroscience Using Innovative Imaging Technologies
 [Sub-award of an NSF EPSCoR RII (Track II) grant. Leading PI: Dr. Peter W Kalivas, Professor and Chair, Dept. of Neuroscience, MUSC]
 Source: National Science Foundation, Award #1539034
 Grant Amount: \$149,860.00
 PI: **Yiming Ji** (PI), Xuwei Liang (Co-PI)
 Funding Period: 08/01/2015 – 07/31/2019
- [4] Title: Building a USC Interdisciplinary Team to Study the Impacts of Anthropogenic Noise on the Behavior of Marine Organisms
 Source: Advanced Support for Innovative Research Excellence (ASPIRE) II, University of South Carolina
 Grant Amount: \$99,619.00
 PI: Eric Montie (PI, Biology, USCB), **Yiming Ji** (Co-PI), Matthew Kimball (Co-PI, USC Columbia)
 Funding Period: 07/01/2017 – 09/30/2019
 Link: https://www.uscb.edu/academics/academic_departments/school-of-science-and-mathematics/computer-science/research.html
- [5] Title: Enabling the Future: Scholarships in Computational Science (CSci)
 Source: National Science Foundation, Award #1259283
 Grant Amount: \$601,650.00
 PI: **Yiming Ji** (PI), Brian Canada (Co-PI), Xuwei Liang (Co-PI), Kasia Pawelek (Co-PI)
 Funding Period: 06/01/2013 – 05/30/2018
 Link: https://www.nsf.gov/awardsearch/showAward?AWD_ID=1259283&HistoricalAwards=false
- [6] Title: Computational Science at the University of South Carolina Beaufort
 [sub-award of the NSF EPSOR Research Infrastructure Improvement (RII) Program]

- Source: National Science Foundation, Award # 1317771 (1-year extension)
 Grant Amount: \$50,000.00
 PI: **Yiming Ji**
 Funding Period: 07/01/2016 – 06/30/2017
- [7] Title: 2009 Research Infrastructure Improvement Grant
 Source: National Science Foundation, Award # 1317771
 Grant Amount: \$9,029,853.00
 PI: Prakash Nagarkatti (PI, Provost of the University of South Carolina),
Yiming Ji (Co-PI)
 Funding Period: 02/01/2013 – 06/30/2016
 Link: https://www.nsf.gov/awardsearch/showAward?AWD_ID=1317771&HistoricalAwards=false
- [8] Title: NSF NeTS: Dynamic Indoor Location Computing and Benchmarking
 Source: National Science Foundation, Award # 0916012
 Grant Amount: \$184,495.00
 PI: **Yiming Ji**
 Funding Period: 09/01/2009 – 08/31/2012
 Link: https://www.nsf.gov/awardsearch/showAward?AWD_ID=0916012&HistoricalAwards=false
- [9] Title: SharkBytes - Engaging student interest in STEM at USC Beaufort
 Source: Heritage Classic Foundation/Verizon Foundation Partnership
 Grant Amount: \$7,500.00
 PI: **Yiming Ji**
 Funding Period: 2012-2013
 Link: https://www.uscb.edu/academics/academic_departments/school-of-science-and-mathematics/computer-science/pdfs/SharkBytes_Report_2013_.pdf
- [10] Title: MGS: Research on 3-D Dynamic Indoor Radio Propagation Model
 Source: Magellan Scholar award, SC Research Foundation
 Grant Amount: \$2,500.00
 PI: **Yiming Ji**, Robert Player (Research Assistant)
 Funding Period: 05/01/2010-04/30/2011
 The research presentation/poster won **the first-place award** in the Computer Science and Engineering division on USC Discovery Day.
- [11] Title: Summer Research with Undergraduate Student
 Source: NSF, Distributed Research Experiences for Undergraduates
 Grant Amount: \$5,000.00
 PI: **Yiming Ji**, Jonathan Bello-Mejia (Research Assistant)
 Funding Period: 05/30/2012-08/05/2012
- [12] Title: Summer Research with Undergraduate Student
 Source: NSF, Distributed Research Experiences for Undergraduates
 Grant Amount: \$4,000.00
 PI: **Yiming Ji**, Jonathan Bello-Mejia (Research Assistant)
 Funding Period: 05/30/2011-08/05/2011

C. Other Awards and Certificates

- [1] Funded Student Technology Fee proposal (STF00037), \$5,995.00. Feb 21, 2023. [Used for the NetLab+ VE virtual IT Lab]
- [2] Certificate of Completion, 2022 Kevin Mitnick Security Awareness Training, Sept. 2022
- [3] Certificate of Seminar for Department Chairs, Council of Colleges of Arts & Sciences (CCAS), Feb. 2018
- [4] Certificate of Service, ten (10) years of university service, University of South Carolina Beaufort, May 2017
- [5] Certificate of Service, Institute for Systems and Technologies of Information, Control, and Communication (INSTICC), 2014, 2015, 2016, 2017, 2018
- [6] Recognition of Service Award, Association for Computing Machinery (ACM), 2012
- [7] Certificate, Aerospace Career Awareness Certificate, SC, 2012 [South Carolina Aerospace Career Awareness is an outreach program for middle and high school students; the goal is to promote the understanding of STEM and stimulate interest in STEM majors.]
- [8] Certificate, CATIA Certificate, Inceptra, LLC, 2011
- [9] The Best Paper Award, Intl. Conference on Computer and Information Application, 2010
- [10] Certificate, Yamacraw Certificate, Southern Polytechnic State University, 2002 [Yamacraw is a Georgia state-funded research initiative that aims to make Georgia a world leader in the design of broadband communications systems.]
- [11] Fellowship, Vodafone-U.S. Foundation, Auburn University, 2005-2006 [Vodafone is the world's largest mobile telecommunication network company.]
- [12] Fellowship, Auburn Alumni Council, Auburn University, 2003-2005

ACADEMIC PROGRAM DEVELOPMENT and ACCREDITATION

A. Academic Program Development

- [1] Ph.D. of Applied Computing, Georgia Southern University
Program start date: Aug. 2024
Role: co-author of program proposals to the University System of Georgia (USG) Board of Regents (BOR) (approved May 16, 2023) and SACSCOC (approved Nov. 24, 2023)
- [2] B.S. of Information Technology (Online program), Georgia Southern University
Program start date: Jan. 2020.
Role: program coordinator
- [3] M.S. of Computational Science, University of South Carolina Beaufort
Program Start date: Aug. 2019
Role: author of program proposals to SC-CHE and SACSCOC

- [4] B.S. of Science in Information Science and Technology, University of South Carolina Beaufort
Program Start date: Aug. 2019
Role: author of program proposals to SC-CHE and SACSCOC
- [5] B.S. of Science in Computational Science, University of South Carolina Beaufort
Program Start date: Aug. 2010
Role: author of program proposals to SC-CHE and SACSCOC

B. ABET Accreditation

- [1] B.S. of Science in Information Technology, Georgia Southern University
Program evaluation date: 2020-2021.
Re-accreditation was confirmed on Aug. 16, 2021, with no deficiencies, weaknesses, or concerns.
Role: co-author of the self-study report, author of the ABET display website

C. Other Program Development Activities

- [1] M.S. of Information Technology at the Fort Stewart-Hunter Army Airfield Education Center (AEC), MOU signed in July 2023
- [2] A.S. of Information Technology on the Georgia Southern University, Liberty Campus, Fall 2023.
- [3] B.S. program MOU with technical colleges (Ogeechee Tech (2019), US Army Cyber Center of Excellence, Fort Gordon, GA (2022), (Savannah Tech 2022), Georgia Military College (2023)).
- [4] Internship program MOU with regional medical centers (East Georgia Regional Medical Center (Apr. 2023), HCA Florida Capital Hospital (May 2023), and Houston Healthcare-Warner Robins, Apr. 2023).

SCHOLARSHIP

A. Publications

■ Books, Chapters, and Journals:

- [1] Yavas C, Lei C, Kadlec C, Ji Y, Predictive Modeling of Earthquakes in Los Angeles with Machine Learning and Neural Networks, in *IEEE Access*, vol. 12, pp. 108673-108702, 2024, [doi: 10.1109/ACCESS.2024.3438556](https://doi.org/10.1109/ACCESS.2024.3438556).
- [2] Ji Y, Marian AD, Montie EW (2024) Deep-learning-based detection of recreational vessels in an estuarine soundscape in the May River, South Carolina, USA. *PLoS ONE* 19(7): e0302497. <https://doi.org/10.1371/journal.pone.0302497>
- [3] Claire Mueller¹⁺, Agnieszka Monczak⁺, Jamileh Soueidan⁺, Bradshaw McKinney⁺, Somers Smott⁺, Tony Mills⁺, Chris Marsh⁺, Yiming Ji^{*}, and Eric W. Montie⁺. "Sound characterization and fine-scale spatial mapping of an estuarine soundscape in the Southeast United States," *Marine Ecology Progress Series*, May 18, 2020. [Selected as a MEPS **Feature Article** (FA)].

- [Contribution: developed new algorithms to analyze sound characteristics from underwater acoustic data files collected in May River, SC.] (+ Biology, * Computer Science)
- [4] Agnieszka Monczak⁺, Yiming Ji^{*}, Jamileh Soueidan⁺, and Eric W. Montie⁺. "Automatic Detection, Classification, and Quantification of Fish Acoustic Signals for Biologically Rich Estuarine Soundscapes in the Southeast United States," *PLOS ONE* 14(1): e0209914, Jan 16, 2019. (+ Biology, * Computer/Computational Science)
 [Contribution: developed a fish detecting software system to analyze fish acoustic signals for more than 100,000 data files per year in May River, SC.]
 (<https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0209914&type=printable>)
- [5] Agnieszka Monczak⁺, Claire Mueller⁺, Michaela Miller⁺, Yiming Ji^{*}, Stephen A⁺. Borgianini, and Eric W. Montie¹⁺, "Sound Patterns of Snapping Shrimp, Fish, and Dolphins in an Estuarine Soundscape of the Southeastern USA", *Marine Ecology Progress Series*, Dec., Vol. 609: 49–68, 2019, <https://www.int-res.com/abstracts/meps/v609/p49-68/>. Jan 17, 2019.
 [Contribution: developed a software system to detect snapping shrimp activities. The software counts the total snapping activities from acoustic files recorded in all years since 2013. Initially, the manual examination must be performed to estimate snapping shrimp activities on a 0-3 scale, where 0 means no activity, 1 means one clip, 2 refers to a few clips, and 3 refers to many clips.]
- [6] Yiming Ji, Lee Fair. "Intelligent Activity Awareness Systems - New Classification Method and Comparison Study," in *International Journal of Computational Research*, Vol. 2, No. 4, 54-61. Horizon Research Publishing, USA. 2014. Web:
<http://www.hrpub.org/download/20140701/CR4-13802323.pdf>.
- [7] Yiming Ji. "Dynamic 3-D Indoor Radio Propagation Model and Applications with Radios from 433MHZ to 2.4GHz," in *International Journal of Communications, Network and System Sciences*, Vol. 5, No. 11, Page 753-766, Nov. 2012. [>5,400 downloads by Oct. 2018, online:
<http://www.scirp.org/journal/PaperInformation.aspx?PaperID=24673>]
- [8] Yiming Ji. "Performance Analysis for Indoor Location Determination," *International Journal of Ad Hoc and Ubiquitous Computing (IAHUC): Special Issue on Wireless Network Algorithm and Theory*, Vol. 8, Nos. ½, 2011. Page 3-15. [online,
<http://inderscience.metapress.com/content/em31j114r4082811/>]
- [9] Yiming Ji. "Indoor Localization Robustness and Performance Improvement", *International Journal of Communication Networks and Distributed Systems: Special Issue on Scalable Wireless Networks*, Vol. 7, No. 1/2, 2011. Inderscience publishers. [online:
<http://inderscience.metapress.com/content/605730q3x05264u4/>]
- [10] Yiming Ji. "Indoor Location Determination: Environmental Impacts, Algorithm Robustness, and Performance Evaluation", in the book: "*Location-Based Services Handbook: Applications, Technologies, and Security*", CRC Press. 25 pages, 2010. (Book chapter)
- [11] Yiming Ji. "*Location Determination within Wireless Networks, Dynamic indoor/outdoor Localization Systems: Algorithm Design, Performance Analysis, and Comparison Study*," VDM Publishing House Ltd, Saarbrücken, Germany, 136 pages, Mar. 2009. ISBN: 978-3-639-12763-8. (Book)
- [12] Yiming Ji. "Dynamic Location Computing using Environmental Context," in *Journal of Wireless Communications and Mobile Computing*, 16 pages, Mar. 2009. [online:
<http://onlinelibrary.wiley.com/doi/10.1002/wcm.770/abstract>].

- [13] Lei Chen, Shaoen Wu, Yiming Ji, Ming Yang. “Mobile and Handheld Security,” in the book “*Handheld Computing for Mobile Commerce: Applications, Concepts, and Technologies*,” Chapter 16, pages 313-327. IGI Global, 2009. ISBN: 978-161692254-2. (Book chapter)
- [14] Yiming Ji, Saâd Biaz, Santosh Pandey, and Prathima Agrawal. “Dynamic Indoor Localization Using Wireless Ethernet: The ARIADNE System.” In the book *Wired/wireless Internet Communications*, Lecture Notes in Computer Science, vol. 3970/2006, pp. 299-310; Springer Berlin/Heidelberg, ISBN: 978-3-540-34023-2. (book chapter)
- [15] Shaoen Wu, Saâd Biaz, Yiming Ji, Bing Qi. “Base Station Assisted TCP: A Simple Way to Improve Wireless,” in book *Embedded and Ubiquitous Computing*, Lecture Notes in Computer Science, vol 4096/2006, pp. 630-641, Springer Berlin/Heidelberg, ISBN: 978-3-540-36679-9. (book chapter)
- [16] Saâd Biaz, Yiming Ji. “A Survey and Comparison on Localization Algorithms for Wireless Ad Hoc Networks.” *Int. Journal of Mobile Communications (IJMC)*, Vol. 3, No. 4, pp. 374-410, 2005.
- [17] Patrick Bobbie, Yiming Ji, and Lusheng Liang. “Transforming UML ‘Collaborating’ Statecharts for Verification and Simulation.” In *Journal of Systems, Cybernetics, and Informatics (JSCI)*, Vol. 1, No. 2, 2003.
- [18] Sun, Jianhong; Ji, Yiming; Ming, Xiao; Wu, Kaiyuan; Jiang, Weiming; Zhou, Hongbing. “Investigation of nonlinear gas oscillations in open pipes and application in atomization.” *Journal of Kongqi Donglixue Xuebao*, v 15, n 2, p 177-184, June 1997.
- **Refereed Conference Papers: (*student authors)**
- [19] Ajuluchukwu M*, Shalan A, Chen L, Ji Y and Balogun E. Low-Resolution Image Enhancement using Generative Adversarial Networks. *IEEE Annual Congress on Artificial Intelligence of Things (IEEE AIoT 2024)*. 24-26 July 2024 · Melbourne, Australia.
- [20] Jordan Stuckey*, Atef Shalan, Yiming Ji, and Lei Chen, Comparative Analysis of Black Box Attacks in Information Security, *Twenty Third International Conference on Security & Management (SAM'24)*, July 22-25, 2024, Las Vegas, USA.
- [21] Akpomedaye B*, Shalan A, Chen L, Ji Y, An Adversarial Training Approach for Defending Against Object Misclassification in Smart Vehicles. *The 2024 international conference on security and management (SAM'24)*, Las Vegas, July 22-25, 2024.
- [22] Onisha T A*, Walee N A*, Fojude M, Chen L, Ji Y, Detecting Fake Accounts and Identifying Malicious URLs on Social Networks using Deep Learning. *The 2024 international conference on security and management (SAM'24)*, Las Vegas, July 22-25, 2024.
- [23] Yavas C E*, Das J K*, Akpomedaye*, Chen L, Ji Y, Unlocking the Power of Machine Learning in Cybersecurity Forensics: Identifying Malicious Files. *The 2024 international conference on security and management (SAM'24)*, Las Vegas, July 22-25, 2024.
- [24] Adesola H*, Chen L, Ji Y, and Kim J, Robotics Process Automation in Cybersecurity Using Moveit Attack as a Case Study. *The 2024 international conference on security and management (SAM'24)*, Las Vegas, July 22-25, 2024.
- [25] Adaramola O O*, Odigbo C S*, Chen L, Kim J, Ji Y. Challenges in Blockchain Securities: Key Management & Decentralized Identity System. *The 2024 international conference on security and management (SAM'24)*, Las Vegas, July 22-25, 2024.
- [26] E. Elegwu*, L. Chen, Y. Ji, and J. Kim, A Novel Approach to Detecting and Mitigating Keyloggers. *IEEE SoutheastCon 2024*, Atlanta, GA. Mar 20-24, 2024.
DOI: [10.1109/SoutheastCon52093.2024.10500122](https://doi.org/10.1109/SoutheastCon52093.2024.10500122).

- [27] Jongyeop Kim, Jongho Seol, Tasnim Akter Onisha*, Yiming Ji, Hyper Parameter Classification on Deep Learning Model for Cryptocurrency Price Prediction, *The 8th IEEE/ACIS International Conference on Big Data, Cloud Computing, and Data Science Engineering (BCD 2023)*. Dec. 14-16, 2023. p 162-169. DOI: [10.1109/BCD57833.2023.10466319](https://doi.org/10.1109/BCD57833.2023.10466319)
- [28] Seongsoo Kim*, Lei Chen, Jongyeop Kim, Yiming Ji, Rami Hadad, A Comparative Study of Deep Learning Models for Hyper Parameter Classification on the UNSW-NB15, *21st IEEE/ACIS International Conference on Software Engineering, Management and Applications (SERA 2023)*, May 23-25, 2023, Orlando, USA. doi: [10.1109/SERA57763.2023.10197694](https://doi.org/10.1109/SERA57763.2023.10197694).
- [29] Seongsoo Kim*, Yiming Ji, Eric Montie, Jongyeop Kim, Dolphin Whistles Visualization Framework: MySQL Query Approach, *19th IEEE/ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2022)*, May 25 – 27, 2022, Las Vegas, Nevada. <https://ieeexplore.ieee.org/document/9806470>.
- [30] Yiming Ji, Lee Fair*. “Sensor Feature Analysis - A Study of Mobile Activity Awareness for Smart Health and Wellbeing,” *International Conference on Electrical Engineering and Computer Science (EECS)*, Hong Kong, Dec. 19-21, 2013. (* undergraduate research assistant).
- [31] Yiming Ji, Player Robert*. “A 3-D Indoor Radio Propagation Model for WiFi and RFID,” in the *9th ACM International Symposium on Mobility Management and Wireless Access (MobiWac 2011)*, Miami, FL, Oct 31 - Nov. 4, 2011. (One of 15 accepted regular papers, acceptance rate 25.8%) (* undergraduate research assistant).
- [32] Yiming Ji, Austin Canfield*. “SolarEscort: A Self-Dependent Positioning and Information System,” in *4th IEEE International Conference on Computer Science and Information Technology (IEEE ICCSIT 2011)*, June 10-12, Chengdu, China, 2011. (Acceptance rate 28%) (* undergraduate research assistant).
- [33] Yiming Ji. “Practical Precision Bound for Indoor Location Determination,” *International Conference on Computer and Information Application (IEEE ICCIA’10)*, December 3-5, 2010, Tianjin, China. (Best Paper Award).
- [34] Yiming Ji. “Ultimate Precision Bound and Comparison Study of Dynamic Indoor Localization Systems,” in the *16th European Wireless Conference (EW2010)*, April 12-15, 2010. Lucca, Italy.
- [35] Yiming Ji, Lei Chen. “Dynamic Indoor Location Determination: Mechanisms and Robustness Evaluation”, in the *Sixth International Conference on Autonomic and Autonomous Systems, Infosys, IEEE*. March 7-13, 2010. Cancun, Mexico. (Acceptance rate: 27%)
- [36] Yiming Ji. “Navigation Using Environmental Constraints,” in the *6th IEEE Consumer Communications and Networking Conference CCNC’09*, January 10 – 13, 2009 in Las Vegas, Nevada. (Acceptance rate 33.4%)
- [37] Yiming Ji, Gordon Sproul, Saâd Biaz. “FreeMobility: Dynamic Localization using GIS,” in *IEEE Wireless Communications and Networking Conference (IEEE WCNC’08)*, March 31-April 3, 2008. (World’s foremost international technical conference for engineers and researchers, 1253 total submissions.)
- [38] Saâd Biaz, Bing Qi, Yiming Ji. “Improving Expected Transmission Time Metric in Multi-Rate Multi-Hop Networks,” in the *Fifth Annual IEEE Consumer Communications &*

Networking Conference (IEEE CCNC'08), Jan 10-12, 2008. Page: 533-737. (Acceptance rate: 32%)

- [39] Yiming Ji, Saâd Biaz, Shaoen Wu, Bing Qi. "Optimal Sniffers Deployment for Wireless Indoor Localization," in 16th *International Conference on Computer Communications and Networks* (IEEE ICCCN'07). Aug. 13-16, 2007. (Acceptance rate 29%)
- [40] Yiming Ji, Saâd Biaz. "Impact of Sniffers Deployment On Wireless Localization: A Theoretical Analysis," in the 7th *International Conference on Computational Science and Its Applications* (ICCSA'07); Kuala Lumpur, Malaysia. Aug. 26-29, 2007; 14 pages. (Withdrawn, visa issue). (Acceptance rate 28%)
- [41] Saâd Biaz, B. Qi, S. Wu, Yiming Ji. "Evaluation of Multi-Radio Extensions to DSR for Wireless Multi-Hop Networks," *International Conference on Wireless Information Networks and Systems* (WINSYS'07), Barcelona, Spain. July 28-31, 2007.
- [42] Bing Qi, S. Biaz, S. Wu, Yiming Ji. "An Interference-Aware Routing Metric in Multi-radio Multi-hop Networks," 45th *ACM Southeast Conference*, Winston-Salem, North Carolina, Mar. 23-24, 2007. (One of the oldest continuously held computer science conferences in the nation)
- [43] Yiming Ji, Saâd Biaz, Santosh Pandey, and Prathima Agrawal. "ARIADNE: A Dynamic Indoor Signal Map Construction and Localization System." In 4th *International Conference on Mobile Systems Applications and Services - MobiSys 2006*, Uppsala, Sweden. June 2006. (Acceptance rate 15%) (Of 123 total submissions, only 19 papers were accepted for presentation and publication)
- [44] Yiming Ji, Saâd Biaz, Shaoen Wu, Bing Qi. "Impact of Building Environment on the Performance of Dynamic Indoor Localization." In 8th *Annual IEEE Wireless and Microwave Technology Conference* (IEEE WAMI), Dec. 2006 (142 total submissions from 25 countries)
- [45] Yiming Ji, Saâd Biaz, Santosh Pandey, and Prathima Agrawal. "Dynamic Indoor Localization Using Wireless Ethernet: The ARIADNE System." In 4th *International Conference on Wired/Wireless Internet Communications*, Bern, Switzerland. May 2006. (Acceptance rate 20.4%). (Of 142 total submissions, only 29 papers were accepted).
- [46] Shaoen Wu, S. Biaz, Yiming Ji, B. Qi. "Base Station Assisted TCP: A Simple Way to Improve Wireless," In *IFIP International Conference on Embedded and Ubiquitous Computing* (EUC-06), 2006.
- [47] P.O. Bobbie and Yiming Ji. "Modeling and Synthesizing Event-Driven Simulators from Collaborating UML Statecharts," the 10th *IASTED International Conference on Software Engineering and Applications* (SEA'06), Nov. 13-15, 2006. Dallas, Texas.
- [48] Saâd Biaz, Yiming Ji, Prathima Agrawal. "Impact of Sniffers Deployment on the Indoor Localization." In *IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing* (CollaborateCom), Dec. 2005. (The first international conference on Collaborative Computing, San Jose, CA.)
- [49] Saâd Biaz, Yiming Ji. "Precise Distributed Localization Algorithms for Wireless Networks," In *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks* (WoWMoM), pages 388-394, June 2005. (Acceptance rate 20.5%) (Premier international forum, of 180 total submissions, only 39 papers were accepted for presentation)
- [50] Saâd Biaz, Yiming Ji, Bing Qi, and Shaoen Wu. "Realistic Radio Range Irregularity Model and Its Impact on Localization for Wireless Sensor Networks." In *IEEE International Conference on Wireless Communications, Networking and Mobile Computing* (IEEE

WCNM), pages 669-673, Sept. 2005. (Acceptance rate 24%). (The first international conference for wireless communications researchers and industry professionals)

- [51] Saâd Biaz, Yiming Ji, Bing Qi, and Shaoen Wu. "Dynamic Signal Strength Estimates for Indoor Wireless Communications. In *IEEE International Conference on Wireless Communications, Networking and Mobile Computing (IEEE WCNM)*, pages. 606-610, Sept. 2005. (Acceptance rate 24%) (The first international conference for wireless communications researchers and industry professionals)
- [52] Saâd Biaz, Yiming Ji. "Improvement and Comparison of Localization algorithms under Imprecise Measurements." In *International Association for Computer Information Systems (IACIS), Pacific 2005 Conference*, pages. 593-600, May 2005.
- [53] Yiming Ji, Kai Chang, Chi-Cheng Hung. "Efficient Edge Detection and Object Segmentation Using Gabor Filter." In *Proceedings of the 42nd Annual ACM Southeast Conference*, pages. 454 - 459, Apr. 2004. (One of the oldest continuously held computer science conferences in the nation)
- [54] Yiming Ji, Kai Chang. "Interactive Software Architecture Design with Modeling & Simulation." In *Proceedings of the 42nd Annual ACM Southeast Conference*, Apr. 2004.
- [55] Saâd Biaz, Yiming Ji. "A Glance at MAC protocols for Ultra-Wideband." In *Proceedings of the 42nd Annual ACM Southeast Conference*, Apr. 2004. (One of the oldest continuously held computer science conferences in the nation)
- [56] Patrick Bobbie, Yiming Ji, and Lusheng Liang. "Transforming UML Statecharts for verification and Simulation." In the *6th world multi-conference on Systems, Cybernetics, and Informatics (SCI 2002)*, July 14-18, 2002, vol. XVIII, pp. 61-66.
- [57] Patrick Bobbie, Yiming Ji. "Model Checking With sf2smv/SMV and Simulation of Parallel Systems." In *Proc. of the Huntsville Simulation Conference*, Oct. 2001. (Supported by the Yamacraw Research Initiative, which is now the GEDC, Georgia Electronic Design Center. This conference is dedicated to facilitating modeling and simulation)
- [58] Visali Buggineni, Patrick Bobbie, and Yiming Ji. "Automatic Java Server Page Generation with Embedded Logic Server." In *International Conference on Information Systems, Analysis, and Synthesis*, Vol. 11, 2002.

▪ **Posters:**

- [59] Alexis Roberson, Osano Saunders, Paul Cerrillo, Victoria Altfather, Krzysztof Lipski, Timberly Govan, USCB Rides, Research Day, USCB, Apr. 22, 2019. (**Second-place research award**).
- [60] Diana Arencibia, Baden Bennett, David Dietz, Matthew Holmes, Alexis Miller, Brittney Nesor, USCB Tutoring System, Research Day, USCB. April 22, 2019. (**Third-place research award**).
- [61] Brock Pivrotto*, Jonathan Dayton*, Peter Mize*, Benjamin Lipscomb*, Michelle Fernandez*, Ashley Fernandez*, Colin Placke*, Mitchell Tyner*, Jesus PunLay*, and Yiming Ji. "USCB Events and Activities Management System". Research Day, USCB, Apr. 17, 2017. (**Second-place research award**).
- [62] Connor Appel*, Ryan Craven*, Bahama Gardiner*, Alexis Hargett*, Osias Lozano*, Ashton Purvis*, Wesley Patti*, Ashton Purvis*, Demetrius Rhodes*, Stephen Vinciguerra*, and Yiming Ji. "GYM STAT". Research Day, USCB, Apr. 17, 2017.
- [63] La'Porcha Byers*, Calvin Calvert*, Michael Daniels*, Valtonyella Dickerson*, Trong Duc Le*, Rebecca Glen*, Austin Mishoe*, Carlos Romero*, Jennifer Shaw*, Joseph Tanner*, Alek

Wagner*, and Yiming Ji, “Espresso Lane”, Research Day, USCB, Apr. 18, 2016. (**First-place research award**).

[64] Z. Adams*, J. Bello*, T Farris*, B. Garrison*, B. Glesias*, C. Salmeron*, E. White*, Y. Ji. “Investing Software Development Process for Undergraduate Education using Project “USCB Textbook Exchange”, Research Day, USCB, April 21, 2015.

[65] Robert Player*, Yiming Ji. “A 3-D Dynamic Indoor Radio Propagation Model,” poster, *Undergraduate Research for Magellan Scholar Award*, University of South Carolina, April 22, 2011. (The poser won the **First-place research award** in the Division of Computer Science and Engineering).

[66] Yiming Ji, Saâd Biaz. “RF-Based Location Determination Techniques,” Poster, *Vodafone Fellows Initiative 2006 Symposium*, U.C. Berkeley, April 7-10, 2006.

* Undergraduate Students in Computational Science

+ Undergraduate Students in Biology

B. PATENTS

- [1] Yiming Ji, Principal Inventor, Positioning and Information Service without existing Communication and Power Networks, provisional patent application. Serial number: 61/528,897. 2011. (Provisional) [This system determines the geographic location and service information for a mobile device without the dependence on GPS, existing communication networks, and power supply networks. It may serve as a backup system to the GPS, it may also serve as an electronic billboard to provide information service to mobile users.]
- [2] Yiming Ji, Gordon Sproul, Dynamic Localization Using Geographical Information Systems (GIS). Mar. 19, 2009. (National/International application, Serial Number of 12/407,343) [Geographical Information System (GIS) and cellular networks are utilized to provide ubiquitous location information for mobile objects. Detailed theory and experimental results were presented in a paper in the *Journal of Wireless Communications and Mobile Computing* in 2009. This work has provided a new direction in dynamic outdoor location determination.]
- [3] Yiming Ji, Gordon Sproul, Dynamic Localization Using Geographical Information Systems (GIS). Mar 31, 2008-Mar 30, 2009. (Provisional)
- [4] Yiming Ji, Principal Inventor, Universal vehicle communication & management system. Number: 11/162501, 2005. (Provisional) [The system provides a unified management system for all vehicles nationwide. Typical management functions may include registration, insurance, billing (toll, parking, and others), tracking, speed management, security and emergency management, traffic management, etc. Given today’s technology, the implementation of such a system is highly realistic, and therefore, the benefit of such a system is potentially enormous.]

PROFESSIONAL SERVICES

A. Research Committees:

- [1] Program co-Chair, AIRC’25 (6th International Conference on AI, Robotics, and Control) conference, IEEE, Savannah, 2025
- [2] Member of the organizing committee for ICSAI 2025 (IEEE International Conference on Sustainable Artificial Intelligence) (Gandipet, Hyderabad, India).
- [3] TPC of the International EdTech Conference 2024 (IEdTC 2024)

- [4] TPC of the 5th International Conference on Computing, Networks, and Internet of Things (CNIOT 2024), 2024.
- [5] TPC of IEEE SoutheastCon, Engineering the Future. 2024
- [6] IARIA Journals, 2017-2024
- [7] TPC of SSCC'23, 9th International Symposium on Security in Computing and Communications. 2023
- [8] TPC of ISTA'23, Seventh International Symposium on Intelligent Systems Technologies and Applications, 2023
- [9] TPC of IETC 2023 (International EdTech Conference, Pune, India, Oct. 17-19, 2023.)
- [10] Steering Chair, 25th International Conference on Advances in Computer Technology, Information Science and Communications (CTISC 2023).
- [11] TPC of CNIOI 2023 (4th International Conference on Computing, Networks, and Internet of Things).
- [12] Steering Chair, 2022 International Conference on Frontiers of Communications, Information System and Data Science (CISDS 2022)
- [13] TPC of VEHICULAR 2022
- [14] TPC of ICNS 2022, 2023, 2024
- [15] TPC of the IEEE International Conference on Connected Systems & Intelligence (CSI) Committee. 2022
- [16] Technical Program Vice-Chair, IEEE InfoCom, the 5th IEEE International Workshop on Security, Privacy, And Digital Forensics of Mobile Systems and Networks. May 10-13, 2021.
- [17] TPC of ISIC 2021-22, International Academy, Research, and Industry Association (IARIA)
- [18] TPC of International Association of Electrical, Electronic and Energy, International Conference on Electric Vehicle and Vehicle Engineering, 2021
- [19] TPC of ACN'20, International Conference on Applied Soft Computing and Communication Networks (ACN'20).
- [20] TPC of SSCC'2020, International Symposium on Security in Computing and Communications.
- [21] TPC member, CocoNet'20 (Fourth International Conference on Computing and Network Communications).
- [22] TPC member of the IEEE Symposium on Computers and Communications (IEEE ISCC), 2008 – present
- [23] TPC member of the Smart Computing and Communications, 2020.
- [24] Member of the organizing committee for the MADE in SC Research Fellows Summer Symposium, 2018
- [25] TPC member of the IEEE ICCVE (International Conference on Connected Vehicles and Expo), 2019
- [26] TPC member of the ACN'19 (International Conference on Applied Soft Computing and Communication Networks), 2019
- [27] TPC member of the CoCoNet'19 (International Conference on Computing and Network Communications), 2019
- [28] TPC member of the International Conference on Cloud Computing and Services Science (CLOSER), 2010 – present

- [29] TPC member of the International Conference on Wireless Networks (ICWN) in World Congress on Engineering (WCE), 2007 – present
- [30] TPC member of the International Conference on Autonomic and Autonomous Systems, ICAS 2011 – present
- [31] TPC member for Symposium on Advances in Artificial Intelligence and Neurotechnology (AIN'18), 2018
- [32] TPC member of the CONNET 2017, The International Symposium on Advances in Content-oriented Networks and Systems, 2017.
- [33] TPC member of the VEHICULAR 2017-2023, The Sixth-Twelfth International Conference on Advances in Vehicular Systems, Technologies and Applications, 2017-present (2023)
- [34] TPC member of the IEEE International Conference on Connected Vehicles & Expo (ICCVE), 2015, 2016, 2017
- [35] TPC member of the International Conference on Wireless Communications and Signal Processing (WCSP), 2015.
- [36] TPC member of the Second International Symposium on Security in Computing and Communications (SSCC), 2014, 2015
- [37] International Conference on Internet of Vehicles, 2015
- [38] Technical Program Committee (TPC) member of the GLOBECOM 2014.
- [39] TPC member of the International Conference on Advances in Computing, Communications, and Informatics (ICACCI), 2014.
- [40] TPC member of the International Conference on Internet of Vehicles (IOV 2014)
- [41] TPC member of the IEEE/SAE/ACM/IFAC International Conference on Connected Vehicles & Expo, 2013
- [42] TPC member of the International Symposium on Security in Computing and Communications, 2013
- [43] TPC member of Globecom (GC 2012, 2013).
- [44] TPC member of the International Conference on Connected Vehicles & Expo (ICCVE), 2013
- [45] TPC member of the IEEE International Symposium on Computer and Communications), 2013
- [46] Local Arrangements Chair, ACM MobiHoc 2012,
<http://www.sigmobility.org/mobihoc/2012/index.html>
- [47] Program Committee for Special Session "Data Mining and Computational Intelligence for Digital Forensics and Information Assurance" in conjunction with IEA/AIE 2012.
- [48] TPC member of the ICACCI-2012 (International Conference on Advances in Computing, Communications, and Informatics), Chennai, India, 2012.
- [49] TPC member of the International Workshop on Advances in Pervasive Computing, 2012.
- [50] TPC member of the MobiCASE, the first International Conference on Mobile Computing, Applications, and Services, 2009
- [51] TPC member of the MobiCASE Workshop on Innovate Mobile, 2009
- [52] TPC member of the IMUI 2009 (1st International ICST Workshop on Innovative Mobile User Interactivity), 2009
- [53] TPC member of the International Workshop on Networking Traffic, QoS, Communication Channels and Security, 2009

- [54] TPC member of the International Conference On Computer Communications and Networks (IEEE ICCCN), 2007-2012
- [55] TPC member of the 2nd International Conference on Wireless Communications, Networking and Mobile Computing (IEEE WiCOM), 2006 (formerly WCNM)

B. External Reviewer:

- **Promotion and Tenure Review:** Faculty promotion review for the University of Washington Tacoma, July/August 2023.
- **Promotion and Tenure Review:** Faculty promotion review for the University of Michigan-Flint, August/September 2023.

- **ACM/IEEE Computing Curricula Reviewer:**

Fundamental material and recommend curriculum guidelines for the Computational Science program.

Approximately every 10 years, the ACM and IEEE Computer Society collaborate to produce a volume on Computer Science Curricula that provides recommendations and curricular guidelines for computer science programs at an international level. Society is now revising the 2001 and 2008 documents to produce the new 2013 volume, which will include a body of knowledge on computational science.

- **NSF Reviewer:** NSF Cyber-infrastructure Training, Education, Advancement, and Mentoring for Our 21st Century Workforce (CI-TEAM). 2010
- **NSF NeTS Panel Service and Ad Hoc Reviews** (2018)
- **RISE Reviewer**, University of South Carolina, 2015
- **MAGELLAN Scholar Reviewer**, University of South Carolina, Undergraduate Research, 2009 - 2019
- **South Carolina Academy of Science (SCAS) Reviewer and Judge**, Winthrop University, Rock Hill, SC, 2016
- **Scientific proposals for the KSEF's R&D Excellence award**, the Kentucky Science and Engineering Foundation (KSEF), 2015
- **Book reviewer**, Bentham Science publisher, e-book proposal, 2015
- **Promotion and Tenure:** King Saud University, Department of Information Technology, College of Computer and Information Sciences, Fall 2021

- **Publication Reviewer:**

- [1] Journal Of Environmental Informatics, Aug 2024
- [2] Journal of Cybersecurity and Privacy, May 2024
- [3] International Semantic Intelligence Conference, ISIC 2024 (University of Belgrade, Serbia October 17-19, 2024)

- [4] IEEE SACI 2024 (IEEE 18th International Symposium on Applied Computational Intelligence and Informatics (SACI 2024), May 21-25, 2024, in Siófok, Hungary and Timisoara, Romania.)
- [5] SoutheastCon 2024
- [6] Journal of IARIA (International Academy, Research, and Industry Association), 2013- present
- [7] The 7th International Symposium on Intelligent Systems Technologies and Applications (ISTA), 2023.
- [8] Applied Sciences, 2023
- [9] SACI 2023, 17th International Symposium on Applied Computational Intelligence and Informatics. May 23-26, 2023
- [10] International EdTech Conference 2023, Oct. 17-19, Ashta, India.
- [11] Journal of Sensors, 2021, 2022, 2023
- [12] Journal of Electronics, 2022, 2023
- [13] Journal of Symmetry, 2022
- [14] International Journal of Environmental Research and Public Health, 2022
- [15] International Conference on Connected Systems & Intelligence, 2022 (CSI'2022)
- [16] Health Care and Services for Elderly Population, Applied Sciences, 2022
- [17] Applied Sciences, 2021
- [18] Journal of Symmetry, 2021
- [19] The Seventeenth International Conference on Networking and Services (ICNS 2021), May 30- June 03, Valencia, Spain
- [20] The 5th International Conference On I-Smac (IoT In Social, Mobile, Analytics, and Cloud), organized on 19-20 April 2021 by St. Mother Theresa Engineering College (MTEC). 2020-2021
- [21] The 4th International Conference on Computing and Network Communications (CocoNet'20)
- [22] The 8th International Symposium on Security in Computing and Communications (SSCC'20)
- [23] International Conference on Applied Soft Computing and Communication Networks (CAN'20)
- [24] VEHICULAR 2017 -2023
- [25] ICNS 2020
- [26] IEEE Internet of Things Journal, 2020
- [27] CoCoNet2019, Third International Conference on Computing and Network Communications, 2019, Procedia Computer Science 00 (2019) 000–000.
- [28] Journal of Applied Sciences, 2019
- [29] Journal of Sensors, 2019
- [30] Journal of VEHICULAR 2019
- [31] ACN'19 (International Conference on Applied Soft Computing and Communication Networks), 2019
- [32] Journal of Electrics, 2018
- [33] IEEE ISCC conference, 2017, 2018
- [34] Journal of Data in Science, 2017
- [35] Journal of Applied Sciences, 2017
- [36] International Journal On Advances in Intelligent Systems, 2016
- [37] Journal of Sensors, 2016

- [38] British Journal of Mathematics & Computer Science, 2016
- [39] Advancement Research on Circuit and Systems International Conference (ARONCAS'2016), 2016
- [40] Journal of Location-Based Services, 2015, 2016
- [41] International Journal on Advances in Intelligent Systems, 2015
- [42] IEEE 2015 International Conference on Connected Vehicles & Expo (ICCVE), 2015
- [43] International Conference on Wireless Communications and Signal Processing (WCSP), 2015
- [44] International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (2015)
- [45] IEEE Symposium on Computers and Communications (ISCC), 2015, 2016
- [46] World Congress on Engineering (WCE), 2007 – present
- [47] Int. Symposium on Security in Computing and Communications (SSCC), 2014, 2015
- [48] IEEE Sensors Journal, 2014
- [49] International Journal On Advances in Intelligent Systems, 2014
- [50] The International Conference on Advances in Computing, Communications, and Informatics (ICACCI), 2014.
- [51] GC 2014 Communications Software, Services, and Multimedia Symposium
- [52] International Journal on Advances in Intelligent Systems, 2013
- [53] Journal of Pervasive and Mobile Computing, 2013
- [54] International Conference On Computer Communications and Networks (IEEE ICCCN), 2008, 2013
- [55] International Conference on Wireless Networks (ICWN) in World Congress on Engineering (WCE), 2008, 2009, 2010, 2013
- [56] IEEE Globecom (GC13), 2013.
- [57] Int. Conference on Advances in Computing, Communications and Informatics, 2013
- [58] IEEE Transactions on Mobile Computing, 2012
- [59] Journal of Ad Hoc Networks, 2011, 2012.
- [60] Journal of Transactions on Embedded Computing Systems, 2010
- [61] Journal of Engineering Computations, 2010
- [62] Journal of Mobile Networks and Applications, 2010
- [63] International Conference on Computing, Networking, and Communications, ICNC'12, 2011
- [64] IEEE International Conference on Computer Science and Information Technology (IEEE ICCSIT'11), 2011
- [65] IEEE Symposium on Computers and Communications (ISCC), 2008, 2009, 2010
- [66] IEEE Consumer Communications and Networking Conference, short paper, 2009
- [67] The Computer Journal, 2008, 2011
- [68] Journal of Wireless Communications and Mobile Computing, 2008
- [69] International Conference on Wireless Networks (ICWN'06), 2006ACM SE conference, 2005 and 2006
- [70] IEEE Communications Letters, 2005
- [71] Mobile Computing and Communications Review (MC²R), ACM SIGMOBILE, 2005
- [72] The 25th International Conference on Distributed Computing Systems, 2005

University Service:

- [1] Industry outreach for IT Internship Program, Mar 28, 2024; Apr. 3, 2024
- [2] Honors Scholars Day, Mar. 1, 2024
- [3] GHP, Dept. Program Review and Service, Feb 24, 2024
- [4] The future of IT, AGCO student faculty information session, Feb 16, 2024
- [5] Eagle Preview, Feb 3, 2024
- [6] Internship program coordinator, 2023
- [7] Celebrate Together, Oct. 19, 2023
- [8] Major Fair, Sept. 12, 2023
- [9] Member of the College committee to review and update P&T criteria (2023)
- [10] Prior Learning Assessment (PLA) Committee, 2023-24
- [11] “For the Love of Blue Campaign (FTLOB)” volunteer, 2023, 2024
- [12] First and Second Year Advisory Committee, 2023
- [13] Industry Expo, Judge and Moderator, 11/30/2021, 12/01/2022, 12/01/2023
- [14] Student Success: working with Advising Team to enhance ways of advising students (5/6/2022)
- [15] Judge of the Student Research Symposium (4/22/2022, 4/21/2023, 4/19/2024)
- [16] Student Engagement: virtual student tour (2/4/22, 2/18/22)
- [17] GS Eagle Preview (2/19/22, Statesboro)
- [18] GS Eagle Preview (11/13/21, Statesboro)
- [19] GS Undergraduate Research Council, reviewer of research assistantship applications Apr. 19-23, 2021
- [20] Student Research Symposium, Judge, Apr. 23, 2021
- [21] GS Research Symposium presentation, review, Apr. 2021
- [22] Georgia Southern Live Virtual High School Visit in Spring 2021, Mar. 27, 2021
- [23] Ogeechee Tech IT transfer Information Seminar, Mar. 11, 2021
- [24] Assisting course teaching to Dr. John O’Malley during Dr. O’Malley’s surgery recovery in spring 2021
- [25] Judge and Session Moderator, Track #5 Vehicle Design, ECE Industry Expo, Georgia Southern, Dec. 3, 2020
- [26] Innovative LLC community event, PAC center, GSU, Oct. 7, 2020 (GS)
- [27] Program Coordinator of Computational Science, 2010 – 2019 (USCB)
 - o Undergraduate:
 - Designed new course curriculum and developed (or co-developed) more than 30 new courses;
 - Authored (or co-authored) program application proposals to the South Carolina Commission on Higher Education (SC CHE, 2008-2009) and Southern Association of College and Schools (SACS, 2009-2010);
 - Established a new Computational Science Lab for research and education;

- Led the faculty search committees in 2010, 2011, 2015, and 2016, and successfully recruited four talented faculty members;
 - Built the faculty team and advised new faculty, two faculty members were promoted to Associate Professors with tenure in 2017.
 - Played a major role in planning and participating in the student recruitment process.
 - Provided consistent academic advisement to students and maintained a high retention rate (around 90%) in the program
 - The CSci program started with 7 students in fall 2010, and now it enrolls more than 100 students in fall 2017.
 - For the spring 2015 class, 100% of graduating students received job offers (3+ offers per student, with an average starting salary of \$57,000.00 plus full benefits) before the graduation ceremony.
 - Graduate:
 - Authored M.S. program application proposals to the University of South Carolina Beaufort, University of South Carolina Columbia, Board of Trustee, SC CHE, 2015-2018
- [28] Strategic Plan Implementation Subgroup (Academic Programs), 2018-2023
- [29] Chair of the Dean's Search Committee for the Dean of Science and Mathematics, 2017
- [30] Chair of Academic Excellence, USCB Strategic Planning committee, 2016-17
- [31] Faculty Search Committee for Tenure Track Computational Science, 2016-2017
- [32] Faculty Search Committee for Tenure Track Computational Science, 2015-2016
- [33] Faculty Search Committee for Instructor of Computational Science, 2015-2016
- [34] Chair of Promotion and Tenure, 2014-15
- [35] Chair of Pre-Tenure Review Committee, 2014-15
- [36] Committee of Faculty Search Committee for Clinical/Counselling Psychology, 2015
- [37] Chair of Faculty Search Committee for Computational Science, 2013-14
- [38] Faculty Development Committee, 2011-present
- [39] Grievance Committee, 2012-2014
- [40] Course and Curriculum development for the Program of Computational Science, 2006 – present
- [41] Ad hoc Internet committee for online courses at University of South Carolina Beaufort, 2008 – 2012
- [42] Chair of Faculty Search Committee for Computational Science, 2009-2010
- [43] Chair of Faculty Search Committee for Computational Science, 2009-2011
- [44] Adjunct Faculty, University of South Carolina, College of Engineering and Computing, 2007 – 2010
- [45] Faculty Search Committee for Physics/Astronomy, 2009-2010
- [46] Faculty Search Committee for Ecology, 2008-2009
- [47] Chair of Faculty Search Committee for Physics, 2007-2008
- [48] Professor in Residence, Center of Excellence in Collaborative Learning, University of South Carolina Beaufort, 2008-2009

▪ **Other Selected Services:**

- [1] First & Second Year Experience (FYE) Advisory Committee, Georgia Southern University, 2022-present
- [2] Junior Faculty Development Committee (2020 - present)
 - a. Monthly advisement meetings with four junior faculty members
 - b. Review and recommendations on faculty research and grant proposals
 - c. Supportive letters and others (for example, department support letter for CAREER grants)
- [3] Program Assessment, Author of Assessment reports
 - a. Annual program assessment report: BSIT (2020 - 2023), BIT (2021)
 - b. Core course assessment report: IT 2531 (2022, 2023)
 - c. Comprehensive program review (report), BSIT (2019), BIT (2022), MSIT (2023)
- [4] PhD Applied Computing program, SACSCOC proposal, June 2023.
- [5] MSIT Management program proposal with the Fort Stewart-Hunter Army Airfield Army Education Center (AEC), Department of the Army. June 2023 (Accepted in July 2023)
- [6] Governor's Honor Program (GHP) Audition Day Volunteer, Mar. 2023
- [7] Promote student success by leading a section of Conversations with Professors, 2022, 2023
- [8] Member of South Carolina Academy of Science (SCAS), 2016 – June 2019
- [9] Institutional director of the South Carolina Project for MADE in SC, NSF EPSCoR RII Track-1, 2017 – 2022, 2017 – present (http://scepacoridea.org/MADEinSC/about_Leadership.html)
- [10] Institutional director of the South Carolina Project for Organ Biofabrication, NSF EPSCoR RII Track-1, 2015 – 2016

["We are very much aware of the incredible amount of time and effort you have put into the current award (to say nothing of this year's application), and you are certainly deserving of the designation as USCB's Institutional Director. I thank YOU for your service to the EPSCoR program and for building South Carolina's educational and research infrastructure! – Dr. John Wheeler, Interim Director of SC EPSCoR/IDeA Office. Sept. 2015.]
- [11] Workforce and Education Board, the South Carolina Project for Organ Biofabrication project, NSF EPSCoR RII Track-1, 2010 – 2015
- [12] Advisory Board Member, Hardeeville Math, Science, Engineering Academy, Hardeeville Jr./Sr. High School, 2008 – 2011
- [13] Heritage Classic Foundation STEM project, 2012-2013
- [14] Hilton Head High School, University Dual Enrollment of Talented Students, 2012
- [15] Guest speaker for courses in the Business Administration program, 2010-2011
- [16] OLLI program (Osher Lifelong Learning Institute at USCB), 2011
- [17] Training services to science and mathematics teachers from regional school districts, including teachers from high schools in Hardeeville, Ridgeland, Hampton, and Colleton. 2008-2009.

TEACHING EXPERIENCE

- **Courses taught at Georgia Southern University (Aug. 2019 – present)**
 - 1) CWP Conversation with Professor (for first-year students)
 - 2) FYE 1220 First Year Experience (For first year-students, offering foundational information literacy skills and promoting student success)
 - 3) IT 4136 Knowledge Discovery and Data Mining
 - 4) IT 4530 Senior Capstone
 - 5) IT 4790 Internship in Information Technology
 - 6) IT 5090G Advanced Data mining
 - 7) IT 5090 Selected Topics in IT
 - 8) IT 7135 Seminar in IT
 - 9) IT 7891 Independent Study (various research topics)

- **Courses taught at USC Beaufort (Aug. 2006 – June 2019)**
 - 1) CSCI 101 Introduction to Computer Concepts
 - 2) CSCI 102 General Applications Programming
 - 3) CSCI 104 Computing in MATLAB
 - 4) CSCI 145 Algorithm Design
 - 5) CSCI 150 Intro. to Computational Science
 - 6) BMGS 290 Computer Information Systems in Business
 - 7) BMGT 390 Management Information Systems
 - 8-12) CSCI 399 Independent Study (various research/class sections with different topics)
 - 13) CSCI 416 Computer Networks
 - 14) CSCI 450 Modeling and Simulations
 - 15) CSCI 470 Software Testing and Verification
 - 16) ENCP 101 Introduction to Engineering I
 - 17) CSXE 211 Engineering Graphics
 - 18) CSXE 200 Statics
 - 19) CSXE 260 Solid Mechanics

- **Courses taught at Benedict College (Jan 2006-May 2006)**
 - 1) Compiler Theory
 - 2) Computer Graphics
 - 3) Computer Architecture
 - 4) Multimedia Computing
 - 5) Database Management Systems

- **Courses taught at Auburn University (2002-2005)**
 - 1) Personal Computer Applications
 - 2) Distributed Data Structure
 - 3) Advanced Database Systems

LATEST PROFESSIONAL DEVELOPMENT ACTIVITIES

- 1) Webinar: NSF Award Terms and Conditions, Sept. 12, 2024
- 2) NSF Research Infrastructure Workshop, Mar. 26-29, 2024 (Tucson, Arizona)
- 3) Webinar: Pathways to Enable Open-Source Ecosystems (POSE) overview, Mar. 28, 2024
- 4) Webinar: Updates to the NSF PAPPG (NSF 24-1), Mar. 12, 2024
- 5) NSF webinar, I-Corps teams, Mar. 7, 2024
- 6) Webinar: Scopus AI: Navigating essential practices in responsible Gen AI, Feb 27, 2024
- 7) Webinar: NSF Responsible Design, Development, and Deployment of Technologies, Feb 9, 2024
- 8) Leadership Development Institute, Jan 6, 2024, Apr. 12, 2024
- 9) Deans, Directors, and Department Chairs Spring 2024 Meeting, Friday, January 19, 2024
- 10) Work Transformation Summit, January 17th, 2024 [About AI and its future trends]
- 11) Cultivate This! Motivating Student Success in a New Era of Distraction, Faculty Professional Development- leadership session, Jan 5, 2024 (Statesboro)
- 12) NSF Grants Conference (virtual), Dec. 4-7, 2023
- 13) Leader Development Institute, Oct. 5, 2023
- 14) METRICS Workshop – Statesboro, Sept. 15, 2023
- 15) True Blue Brand Week, Sept. 12, 2023
- 16) Pyramid Training for GS Leaders, Aug. 28, 2023.
- 17) NSF Research Infrastructure workshop (video), Aug 24, 2023.
- 18) Academic Department Showcase, Aug. 14 (Armstrong) and Aug. 15 (Statesboro), 2023.
- 19) Conversations with Professor, Aug. 13, 2023.
- 20) Diversity and the Law Town Hall, AAAS SEA Change and Education Counsel, July 7, 2023.
- 21) Cybersecurity training, Internet security and You, Apr. 3, 2023.
- 22) USG Board of Regents, USG Data Science Course Development, Mar 17, 2023.
- 23) USG Ethics training, Mar. 17, 2023
- 24) Webinar, National Association for College and University Attorneys (NACUA), “Yes We Can: Approaches to Post-Tenure Faculty Review”, Mar. 16, 2023
- 25) Curriculum Micro-Retreat, Feb 23, 2023
- 26) ASCE training (Academic Security Counter Exploitation), Jan 30, 2023
- 27) USG training for Department Chairs and Deans, Jan 26-27, 2023
- 28) Leadership Development Institute (LDI), Dec. 2, 2022, Mar. 3, 2023
- 29) Training: Inclusive Hiring, June 10, 2022
- 30) Spring 2022 NSF Grants Conference, June 6 - 10, 2022. [Virtual]
- 31) Training - Securing the future with emerging technologies, Apr. 21, 2022

- 32) Certificate of Achievement, Phishing Foundations, Apr. 5, 2022
- 33) Crypto Crime Webinar Series, Feb 17, 2022, and Feb 24, 2022
- 34) USG Ethics Training, Jan 18, 2022
- 35) Search Committees: Skills for Academic Searches and Hiring, Oct. 08, 2021
- 36) Ad Astra Department Course Scheduler training, Oct. 6, 2021
- 37) eCampus/GA Southern Annual meeting, Sept. 21, 2021
- 38) Pyramid EM Dashboard Training, Aug. 25, 2021
- 39) Data Governance Training, June 03, 2021
- 40) Academic Performance Solution Training, June 24, 2021
- 41) South Big Data Hub meeting, July 14, 28-30, 2021
- 42) ABET Virtual workshop, May 20, 2021
- 43) Cybersecurity training, “FSCJ Business Speaker Series - Cybersecurity is Everyone's Business: Why It Matters to You”, Apr. 22, 2021
- 44) S-STEM-NET webinar, NSF, Mar. 29, 2021
- 45) NSF: Reimagining S-STEM Project Assessment & Knowledge Generation: 2020 Lessons Learned & Future Implications, Nov. 17, 2020
- 46) Webinar: GoToWebinar - What’s all that racket! Estuarine soundscapes in South Carolina, Nov. 17, 2020
- 47) Research funding workshop, Georgia Southern, Nov. 6, 2020
- 48) NSF: S-STEM Best Practices for Managing the Impacts of COVID-19: Supporting Student Learning and Motivation, September 29th, 2020 4:00 - 5:30 PM ET, NSF/AAAS Webinar on Managing COVID-19 Impacts, Sept. 29, 2020
- 49) Convergence College Network (CCN) quarterly meeting, Aug. 7, 2020
- 50) Training: Discovery meeting for Netlab, Aug 6, 2020
- 51) Training: Summer working connections, Virtual (from Frisco, Texas), July 13-17, 2020
- 52) Administrative workshops, June 11 & June 25, 2020
- 53) Training: Web content editor, Mar. 12, 2020
- 54) CERTS Cyber Education, Research and Training Symposium, Augusta, GA, Jan 14-16, 2020
- 55) CITI Program Training on Financial Conflict of Interest for Funded Activities, Oct. 2019
- 56) S-STEM Symposium. American Association for the Advancement of Science (AAAS), Washington, DC, Sept. 2019
- 57) Manager Self Service Training, Sept. 2019

- 58) Site-Synchronous Technology Training for faculty, Aug. 2019
- 59) CS/IT Faculty Training-AWS Educate, Aug. 2019
- 60) CITI Program Training on Responsible Conduct of Research (RCR), Aug. 2019
- 61) ePro Training, July 2019
- 62) Seminar for Department Chairs, Council of Colleges of Arts & Sciences (CCAS), Feb 2018

GRADUATE STUDENTS AT GEORGIA SOUTHERN UNIVERSITY

- [1] Spring 2024, MSIT Thesis, “MOVEIT Transfer Attack: Protecting Organizations from Similar Attacks Using Robotic Process,” Helen Adesola, Committee: Lei Chen, Yiming Ji, Jongyeop Kim
- [2] Fall 2023, MSIT Thesis “Blockchain Securities Issues: Decentralized Identity System with Key Management Perspective,” Olalekan Ola Adaramola, Committee: Lei Chen, Yiming Ji, Jongyeop Kim
- [3] Fall 2023, MSIT Thesis “A Novel Approach to Detecting and Mitigating Keyloggers,” Damilola Elelegwu, Committee: Lei Chen, Yiming Ji, Jongyeop Kim
- [4] Summer 2023, MSIT Thesis “Campus Safety Data Gathering, Classification, And Ranking Based on Clery-Act Reports,” Walaa Abo Elenin, committee: Lei Chen, Yiming Ji, Jongyeop Kim
- [5] Spring 2023, MSIT Thesis “Network Intrusion Detection with Machine Learning as a Service (MLaaS),” Lorna Kangethe, committee: Hayden Wimmer, Yiming Ji, Lei Chen
- [6] Spring 2023, MSIT Thesis “Modification of OWASP ZAP using the Boyer Moore Algorithm for Vulnerability Scanning,” Christoper Kalaani, committee: Lei Chen, Yiming Ji, and Jongyeop Kim
- [7] Fall 2022, MSIT Project “Blockchain Workflow Project Execution for Trustless Operations,” Samuel Ashaolu, committee: Lei Chen (Chair), Yiming Ji, and Jongyeop Kim
- [8] Fall 2022, MSIT Project “Web Application Firewall Tactics, Issues, and Future Directions,” Viraj Patel, committee: Lei Chen (Chair), Yiming Ji, and Christopher Kadlec
- [9] Spring 2022, MSIT Thesis “Towards Effective and Efficient Intrusion Detection with Deep Learning,” Seongsoo Kim, committee: Lei Chen (Chair), Yiming Ji, and Rami Haddad
- [10] Spring 2022, MSIT Project “Botnet Intrusion Detection: A Modern Architecture to Defend a Virtual Private Cloud,” Robert Brinson, committee: Hayden Wimmer (Chair), Lei Chen, and Yiming Ji
- [11] Fall 2021, MSIT Project “Big Cybersecurity Data with Hadoop and Mahout,” Omotola Adekanmbi, committee: Hayden Wimmer (Chair), Lei Chen, and Yiming Ji
- [12] Spring 2021, MSIT Project “Image Classification with Transfer Learning and Fast AI,” Ujwal Gullapalli, committee: Lei Chen (Chair), Yiming Ji, and Hayden Wimmer

- [13] Spring 2020, MSIT Project “Cyber Security Network Defense: Analyzing the Use of Botnets in Cyberattacks,” Kikiope Oyewole, committee: Hayden Wimmer (Chair), Yiming Ji, and Lei Chen