Dale R. Thompson

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RESEARCH AND TEACHING INTERESTS

Primary areas of interest include computer networks, cybersecurity, network security, and operating systems.

PROFESSIONAL POSITIONS

University of Arkansas, Fayetteville, Arkansas August 2023 – present
Dept. of Electrical Engineering and Computer Science
https://eecs.uark.edu
Associate Department Head for Academics
- Oversee management of undergraduate academic programs for over 800 students pursuing a B.S. in Computer Engineering, B.S. in Computer Science, or B.S. in Electrical Engineering.
- Serve as the ABET Coordinator for B.S. in Computer Engineering, B.S. in Computer Science, and B.S. in Electrical Engineering
- Approve students for graduation in undergraduate programs
- Support Department Head

University of Arkansas, Fayetteville, Arkansas August 2023 – present
Dept. of Electrical Engineering and Computer Science
Professor, August 15, 2023 – present
- Teach courses including Computer Networks, Information Security, Network Security, Wireless Systems Security, Operating Systems, Network Performance Evaluation, and Computer Systems Modeling (simulation).
- Direct research projects on topic areas that include computer networks and cybersecurity.
- Service to Department, University, State, National, and International organizations

University of Arkansas, Fayetteville, Arkansas May 2018 – July 2023
Dept. of Computer Science & Computer Engineering
Associate Department Head for the Undergraduate Program
- Oversee management of undergraduate academic programs for approximately 600 students pursuing a B.S. in Computer Engineering or B.S. in Computer Science.
- Serve as the ABET Coordinator for both programs.
- Approve students for graduation in undergraduate programs
- Support Department Head

University of Arkansas, Fayetteville, Arkansas July 2020 – December 2020
Dept. of Computer Science & Computer Engineering
Interim Department Head
- Led the CSCE department of approximately 700 students and 20 faculty during the COVID-19 pandemic when courses were being taught in three modes of delivery: face-to-face, remote synchronous, or hybrid. This required being flexible and agile to accommodate decreased room capacities, requiring that all classes be streamed to students and recorded, while managing a changing environment.
- Worked with staff, college, and university to transition to a new financial system that required many adjustments of business processes.
- Coordinated the virtual ABET evaluation visit that happens every six years for the B.S. in Computer Engineering and B.S. in Computer Science programs.

University of Arkansas, Fayetteville, Arkansas August 14, 2000 – July 2023

Dept. of Computer Science & Computer Engineering

Professor, August 15, 2022 – July 2023

Associate Professor, August 14, 2006 – August 14, 2022

Assistant Professor, August 14, 2000 – August 13, 2006

- Teach courses including Computer Networks, Information Security, Network Security, Wireless Systems Security, Operating Systems, RFID Information Systems Security (INFOSEC), Network Performance Evaluation, and Computer Systems Modeling (simulation).
- Direct research projects on topic areas that include computer and networked systems, cybersecurity, and food defense.
- Service to Department, University, State, National, and International organizations

North Carolina State University, Raleigh, North Carolina 1996 – 2000

Dept. of Electrical and Computer Engineering

Graduate Student (Coursework on-campus: August 1996 – August 1997, Doctoral research remotely: August 1997 – August 2000)

- Developed sample-sort simulated annealing, a parallel simulated annealing algorithm that has provable convergence.
- Solved the concentrator location problem in telecommunications with a genetic algorithm.
- Compared the genetic algorithm with simulated annealing for an actual concentrator location problem. Provided a traffic analysis methodology for gathering traffic flow parameters.
- Ph.D. in Electrical Engineering, August 2000, Dissertation: "Genetic algorithm with population sizing for the concentrator location problem", Advisor: Griff L. Bilbro

US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS 1992 – 2000

(Now named the US Army Engineer Research and Development Center (ERDC))

Information Technology Laboratory

Electronics Engineer

- Worked in the Information Technology Laboratory (ITL) that hosted two computer centers. One was a government high performance computing center (HPC). This supercomputer site was ranked number 45 in the June 2003 list of the top 500 supercomputer sites in the world. Representative computers in this center included a Cray Y-MP, Cray C90, Cray T3, and a 512-node IBM SP. The second computer center was a business computing center that did business processing for government sites east of the Mississippi River and Texas. The estimate value of the computer equipment in the two computer sites was \$250 million in Year 2000.
- Planned, designed, operated, and maintained the telecommunications and computer networks on the 700-acre campus that connected 58 major buildings and had approximately 1,500 employees.
- Program manager for replacing the telephone system 1998-1999. The one-year project total cost was \$1.2 million. Coordinated with the local telephone company and long distance carriers to switch over 2,500 extensions to the new Lucent PBX.
- Remote video teleconferencing through a satellite in 1999
- Designed and installed an internal high-speed computer network 1994-1996. The initial network was an ATM packet switching network that operated at 155 Mbps. It was later upgraded to 622 Mbps. The project total cost was \$500,000.
- Program manager for installing 8 miles of single-mode fiber connecting 14 different buildings in 1995. The project total cost was \$225,000.
- Upgraded the fiber distributed data interface (FDDI) backbone, which served 70 internal buildings 1993-1994. The project total cost was \$275,000.
- Network monitoring and intrusion detection.

EDUCATION

Ph.D., Electrical Engineering
North Carolina State University, Raleigh, NC   August 2000
Advisor: Griff L. Bilbro
Dissertation: Genetic algorithm with population sizing for the concentrator location problem

Master of Science, Electrical Engineering
Mississippi State University, Starkville, MS   May 1992
Advisor: Robert Moorhead
Dissertation: Advanced solid rocket motor (ASRM) communications network analysis

Bachelor of Science, Electrical Engineering
Mississippi State University, Starkville, MS   December 1990
Magna Cum Laude
Minor in Math

LICENSURES AND CERTIFICATIONS

- Registered Professional Engineer, Arkansas, License # 11264

PROFESSIONAL MEMBERSHIPS

- IEEE Senior Member
- IEEE Communications Society
- Tau Beta Pi
- Eta Kappa Nu

AWARDS AND HONORS

- Dept. of Electrical Engineering and Computer Science Outstanding Service to Students award, University of Arkansas, 2024-2025
- Elected as a Fellow of the Teaching Academy at the University of Arkansas, Nov. 20, 2023
- Dept. of Computer Science and Computer Engineering Outstanding Service to Students award, University of Arkansas, 2013-2014, 2021-2022
- Dept. of Computer Science and Computer Engineering Teacher of the Year award for academic year 2018-2019, University of Arkansas, May 3, 2019.
- Excellence in External Research Awards, College of Engineering, University of Arkansas, 2017.
- Imhoff Outstanding Teaching Award, College of Engineering, University of Arkansas, 2016.
- Dept. of Computer Science and Computer Engineering Teacher of the Year award for academic year 2012-2013, University of Arkansas, May 3, 2013.
- Dept. of Computer Science and Computer Engineering Teacher of the Year award for academic year 2010-2011, University of Arkansas, May 6, 2011.
- Schubert Leadership Award, May 6, 2011.
- Imhoff Outstanding Teaching Award, College of Engineering, University of Arkansas, 2009.
- Dept. of Computer Science and Computer Engineering Teacher of the Year award for academic year 2007-2008, University of Arkansas, May 2, 2008.
- Schubert Leadership Award, May 2, 2008.
- Dept. of Computer Science and Computer Engineering Teacher of the Year award for academic year 2004-2005, University of Arkansas, May 6, 2005.
- IEEE Senior Member, 2003
- Commander's Award for Civilian Service (Dept. of Army, ERDC), 1999
- Ollie Hughes Fellowship (Mississippi State University), 1991-1992

- Valedictorian in class of 185, Wynne, Arkansas, 1986
- Eagle Scout

MEDIA APPEARANCES AND INTERVIEWS

- Interviewed by KUAF radio reporter, Jack Travis, regarding Cybercrime in Arkansas, how to protect yourself, Jan. 31, 2024.
- Interviewed by KNWA FOX24 reporter, Mike Allen, regarding rural broadband and how the state wants to subsidize it. It aired Mar. 24, 2022.
- Interviewed by ArkansasBusiness.com, Mark Friedman, regarding cybercrime. I was quoted in article Ransomware, Risks, Cybercrimes and Shame Mar. 7, 2022.
- Interviewed by KFSM 5news reporter, Kathyrn Gilker, as a cybersecurity expert regarding the security of smart devices in the home. It aired Feb. 16, 2022, at 10pm.
- Interviewed by KNWA reporter for online article, as a cybersecurity expert regarding the Capital One data breach. "A closer look: Capital One data breach was in simple in execution, U of A professor says," by Hicham Raache, Posted: Aug. 1, 2019. Available: https://www.nwahomepage.com/news/a-closer-look/a-closer-look-capital-one-data-breach-was-simple-in-execution-u-of-a-professor-says/
- Interviewed by local television station, 40/29 News, as a cybersecurity expert regarding the Capital One data breach, July 30, 2019. It aired July 30 at 10pm.
- Interviewed by Steve Taylor from KZNG radio in Hot Springs, Arkansas, regarding the $4.63 million award from the National Science Foundation for the "Cyber-Centric Multidisciplinary Security Workforce Development" project on July 19, 2019. It was about a 12-minute conversation.
- Interviewed by Jamie Weis from local television station, 40/29 News, as a cybersecurity expert regarding the privacy concerns with the popular FaceApp application. "Popular FaceApp application causes privacy concern to users" by Jamie Weis, July 17, 2019. It aired July 17 at 6pm and 10pm, and the morning of July 18.
- Interviewed by Chellsie Brown from local television station, KNWA/FOX 24, concerning how smart devices in your home could compromise your privacy. "Alexa? Are you Recording Me? Could Smart Devices Compromise your Privacy?" By Chellsie Brown, 2/20/17.
- Interviewed by Bryan Shawver from local television station, 5 News KFSM, regarding smartphone security and the ability to track people, 2/10/16
- Interviewed by Northwest Arkansas Business Journal regarding new Training Arkansas Computing Teachers (TACT) program, Oct. 22, 2015.
- Interviewed for University of Arkansas Newswire regarding new Training Arkansas Computing Teachers (TACT) program, Sep. 9, 2015.
- Interviewed by Northwest Arkansas Times about Andrew Auernheimer, a Fayetteville man who was convicted in 2012 of violating the Computer Fraud and Abuse Act after hacking AT&T's site and making about 114,000 email addresses public, article appeared June 23, 2013.
- Interviewed by L.A. Times about RFID smartcards, article appeared June 23, 2013.
- RFID fingerprints to fight tag cloning, 2009. Slashdot story about my research. Accessed: 2009. URL: https://yro.slashdot.org/story/09/11/21/0354209/rfid-fingerprints-to-fight-tag-cloning

PUBLICATIONS

Journals

- Margaret Costello, Peter Rubinelli, Jessica Brown, Elena Olson, Dana Dittoe, Si Hong Park, Douglas Korver, Zachary Lawless, Dale Thompson, and Steven Ricke. Comparison of yeast-derived commercial feed additives on salmonella enteritidis survival and microbiota populations in rooster cecal in vitro incubations. *PLOS ONE*, 18(12):1–21, 12 2023. doi:10.1371/journal.pone.0295657
- Dana K. Dittoe, Elena G. Olson, Lindsey A. Wythe, Zachary G. Lawless, Dale R. Thompson, Lindsey M. Perry, and Steven C. Ricke. Mitigating the attachment of salmonella infantis on isolated poultry skin with cetylpyridinium chloride. *PLOS ONE*, 18(12):1–21, 12 2023. doi:10.1371/journal.pone.0293549

- Steven C. Ricke, Dana K. Dittoe, Jessica A. Brown, and Dale R. Thompson. Practical opportunities for microbiome analyses and bioinformatics in poultry processing. *Poultry Science*, 101(5):101787, 2022. URL: https://www.sciencedirect.com/science/article/pii/S0032579122000955, doi:https://doi.org/10.1016/j.psj.2022.101787
- Baha' A. Alsaify, Dale R. Thompson, Abdallah Alma'aitah, and Jia Di. Using dummy data for rfid tag and reader authentication. *Digital Communications and Networks*, 8(5):804–813, 2022. URL: https://www.sciencedirect.com/science/article/pii/S2352864821000687, doi:https://doi.org/10.1016/j.dcan.2021.09.008
- Kristina M. Feye, Himasri Lekkala, Jung A. Lee-Bartlett, Dale R. Thompson, and Steven C. Ricke. Survey analysis of computer science, food science, and cybersecurity skills and coursework of undergraduate and graduate students interested in food safety. *Journal of Food Science Education*, 19(4):240–249, October 2020. doi:10.1111/1541-4329.12200
- Kristina M. Feye, Andrew C. Micchichi, Peter M. Rubinelli, Carl J. Knueven, Dale R. Thompson, Michael H. Kogut, and Steven C. Ricke. The effect of acid sanitizers on the microbiome of re-use water. *Frontiers in Sustainable Food Systems*, 4:85, July 2020. doi:https://doi.org/10.3389/fsufs.2020.00085
- Kristina M. Feye, Dale R. Thompson, Michael J. Rothrock, Michael H. Kogut, and Steven C. Ricke. Poultry processing and the application of microbiome mapping. *Poultry Science*, 99(2):678 – 688, February 2020. doi:https://doi.org/10.1016/j.psj.2019.12.019
- Silas Lankford, Dale R. Thompson, and Steven C. Ricke. Simulating foodborne pathogens in poultry production and processing to defend against intentional contamination. *Journal of the Arkansas Academy of Science*, 71, 2017
- Matthew Rothmeyer, Dale R. Thompson, and Matthew Moccaro. The SMS Chaum mix. *The Journal of Computer and Communications*, 2(4):66–76, Mar. 2014. doi:10.4236/jcc.2014.24010
- Dale R. Thompson, Jia Di, and Michael K. Daugherty. Teaching RFID information systems security. *IEEE Trans. Education*, 57(1):42–47, Feb. 2014. doi:10.1109/TE.2013.2264289
- Washington Cilio, Michael Linder, Chris Porter, Jia Di, Dale R. Thompson, and Scott C. Smith. Mitigating power- and timing-based side-channel attacks using dual-spacer dual-rail delay-insensitive asynchronous logic. *Microelectronics Journal*, 44(3):258–269, Mar. 2013. URL: http://www.sciencedirect.com/science/article/pii/S0026269212002418
- Senthilkumar Chinnappa Gounder Periaswamy, Dale R. Thompson, and Jia Di. Fingerprinting RFID tags. *IEEE Trans. Dependable and Secure Computing*, 8(6):938–943, Nov./Dec. 2011. doi:10.1109/TDSC.2010.56
- Dale R. Thompson and Griff L. Bilbro. Sample-sort simulated annealing. *IEEE Trans. Systems, Man, and Cybernetics - Part B: Cybernetics*, 35(3):625–632, Jun. 2005. doi:10.1109/TSMCB.2005.843972
- Dale R. Thompson and Khalid Al-Snaie. Joint capacity and spare capacity placement with p-cycles. *IPSI BgD Transactions on Internet Research*, 1(2):34–37, July 2005
- Dale R. Thompson and Griff L. Bilbro. Comparison of a genetic algorithm with a simulated annealing algorithm for the design of an ATM network. *IEEE Communications Letters*, 4(8):267–269, Aug. 2000. doi:10.1109/4234.864190

Magazine

- Craig Thompson and Dale R. Thompson. Identity management. *IEEE Internet Computing Magazine*, 11(3):82–85, May/June 2007

Book Chapters

- Dale R. Thompson, Chase E. Rainwater, Jia Di, and Steven C. Ricke. Chapter 20 - student cross-training opportunities for combining food, transportation, and critical infrastructure cybersecurity into an academic food systems education program. In Steven C. Ricke, Griffiths G. Atungulu, Chase E.

Rainwater, and Si Hong Park, editors, *Food and Feed Safety Systems and Analysis*, pages 375 – 391. Academic Press, 2018. doi:https://doi.org/10.1016/B978-0-12-811835-1.00020-8

- Jia Di and Dale R. Thompson. Security for RFID tags. In Mohammed Tehranipoor and Cliff Wang, editors, *Introduction to Hardware Security and Trust*, pages 283–304. Springer, New York, 2012. doi:https://doi.org/10.1007/978-1-4419-8080-9_12

- Dale R. Thompson and Amy W. Apon. Public network technologies and security. In H. Bidgoli, editor, *The Handbook of Information Security*, volume 1, pages 473–488. John Wiley & Sons, Hoboken, NJ, 2006

- Dale R. Thompson and Amy W. Apon. Public networks. In H. Bidgoli, editor, *The Internet Encyclopedia*, volume 3, pages 166–176. John Wiley & Sons, Hoboken, NJ, 2004

Conference Proceedings

- Byron Denham and Dale R. Thompson. Analysis of decoy strategies for detecting ransomware. In *2023 IEEE Conference on Communications and Network Security (CNS)*, pages 1–6, 2023. doi:10.1109/CNS59707.2023.10288691

- Byron E. Denham and Dale R. Thompson. Ransomware and malware sandboxing. In *2022 IEEE 13th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)*, pages 0173–0179, Virtual Conference. Best paper in Security and Privacy, Oct. 26–29, 2022. doi:10.1109/UEMCON54665.2022.9965664

- Yasir F. Mohammed and Dale R. Thompson. Visualization of DNS tunneling attacks using parallel coordinates technique. In Guojun Wang, Jun Feng, Md Zakirul Alam Bhuiyan, and Rongxing Lu, editors, *Proc. International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS, Atlanta, GA, USA, July 11, 2019)*, volume 1161 of *Lecture Notes in Computer Science*, pages 89–101, Cham, Switzerland, 2019. Springer. doi:https://doi.org/10.1007/978-3-030-24907-6_8

- Adrian Ordorica and Dale R. Thompson. Operating system fingerprinting using IPv6 packets and machine learning techniques. In *Proceedings of the National Cyber Summit*, pages 29–33, Huntsville, AL, USA, Jun. 6–8, 2017. URL: https://cdm16608.contentdm.oclc.org/digital/collection/p16608coll30/id/19/

- Baha A. Alsaify, Dale R. Thompson, and Jia Di. Exploiting hidden Markov models in identifying passive UHF RFID tags. In *Proceedings of the IEEE Radio and Wireless Symposium (RWS)*, pages 259–261, Newport Beach, California, USA, Jan. 19–22, 2014. doi:https://doi.org/10.1109/RWS.2014.6830119

- Debrup Banerjee, Jiang Li, Jia Di, and Dale R. Thompson. Feature selection for RFID tag identification. In *Proceedings of the International Conference on Communications and Networking (Chinacom)*, Kunming, China, Aug. 8-10, 2012. Best paper. doi:https://doi.org/10.1109/ChinaCom.2012.6417479

- Baha A. Alsaify, Dale R. Thompson, and Jia Di. Identifying passive UHF RFID tags using signal features at different tari durations. In *Proceedings of the IEEE International Conference on RFID (IEEE RFID)*, pages 40 – 46, Orlando, Florida, USA, April 3–5, 2012. doi:https://doi.org/10.1109/RFID.2012.6193054

- Washington Cilio, Michael Linder, Chris Porter, Jia Di, Scott C. Smith, and Dale R. Thompson. Side-channel attack mitigation using dual-spacer dual-rail delay-insensitive logic (D3L). In *Proceedings of the IEEE SoutheastCon*, pages 471–474, Concord, NC, USA, Mar. 18–21, 2010

- Senthilkumar Chinnappa Gounder Periaswamy, Dale R. Thompson, Henry P. Romero, and Jia Di. Fingerprinting radio frequency identification tags using timing characteristics. In *Proceedings of the Workshop on RFID Security (RFIDsec'10)*, pages 73–82, Singapore, Feb. 22–23, 2010

- Baha Alsaify and Dale R. Thompson. Pendulum: an energy efficient protocol for wireless sensor networks. In *Proceedings of IEEE Sensors Applications Symposium (SAS)*, pages 273–277, Limerick, Ireland, Feb. 23–25, 2010

- Dale R. Thompson. Teaching RFID information systems security to non-RF students. In *Proceedings of IEEE Wireless and Microwave Technology Conference (WAMICON)*, pages 1–2, Clearwater, FL, USA, Apr. 20–21, 2009

- Nurbek Saparkhojayev and Dale R. Thompson. Matching electronic fingerprints of RFID tags using the hotelling's algorithm. In *Proceedings of IEEE Sensors Applications Symposium (SAS)*, pages 19–24, New Orleans, LA, USA, Feb. 17–19, 2009

- Senthilkumar Chinnappa Gounder Periaswamy, Dale R. Thompson, and Jia Di. Ownership transfer RFID tags based on electronic fingerprint. In *Proceedings of the International Conference on Security and Management (SAM)*, pages 64–67, Las Vegas, Nevada, USA, July 14–17, 2008

- Senthilkumar Chinnappa Gounder Periaswamy, Suman Bharath, Manideep Chagarlamudi, Scott Estes, and Dale R. Thompson. Attack graphs for EPCglobal RFID. In *Proceedings of the IEEE Region 5 Technical Conference*, pages 391–396, Fayetteville, Arkansas, USA, Apr. 20–21, 2007

- Micah Byers, Anthony Lofton, Anil Kumar Vangari-Balraj, and Dale R. Thompson. Brute force attack of EPCglobal UHF class-1 generation-2 RFID tag. In *Proceedings of the IEEE Region 5 Technical Conference*, pages 386–390, Fayetteville, Arkansas, USA, Apr. 20–21, 2007

- Jaanus Uudmae, Harshitha Sunkara, Dale R. Thompson, Sean Bruce, and Jayamadhuri Penumarthi. Mixnet for radio frequency identification. In *Proceedings of the IEEE Region 5 Technical Conference*, pages 382–385, Fayetteville, Arkansas, USA, Apr. 20–21, 2007

- Jonathon White and Dale R. Thompson. Using synthetic decoys to digitally watermark personally identifying data and to promote data security. In *Proceedings of the International Conference on Security & Management (SAM)*, pages 91–99, Las Vegas, Nevada, USA, Jun. 26–29, 2006

- Dale R. Thompson, Jia Di, Harshitha Sunkara, and Craig Thompson. Categorizing RFID privacy threats with STRIDE. In *Proceedings of the ACM Symposium on Usable Privacy and Security (SOUPS)*, Carnegie Mellon University, Pittsburgh, PA, USA, July 12–14, 2006

- Khalid Al-Snaie and Dale R. Thompson. Cut saturation for p-cycle design. In *Proceedings of the IEEE Region 5 Technical, Professional, and Student Conference (TPSC)*, pages 236–242, San Antonio, Texas, USA, Apr. 7–9, 2006

- Dale R. Thompson. RFID technical tutorial. *The Journal of Computing Sciences in Colleges*, 21(5):8–9, May 2006. presented at the Mid-South Consortium for Computing Sciences in Colleges

- Dale R. Thompson, Neeraj Chaudhry, and Craig W. Thompson. RFID security threat model. In *Proceedings of the Acxiom Laboratory for Applied Research (ALAR) Conference on Applied Research in Information Technology*, Conway, Arkansas, USA, Mar. 3, 2006

- Ram Kumar Ravalkol and Dale R. Thompson. Service restorability in degree-based wavelength division multiplexing networks. In *Proceedings of the IASTED International Conference on Optical Communications Systems and Networks (OCSN)*, pages 50–55, Banff, Canada, July 19–21, 2005

- Jonathon White and Dale R. Thompson. Load balancing on a grid using data characteristics. In *Proceedings of the International Conference on Grid Computing and Applications (GCA)*, pages 184–188, Las Vegas, Nevada, USA, Jun. 20–23, 2005

- Asheq Khan and Dale R. Thompson. Solving the WDM network operation problem using dynamic synchronous parallel simulated annealing. In *Proceedings of the IEEE Southeastcon*, pages 296–301, Ft. Lauderdale, FL, USA, Apr. 8–10, 2005

- Dale R. Thompson, Brad Maxwell, and James Pat Parkerson. Building the big message authentication code. In *Proceedings of the 8th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2004)*, pages 544–549, Orlando, FL, USA, July 18–21, 2004

- Dale R. Thompson and Seongjin Shin. Mean value analysis of a database grid application. In *Proceedings of the 3rd International Conference on Networking*, pages 775–780, Guadeloupe, French Caribbean, Mar. 1–4, 2004

- Brad Maxwell, Dale R. Thompson, Greg Amerson, and Lance Johnson. Analysis of crc methods and potential data integrity exploits. In *Proceedings of the International Conference on Emerging Technologies*, Minneapolis, MN, Aug. 25–26, 2003

- Dale R. Thompson and Md. Tanveer Anwar. Parallel recombinative simulated annealing for wavelength division multiplexing. In *Proceedings of the 2003 International Conference on Communications in Computing (CIC)*, pages 212–217, Las Vegas, NV, USA, June 23–26, 2003

- Em Ward, Douglas S. Blank, Douglas Rolniak, and Dale R. Thompson. Complexity as fitness for evolved cellular automata update rules. In *Proceedings of the 2001 Genetic and Evolutionary Computation Conference Late-Breaking Papers*, pages 463–468, San Francisco, CA, USA, July 9-11, 2001

- Dale R. Thompson and Griff L. Bilbro. Comparison of two swap heuristics with a genetic algorithm for the design of an ATM network. In *Proceedings of the Seventh International Conference on Computer Communications and Networks*, pages 833–837. Piscataway, NJ: IEEE Press, Oct. 1998
- Dale R. Thompson, Robert J. Moorhead, and Wayne D. Smith. Advanced solid rocket motor (ASRM) communications network analysis using BONeS. In *Proceedings of the IEEE Southeastcon*, pages 276–282, Birmingham, AL, USA, April 12-15, 1992. Piscataway, NJ: IEEE Press
- Dale R. Thompson, Robert J. Moorhead, and Wayne D. Smith. Advanced solid rocket motor (ASRM) communications network analysis. In *Proceedings of the International Conference on Computer Communications and Networks (IC3N)*, pages 107–111, San Diego, CA, USA, June 8-10, 1992. Piscataway, NJ: IEEE Press

Posters

- Dale R. Thompson. Data analytics, cybersecurity, and the food industry. Poster at Arkansas Association of Food Protection (AAFP) Conference, Sep. 20, 2018. Fayetteville, AR, USA
- Kristina M. Feye, Laura R. Meyer, Himasri Lekkala, Dale R. Thompson, and Steven C. Ricke. Assessment of computer science and cybersecurity skills of undergraduate students interested in food safety. Poster at Poultry Science Association, Jul. 23–26, 2018. San Antonio, TX, USA
- Dale R. Thompson. An interdisciplinary effort to address modern security issues: Arkansas security research and education technology (ASCENT) institute. Poster at 2018 SEC Academic Conference, Apr. 8–10, 2018. Auburn, AL, USA
- Dale R. Thompson, Bryan Hill, David Shannon, Himasri Lekkala, and Wen-Juo Lo. Preliminary results of TACT integration and confidence levels on seven big ideas of CS. In *Poster at ACM Technical Symposium on Computing Science Education (SIGCSE)*, Baltimore, MD, USA, Feb. 21–24, 2018. doi: https://doi.org/10.1145/3159450.3162271
- Baha A. Alsaify and Dale R. Thompson. Fingerprinting RFID tags using timing measurements. Poster at IEEE RFID, Apr. 12-14, 2011
- Dale R. Thompson. Sample-sort simulated annealing for parallel optimization. Oklahoma Supercomputing Symposium, Oct. 4–5, 2005. Poster at Univ. of Oklahoma in Norman, OK
- Jonathon White and Dale R. Thompson. Using census data for grid partitioning. Oklahoma Supercomputing Symposium, Oct. 6–7, 2004. Poster at Univ. of Oklahoma in Norman, OK
- Dale R. Thompson, Amy Apon, Yuriko Yara, Jens Mache, and Russell Deaton. Training a grid workforce. Oklahoma Supercomputing Symposium, Sep. 25, 2003. Poster at Univ. of Oklahoma in Norman, OK

Other Publications

- RFID infosec. http://rfidsecurity.uark.edu, 2008. Accessed: 2008
- Neeraj Chaudhry, Dale R. Thompson, and Craig Thompson. RFID Technical Tutorial and Threat Modeling. Technical report, University of Arkansas, Department of Computer Science and Computer Engineering, 12 2005
- Dale R. Thompson. *Genetic Algorithm with Population Sizing for the Concentrator Location Problem*. PhD thesis, North Carolina State University, Raleigh, North Carolina, USA, 5 2000. Electrical Engineering
- Dale R. Thompson. Advanced solid rocket motor (ASRM) communications network analysis. Master's thesis, Mississippi State University, Starkville, MS, USA, 1992

Reports

- Annual Academic Assessment Reports for all academic programs in Dept. of Electrical Engineering and Computer Science submitted to the College of Engineering, June 2024, June 2025

- Dale R. Thompson, USDA NIFA Student Cross-Training Opportunities for Combining Food and Cybersecurity into an Academic Food Systems Education Program Final Report (3/15/2018 —3/14/2021), 6/18/2021
- Dale R. Thompson, NSF CS10K: Training Arkansas Computing Teachers (TACT) Final Report, 10/31/2019
- Dale R. Thompson, NSF CS10K: Training Arkansas Computing Teachers (TACT) Annual Report, 10/2/2018
- Dale R. Thompson, NSF CS10K: Training Arkansas Computing Teachers (TACT) Annual Report, 9/28/17
- Dale R. Thompson, NSF CS10K: Training Arkansas Computing Teachers (TACT) Annual Report, 9/3/16
- Dale R. Thompson and Jia Di, NSF EAGER: Fingerprinting RFID Tags with Transfer-of-Ownership Capabilities Final Report, 9/14/12
- Dale R. Thompson and Jia Di, NSF EAGER: Fingerprinting RFID Tags with Transfer-of-Ownership Capabilities Annual Report, 6/12/11
- Dale R. Thompson and Jia Di, NSF RFID Information Systems Security (INFOSEC) for Nation-wide Engineering Education Final Report, 2/9/10
- Dale R. Thompson and Jia Di, NSF CNS Highlights, 1/15/08, 1/15/09, 11/30/09
- Dale R. Thompson and Jia Di, NSF CT-ER: Anti-counterfeiting Tags Final Report, 6/30/09
- Dale R. Thompson and Jia Di, NSF CT-ER: Anti-counterfeiting Tags Annual Report, 4/1/08
- Dale R. Thompson and Ronny Thompson, Security scan of BNSF Logistics, LLC, final report as consultant, Aug. 24, 2005.
- Dale R. Thompson, Audit check list for BNSF Logistics, LLC, final report as consultant, Aug. 16, 2005.
- Dale R. Thompson, Craig W. Thompson, and Amy Apon, Grid node failover and partitioning final report, final report, ALAR contract RSSP Proposal no. 04-491, June 24, 2005.
- Dale R. Thompson, Acxiom cluster modeling final report, June 12, 2003.
- Ingels, R. J. Moorhead, J. N. Moorhead, C. M. Shearin, and Dale R. Thompson, Space lab system analysis: advanced solid rocket motor (ASRM) communications network analysis, final report, contract NAS8-36717, Dec. 1990.

PRESENTATIONS

- Dale R. Thompson, "NSF CyberCorps Scholarship for Service (SFS) Program at University of Arkansas", recruiting in Software Engineering class, 3/9/2021; Network Security class, 4/6/2022; Paradigms, Operating Systems, and Software Engineering classes, Sep. 2022; Computer Networks and Software Engineering classes, Mar. 2023; Operating Systems class, Oct. 2023; Computer Networks class, Apr. 2024; Operating Systems class, Oct. 2024
- Dale R. Thompson, "Dept. of Computer Science and Computer Engineering (CSCE) at the University of Arkansas Overview", First-Year Engineering Program (FEP) Departmental Information Session: 9/17/2021, 9/16/2022
- Dale R. Thompson, "Dept. of Computer Science and Computer Engineering (CSCE) at the University of Arkansas Overview", First-Year Engineering Program (FEP) Departmental Recruiting Sessions: Feb. 3 and 6, 2020, (∼146 students); Feb. 2-3, 2021, (∼140 students), Feb. 1, 2022
- Dale R. Thompson, "Computer Cyber Security Training and Food Science", Arkansas Bioinformatics Consortium, Little Rock, AR, USA, Feb. 26, 2019.
- Dale R. Thompson, "Dept. of Computer Science and Computer Engineering (CSCE) at the University of Arkansas Overview", multiple sessions of First-Year Engineering Program (FEP) Departmental Information Sessions: Nov. 2, 2018, Nov. 18, 2019, Fall 2020 (recorded because of COVID-19).
- Dale R. Thompson, "Cybersecurity: Why Should I Care?", graduate Food Science Seminar, Fayetteville, AR, USA, Oct. 22, 2018.
- Dale R. Thompson, "Security Education and Workforce Development", ASCENT Workshop, Fayetteville, AR, USA, Sep. 21, 2018.

- Dale R. Thompson, "Data Analytics, Cybersecurity, and the Food Industry", Arkansas Association of Food Protection (AAFP) Conference, Fayetteville, AR, 9/20/2018.
- Dale R. Thompson, "Cybersecurity: Why Should I Care?", TACT CS Boot Camp, high school teachers in the State of Arkansas, Fayetteville, AR, USA, July 26, 2018.
- Dale R. Thompson, "An interdisciplinary effort to address modern security issues: Arkansas security research and education technology (ASCENT) institute," poster in 2018 SEC Academic Conference, theme was Cyber Security: A Shared Responsibility, Auburn, AL, USA, Apr. 8-10, 2018.
- Brok Stafford and Dale R. Thompson, "Dynamically visualizing network traffic in 3D," poster in 2018 SEC Academic Conference, theme was Cyber Security: A Shared Responsibility, Auburn, AL, USA, Apr. 8-10, 2018.
- Dale R. Thompson, "Cybersecurity: Why Should I Care?", graduate Food Science Seminar, Fayetteville, AR, USA, Mar. 26, 2018.
- Dale R. Thompson, Bryan Hill, David Shannon, Himasri Lekkala, and Wen-Juo Lo, "Preliminary results of TACT integration and confidence levels on seven big ideas of CS," poster in Proc. ACM Technical Symposium on Computing Science Education (SIGCSE), Baltimore, MD, USA, Feb. 21-24, 2018.
- Dale R. Thompson, "Novel computer modeling of Salmonella dissemination in a processing plant", Arkansas Association of Food Protection (AAFP) Conference, Springdale, AR, 9/20/17.
- Dale R. Thompson, "Cybersecurity: Why Should I Care?", FDSC 1011 Exploring Topics in Food Science, undergraduate survey class, University of Arkansas, Fayetteville, AR, approximately 64 in attendance, 11/20/17.
- Dale R. Thompson, "Cybersecurity: Why Should I Care?", Food Science Graduate Seminar, University of Arkansas, Fayetteville, AR, approximately 17 in attendance, 11/13/17.
- Dale R. Thompson, "Training Arkansas Computing Teachers (TACT)", Arkansas Computer Science Education Leadership Summit, Russellville, AR, Oct. 12, 2017.
- Silas Lankford, Dale R. Thompson, and Steven Ricke, "Simulating Foodborne Pathogens in Poultry Production and Processing to Defend Against Intentional Contamination," oral presentation at Arkansas Academy of Science (AAoS) 101th Meeting, University of Central Arkansas, Conway, AR, April 7, 2017.
- Adrian Ordorica and Dale R. Thompson, "IPv6 security performance analysis," poster at Arkansas Academy of Science (AAoS) 100th Meeting, University of Arkansas, Fayetteville, AR, April 2, 2016.
- Matthew Moccaro, Dale R. Thompson, and Matthew Rothmeyer, "Mobile Banking Security Using GPS Location Authentication," poster at Fifth Central Area Networking and Security Workshop (CANSec), Fayetteville, AR, April 4-5, 2014.
- Dale R. Thompson, "RFID Technical Tutorial", 3.5 hour tutorial taught day before IEEE RFID 2012, Orlando, FL, April 2, 2012.
- Dale R. Thompson, "Teaching RFID Information Systems Security to Non-RF Students," in Proc. IEEE Wireless and Microwave Technology conference (WAMICON), Clearwater, FL, April 20-21, 2009, pp. 1-2.
- Presentation of research to new Vice Provost of Research and Economic Development, Dr. James Rankin, 9/8/10
- Presentation of research to Dr. Sara Rajala, Mississippi State University Dean of Engineering, 11/8/10
- Presented results of Anti-counterfeiting RFID Tags research to the UA ITRI RFID Board, 6/19/08, 10/27/09.
- Presented overview of Anti-counterfeiting RFID Tags and RFID Information Systems Security (INFOSEC) for Nation-wide Engineering Education research to the CSCE Advisory Committee, 4/11/08.
- Presented overview of RFID Information Systems Security (INFOSEC) for Nation-wide Engineering Education research to the UA ITRI RFID Board, 3/11/08, 10/27/09.
- Presented overview of Anti-counterfeiting RFID Tags research to the UA ITRI RFID Board, 12/7/07.
- Dale R. Thompson, "RFID Technologies," Identity Solutions Symposium and Workshop, Arkansas State University, Jonesboro, Arkansas, Feb. 21-22, 2007
- Craig W. Thompson, Dale R. Thompson, and Jia Di, "Architecting secure identity solutions," Identity Solutions Symposium and Workshop, Arkansas State University, Jonesboro, Arkansas, Feb. 21-22, 2007

- Presented overview of RFID Security and Privacy Threat Modeling research to the UA ITRI

CONTRACTS, FELLOWSHIPS, GRANTS, AND SPONSORED RESEARCH

Cyber-Centric Multidisciplinary Security Workforce Development Proposal
National Science Foundation CyberCorps Scholarship for Service (SFS) Program, Grant No. 1922180
$4,634,626
Aug. 1, 2019 - July 31, 2024
Jia Di (PI), Dale Thompson (co-PI), Brajendra Panda (co-PI), Chase Rainwater (co-PI), and Alan Mantooth (co-PI)
The goal of the project is to recruit, educate, and train the next generation of cybersecurity professionals. The program provides the knowledge and tools necessary to protect network and computer systems in three critical areas, cybersecurity, transportation security, and critical infrastructure security. The program provides job training and research opportunities for graduate and undergraduate students, and all students will be offered internships at government agencies, where additional training could lead to job placement.
https://ascent.uark.edu

GAANN: Securing Cognitive Edge Computing for Healthcare
U.S. Department of Education, Graduate Assistance in Areas of National Need (GAANN), Grant No. P200A180019
$767,400 ($597,000 from DoED and $170,400 cost share)
Oct. 1, 2018 - Sep. 30, 2021
Jia Di (PI), Dale Thompson (co-PI), Qinghua Li (co-PI), Alexander Nelson (co-PI), and Chase Rainwater (co-PI)
The goal of the project is to provide GAANN Fellows interdisciplinary experiences in protecting cognitive health care systems including hardware security, software security, network security, and data security. The effort involves the Computer Science (CS), Computer Engineering (CE), and Industrial Engineering (IE) disciplines. The program will provide GAANN Fellows with a supervised teaching and research experience, building professional skills and motivation to pursue exciting careers in the area of Cybersecurity.

Student Cross-Training Opportunities for Combining Food and Cybersecurity into an Academic Food Systems Education Program
USDA National Institute of Food and Agriculture (NIFA), Higher Ed Challenge, Challenge Grants Program, under Grant Number 2018-70003-27663
$149,890
Mar. 15, 2018 - Mar. 14, 2021
Project Director: Dale Thompson, Co-Project Directors: Steven C. Ricke, Jia Di, and Chase E. Rainwater
The goal of the Food and Cyber Education project, FACE, is to prepare graduate food science students to protect and defend food systems from cyberattacks. Arkansas' top three commodities in terms of value for 2016 were chicken bred for meat (broilers) at $3.1 billion, soybeans at $1.4 billion, and rice at $1 billion. Among the states in the U.S., Arkansas is number 1 in the production of rice and number 2 in the production of broilers. As the food industry continues to automate their systems to monitor and create more efficient production, there is a fear that attackers will gain access gathering information and attacking these systems.

CS10K: Training Arkansas Computing Teachers (TACT)
National Science Foundation, Grant No. 1543195
$991,664
Oct. 1, 2015 – Sep. 30, 2019
Dale R. Thompson (PI) and Bryan Hill (co-PI)
The goals of this research were to create computer science (CS) talent, provide access to CS instruction for high schools, and train Arkansas high school teachers to become certified to each computer science by the end of the 3-year grant. The TACT project trained a total of 64 in-service K-12 teachers and two pre-service teachers from 2016 until 2018. These 66 teachers represent 48 different schools from the Northwest, Central,

Southwest, and Northeast areas of the State of Arkansas. The course materials developed by the project are available at the project website, https://tact.uark.edu.

EAGER: Fingerprinting RFID Tags with Transfer-of-Ownership Capabilities
National Science Foundation, Grant No. CNS-1053286
$199,967
Sept. 1, 2010 – August 31, 2012
Dale R. Thompson (PI) and Jia Di (co-PI)
The goal of this research was to re-define the authentication of an RFID tag from being something the tag "knows" to being something the tag "is," like a fingerprint, and to develop new hardware primitives for transferring ownership of the tag by manipulating the fingerprint in a controlled way. The research may lead to secure and private contactless identification and transfer of ownership of objects.

RFID Information Systems Security (INFOSEC) for Nation-wide Engineering Education
National Science Foundation, Grant No. DUE-0736741
$149,703
Jan. 1, 2008 – Dec. 31, 2009
Dale R. Thompson (PI) and Jia Di (co-PI)
The goal of this research was to create modules for teaching RFID, which include security and privacy. The course materials developed by the project are available at the project website.

CT-ER: Anti-Counterfeiting RFID Tags
National Science Foundation, Grant No. CNS-0716578
$243,819
July 1, 2007 – June 30, 2009
Dale R. Thompson (PI) and Jia Di (co-PI)
The goal of this research was to prevent counterfeiting of RFID tags by offering mitigating techniques at different levels of protection in order to provide appropriately secure and flexible solutions for different applications.

Delta Center for Identity Solutions: Planning Grant Proposal
Arkansas Science and Technology Authority through Arkansas State University
$29,405
Sep. 25, 2006 – Aug. 31, 2007
Dale R. Thompson (PI)

Grid Node Failover and Partitioning
Acxiom
$195,578
May 16, 2004 – May 15, 2005
Dale R. Thompson (PI)

MRI: Acquisition of a Computing Cluster for High-end Applications in Science and Engineering (CHASE)
National Science Foundation
$304,763
Aug. 1, 2004 – Aug. 1, 2007
Dale R. Thompson (Senior Investigator)

Intelligent Free Space Optical Communications Node Phase I
Space Photonics subcontract from U.S. DoD Air Force SBIR Program
$69,156
Aug. 1, 2004 – July 31, 2005

Dale R. Thompson (co-PI)

Authentification of Electronic Data
University of Arkansas Innovation Incubator
$20,856
Jan. 1, 2003 – May 15, 2004
Dale R. Thompson (PI)

TEACHING EXPERIENCE

- CSCE 47503 Computer Networks: Spring 2025, Spring 2026
- CSCE 36103 Operating Systems: Fall 2024, Fall 2025
- Directed non-credit special topics project for Steven Lynch, "Tactics of artificial intelligence data leakage," Summer 2025
- CSCE 4753 Computer Networks: Spring 2009-2012, 2014-2015, 2023, 2024; Fall 2001-2007, 2012, 2015-2018, 2020, 2021; Summer 2010, M.S. in Engineering online: 2010-2017.
- CSCE 3613 Operating Systems: Fall 2015-2023, Spring 2006, 2009, 2013
- CSCE 4853 Information Security: Fall 2023
- CSCE 4423 Computer Systems Modeling (simulation of computer systems): Spring 2007, Fall 2012, Spring 2023
- CSCE 5773 Computer Networks: Spring 2019 M.S. in Engineering online
- CSCE 5653 Network Security: Spring 2004-2007, 2010, Fall 2013, Spring 2016, 2018, 2020, 2022
- CSCE 5013/5753 Wireless Systems Security: Spring 2013, 2015, 2017, 2019, 2021
- CSCE 4043 RFID INFOSEC: Fall 2008, 2009, 2010, 2011, 2014
- CSCE 5633 Network Performance Evaluation: Spring 2002, 2003, 2008, 2011, M.S. in Engineering online: Fall 2014
- CSCE 5643 Computer Communications Networks: Fall 2007, Spring 2011
- CENG/ELEG 5613 Introduction to Telecommunications: Fall 2000-2006
- CSCE 510V/490V SP: RFID Communications: Summer 2006
- Data Communications Systems: Spring 2001
- Electric Meter School: TCP/IP Protocols, Fall 2008-2015

ADVISING/DIRECTED STUDENT LEARNING

Ph.D. Students

- Byron Denham, Topic TBD, Ph.D. in Computer Science, Dept. of Electrical Engineering and Computer Science (EECS), University of Arkansas. Start date: Aug. 2022.
- Yasir Faraj Mohammed, "Network-based detection system against DNS-based attacks," Ph.D. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2021. Start date: Sep. 2018. Mosul University.
- Baha' Alsaify, "Recognizing Patterns in Transmitted Signals for Identification Purposes," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2012. Start date: Aug. 2009. Jordan University of Science and Technology, Jordan.
- Senthilkumar Chinnappa Gounder Periaswamy (Senthilkumar CP), "Authentication of Radio Frequency Identification Devices Using Electronic Characteristics," Ph.D. dissertation, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2010. Start date: Jan. 2008. Technical Director, RFID Research Center, University of Arkansas 2010-2014. RFID Lab Technical Director RFID Lab at Auburn University 2014-present.
- Khalid A. Al-Snaie, "P-cycles in wavelength division multiplexing networks for different topologies," Ph.D. dissertation, Dept. Electrical Engineering, University of Arkansas, May 2005. Start date: Aug. 2001. Al-Iman Mohammad Ibn Saud Islamic University, Saudi Arabia.

M.S. Students

1. Nihad J. Majid, "Detailed timing analysis using genetic algorithms," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2001. Start date: Aug. 2000.

2. Zhichun Xiao, "Routing and wavelength assignment using parallel recombinative simulated annealing," M.S. project in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2001. Start date: Jun. 2001.

3. Mohammad Tina, "Secure e-mail," M.S. project in Telecommunications Engineering, Dept. Electrical Engineering, University of Arkansas, May 2003. Start date: Aug. 2002.

4. Seongjin Shin, "Approximate mean value analysis of a database grid application," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2003. Start date: Aug. 2002.

5. Asheq Khan, "Solving the WDM network operation problem using parallel simulated annealing," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2003. Start date: Aug. 2002.

6. Justin T. Vaughn, "Visualization of optimized wavelength division multiplexed networks," M.S. project in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2003. Start date: Aug. 2002.

7. J. Brad Maxwell, "Transactional audit identification with non-repudiation protocol and a big message authentication code," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2004. Start date: Jan. 2003.

8. Ram Ravalkol, "Service restorability in degree-based wavelength division multiplexing networks," M.S. project in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2005. Start date: Jan. 2004.

9. Jonathan White, "American dataset generation program: creation, applications, and significance," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2005. Start date: May 2004.

10. Yein Yein Loh, "Partitioning mechanism for in-memory distributed database," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2005. Start date: Jan. 2004.

11. Neeraj Chaudhry, "RFID technical tutorial and threat modeling," M.S. project in Computer Engineering, Dept. of Computer Science and Computer Engineering, University of Arkansas, Fayetteville, Arkansas, Dec. 2005. Start date: Jan. 2005

12. Anthony Lofton, "Mimicking RFID readers using honeyd honeypots for intrusion detection," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May, 2006. Start date: Aug. 2005.

13. Harshitha Sunkara, "MIXNET Using Universal Re-Encryption for Radio Frequency Identification," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2006. Start date: Jan. 2006.

14. Jaanus Uudmae, "Analysis of the privacy policies of most visited web sites," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2007. Start date: May 2006.

15. Senthilkumar Chinnappa Gounder Periaswamy, "Fingerprinting RFID tags," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2007. Start date: Aug. 2005.

16. Nurbek Saparkhojayev, "Statistical classifier: case study of the Hotelling's two-sample T^2 algorithm in the presence of noise," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Start date: Aug. 2007.

17. Kelli Lee, "Machine learning classification analysis of music statistics," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2008. Start date: Jan. 2008.

18. Uday Sharma Chakkirala, "RFID tag placement on apparel using RSSI and read count," M.S. project in Computer Science, Dept. of Computer Science and Computer Engineering, University of Arkansas, Fayetteville, Arkansas, Dec. 2010. Start date: Aug. 2009

19. Aigul Khabdulina, "Deterring free-riding behavior in BitTorrent peer-to-peer networks," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2010. Start date: Jun. 2009.

20. Yeimer Bolanos Lara, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, May 2013. Start date: Aug. 2011.

21. Deepak Rana, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, Dec. 2013. Start date: Jan. 2010.

22. Matthew Rothmeyer, "An innovative approach towards applying Chaum mixing to SMS," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2014. Start date: Aug. 2012. Software Developer/Consultant at CapSpire 2014-present.

23. Matthew Moccaro, "Mobile banking security using GPS and LDPC codes," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2014. Start date: Aug. 2012. Network Engineer at Verizon.

24. Aaron McKay, "RFID localization techniques for real world applications," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2014. Start date: Aug. 2012. Associate Software Engineer at CA Technologies 2014-present.

25. Swapna Yennisetty, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2015. Database Administrator at Walmart 2015-present.

26. Siva Bhaskar Kurapati, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017.

27. Adrian (Cheddar) Ordorica, "Operating system identification by IPv6 communication using machine learning ensembles," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2017. Start date: Aug. 2015. Software Engineer

28. Himasri Lekkala, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2018. Software Engineer

29. Zachary Gunner Lawless, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas. May 2023

30. Aishwarya Dhore, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas. Dec. 2024

31. Bertrand Munnihuzi Kalisa, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas. May 2025

32. Landry Emery Ishimwe Karangwa, M.S. in Computer Engineering course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas. May 2025

33. Matthew Ware, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas. May 2025

34. Drew Stull, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas. Dec. 2025

Undergraduate Student Research

- Brian Roden, "Linux Malware Obfuscation," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2023.
- Byron Denham, "Ransomware and Malware Sandboxing," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2022.
- Jarrett Hoover, "Analysis of GPU Memory Vulnerabilities," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2022.
- Cole Hoover, "Comparative Study of Snort 3 and Suricata Intrusion Detection Systems," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2022.

- Zachary Gunner Lawless, "TruncTrimmer: A first step towards automating standard bioinformatic analysis," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2021. Start date: Aug. 2019
- Alycia N. Carey, "On the explanation and implementation of three open-source fully homomorphic encryption libraries," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2020.
- Brok Stafford, "Dynamic 3D Network Data Visualization," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018.
- Zach Roth, "Usability of Sound-Driven User Interface," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018.
- Silas Lankford, "Simulating Foodborne Pathogens in Poultry Production and Processing to Defend Against Intentional Contamination," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017.
- Tyler Warren, "Portable network analyzer," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2011. Start date: Aug. 2009.
- Eric Specking, "RFID-enabled access control security testing," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2009. Start date: Aug. 15, 2008.
- Barret Miller, "Steganography in IPv6," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2008. Start date: Jan. 1, 2008.
- Ross Urban, "Behavior of Radio Frequency Identification Readers Acting as RFID Tags: Analyzing a Second RFID Reader Using this Technique," B.S. project, Dept. Computer Science and Computer Engineering, University of Arkansas, Jun. 2007 – Dec. 2007
- Richard Vernon, "Analysis of hacker tools and techniques through the deployment of a first generation honeynet," B.S. undergraduate project, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2003. Start date: Aug. 2002. Accepted into the NSF Cybercorp Scholarship for Service program at Naval Post Graduate School.

Ph.D. Committee Member

1. Javid Amirazodi, "Nonlinear observer-based synchronization of chaotic systems with applications to secure communications," Ph.D. in Electrical Engineering, Summer 01
2. Mosleh M. Al-Harthi, "Disturbance suppression control in oil well drill strings," Ph.D. in Electrical Engineering, Summer 01
3. Ning Zhu, Ph.D. candidate in CSCE
4. Adil Salim Bahakeem, "Resilient and robust observer design with general criteria using LMIs," Ph.D. dissertation, Dept. of Electrical Engineering, University of Arkansas, Dec. 7, 2004. Advisor: Neil Schmidt
5. Maryum Sari Nuser, "Models of large sets of non-crosshybridizing DNA oligonucleotides," Ph.D. dissertation in Computer Science, Dept. of Computer Science and Computer Engineering, University of Arkansas, Dec. 8, 2004. Advisor: Russell Deaton
6. Pawel Wolinski, Ph.D. dissertation, Dept. of Computer Science and Computer Engineering, University of Arkansas, May 2005. Advisor: Amy Apon
7. Yanjun (Frank) Zuo, "Towards a framework of object trust management for information assurance within an information-oriented virtual organization," Ph.D. dissertation in Computer Science, Dept. of Computer Science and Computer Engineering, University of Arkansas, Aug. 2005. Advisor: Brajendra Panda
8. Zhe Li, "Intermodal freight transportation routing under uncertainty," Ph.D. dissertation proposal in Industrial Engineering, Dept. of Industrial Engineering, University of Arkansas, Dec. 2005. Advisor: Heather Nachtmann
9. Baochuan (Robert) Lu, "An integrated capacity planning environment for enterprise grids," Ph.D. dissertation, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Amy Apon

10. Qutaibah Althebyan, "Design and analysis of knowledge-based centric insider threat models," Ph.D. dissertation, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2008. Advisor: Brajendra Panda

11. Brian J. Sepko, "Cooperative communications in the presence of interference," Ph.D. dissertation, Dept. Electrical Engineering, University of Arkansas, May 2009. Advisor: Wookwon Lee

12. Qussai Yaseem, "Tackling insider threat in relational databases," Ph.D. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2012. Advisor: Brajendra Panda

13. Ning Sun, "Distortion-tolerant communications with correlated information," Ph.D. in Electrical Engineering, Dept. Electrical Engineering, University of Arkansas, Aug., 2013. Advisor: Jingxian Wu

14. Michael Hinds, "A low power asynchronous MSP430 microcontroller," Ph.D. Candidacy Proposal in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Oct. 31, 2013. Advisor: Jia Di

15. Landon Caley, "High temperature CMOS silicon carbide asynchronous gate driver controller design," Ph.D. Candidacy Proposal in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Apr. 17, 2014. Advisor: Jia Di

16. Liang Men, "Asynchronous Data Processing Platforms for Energy Efficiency, Performance, and Scalability," Ph.D. Candidacy Proposal in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 16, 2014. Advisor: Jia Di

17. Mahmood Shihadeh Saadeh, "Model development and validation for wind generation transmission systems," Ph.D. in Electrical Engineering, Dept. Electrical Engineering, University of Arkansas, Aug., 2015. Advisor: Roy McCann

18. Michael Hinds, "Design and analysis of an asynchronous microcontroller," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug., 2016. Advisor: Jia Di

19. Liang Men, "Asynchronous data processing platforms for energy efficiency, performance, and scalability," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug., 2016. Advisor: Jia Di

20. Katanosh Morovat, "Designing secure access control model in cyber social network," Ph.D. dissertation, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Brajendra Panda

21. Nathan W. Kuhns, "Power efficient high temperature asynchronous microcontroller design," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Jia Di

22. Chien-Wei (Alex) Lo, "Energy and performance balancing architecture for asynchronous data processing platforms," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2017. Advisor: Jia Di

23. Francis Sabado, "Asynchronous 3D (Async3D): design methodology and analysis of 3D asynchronous circuits", Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2017. Advisor: Jia Di

24. Ang Li, "Privacy-preserving systems for photo taking, storing and sharing", Ph.D. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018. Advisor: Qinghua Li

25. Thao Le, "Securing soft IPs against hardware Trojan insertion", Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018. Advisor: Jia Di

26. Festus Hategekimana, "Hardware isolation mechanisms for security management in FPGA-based SOCs", Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018. Advisor: Christophe Bobda

27. Andrew Suchanek, "Asynchronous circuit stacking for simplified power management", Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018. Advisor: Jia Di

28. John Brady, "Evaluation and analysis of NULL convention logic circuits," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2019. Advisor: Jia Di

29. Jean Pierre Thierry Habimana, "Non-volatile memory adaptation in asynchronous microcontroller for low leakage power and fast turn-on time," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2021. Advisor: Jia Di

30. Wassim Khalil, "Stream processor development using multi-threshold NULL convention logic asynchronous design methodology," Ph.D. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2023. Advisor: Jia Di

31. Jackson McCauley, Qualifying Exam on Chiplet Technology, Ph.D. in Computer Engineering, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Nov. 2023. Advisor: Jia Di

32. Calvin Herbek, Qualifying Exam, Ph.D. in Computer Engineering, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, April 2024. Advisor: Jia Di

33. Mark Howard, "Asynchronous RESet (ARES) physically unclonable function gate design", Ph.D. in Computer Engineering, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Dec. 2024. Advisor: Jia Di

M.S. Committee Member

1. Dominika Komorovskaya, "ADSL versus Cable Modem services in the City of Fayetteville," M.S., Fall 00

2. Qingxiu (Lillian) Luo, "Web application with Java Servlets for delivery of thermal scour data," M.S. in Computer Engineering (project), Fall 00 - Summer 02

3. Tao Guo, "Implementation of multi-thread and JavaParty for simulation of DNA computing in distributed environment," M.S. in Computer Engineering (project), Fall 00 - Fall 01

4. Ning Zhu, "Data matching using latent semantic analysis," M.S. in Computer Engineering, Spring 01 - Fall 01

5. Cameron Porter, "An implementation of HTML data compression in web servers and browsers," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2001. Advisor: Bob Crisp

6. Baochuan "Robert" Lu, "W-CDMA Base Station Specification and Implementation", M.S. in Computer Engineering (project), Spring 01

7. Fawzi A. Radwan, M.S. in Electrical Engineering, Fall 01

8. William T. Black, "Fixed wavelengths in photorefractive crystals," Physics, Spring 02

9. Tony Kassel, "Investigation of CdSenanocrystals as a chromophore in a polymer electro-optic modulator," M.S. in Microelectronics and Photonics program in Physics, Spring 02

10. Maryam Sari Nuser, "Computer Simulations and Design of DNA Oligonucleotide libraries for Computation", M.S. in Computer Science (thesis), April 02

11. Annapurna Samala, "HP Problem - As an application of DNA Computing (DNA) & in vitro selection of non-cross hybridizing oligonucleotides," M.S. in Computer Science (project), Summer 02

12. Jianghon Qian, "Learning and Recognition for Pathogenic DNA Sequence Detection by Computing Simulation", M.S. in Computer Engineering (project), Dec. 02

13. Yanjun (Frank) Zuo, M.S. in Computer Science, "Classification of computer viruses based on their spreading mechanisms," May 2003.

14. Shelby Seward, M.S. in Computer Engineering (thesis), "Fault injection in an on-line and off-line testable circuits at the VHDL level," May 2003.

15. Mohammed Asmat Khan, M.S. in Telecommunications Engineering (thesis), "A new approach to improved fairness and throughput in CSMA/CD," May 2003.

16. Mujahed Ibrahim, M.S. in Computer Engineering, "Sorting using MPI and PVFS on workstation clusters," May 2003.

17. Fawzi A. Radwan, M.S. in Electrical Engineering, "Real-time monitoring and controlling an Allen-Bradley SLC500 through Internet", June 2003.

18. Jun Yan, M.S. in Telecommunications Engineering, "Performance enhancement for CSMA/CD with adaptive contention window scheme," July 2003.

19. Ameera Jaradat, M.S. in Computer Science, "Small world models of noise from common terms among large sets of textual records," Oct. 2003.
20. Jarret Warren, M.S. in Computer Science, "Parallization of data mining algorithms on computing grids," April 28, 2004.
21. Carl E. Nelson, M.S. in Electrical Engineering (nonthesis), July 28, 2004.
22. William Thomas Black, M.S. in Physics, "Behavior of 1D soliton and waveguide arrays," advisor: Gregory Salamo, 10/29/04
23. Satish K. Gunnu Venkata, "Modeling social normals in multiagent systems," M.S. thesis in Computer Science, Dept. of Computer Science and Computer Engineering, University of Arkansas, May 2005. Advisor: Henry Hexmoor
24. Kurt A. Landrus, "WebMPI – a secure cluster web interface using Shibboleth," M.S. thesis in Computer Engineering, Dept. of Computer Science and Computer Engineering, University of Arkansas, May 2005. Advisor: Amy Apon
25. Stephen Farris, "A neural network approach to approximating the G/G/m and GI/G/m queues," M.S. thesis, Dept. of Industrial Engineering, University of Arkansas, Aug. 2005. Advisor: Manuel Rossetti
26. Jonathan Schisler, "GRINDEX: framework and prototype for a grid-based index," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2005. Advisor: Craig Thompson
27. Bart Taylor, "Architectural trade-off for unifying campus grid resources," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2005. Advisor: Amy Apon
28. Linh Ngo, "Shibbolized subversion repository," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2005. Advisor: Amy Apon
29. John Serio, "Development and verification for IEEE 1393 ring networks," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2006. Advisor: Pat Parkerson
30. Matt Baker, "Methods for maintaining local cluster resources for intercampus and intracampus grids," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Jun. 2006. Advisor: Amy Apon
31. Rajesh Akula, "An agent based methodology for comparing service policies using a dynamic trust model," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, July 2006. Advisor: Henry Hexmoor
32. Siddharta Gadang "Bit vector based provenance tracking system," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2006. Advisor: Brajendra Panda
33. Reid Phillips, "Grindex2: extensible indexing in a grid-based relational database management system," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Nov. 2006. Advisor: Craig Thompson
34. Omar Sabbarini, M.S. non-thesis in Telecommunications Engineering, Dept. Electrical Engineering, University of Arkansas, Dec. 2006. Advisor: Wookwon Lee
35. Aaron Arthurs, "Overflow and underflow detection and correction for fixed-point multiplication," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2007. Advisor: Pat Parkerson
36. Sajin Shrestha, "Data undeletion from flash memory drives," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2007. Advisor: Pat Parkerson
37. Temitola Okunoren, "Effect of chaotic sequences on multipath code division multiple access channels," M.S. in Telecommunications Engineering, Dept. Electrical Engineering, University of Arkansas, May 2007. Advisor: Wookwon Lee
38. Colin Furrow, "Linear behavior of two-dimensional wavelength arrays," M.S. in Physics, Aug. 2007. Advisor: Gregory Salamo
39. Hadi Sabaa, "A model for data authentication and provenance management," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2007. Advisor: Brajendra Panda

40. Manideep Chagarlamudi, "Identifying unauthorized activities by an insider in a database system," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2007. Advisor: Brajendra Panda

41. Kyle Neumeier, "Smart device virtualization: building an LLRP RFID reader emulation tool," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Craig W. Thompson

42. Suman Bharath, "Message reliability over UDP," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Craig W. Thompson

43. Micah Byers, "Power efficient implementation of discrete logarithm transformation for integer exponentiation," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Jia Di

44. Brent Hollosi, "8051-compliant asynchronous microcontroller core design, fabrication, and testing for extreme environment," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Jia Di

45. Swathi Musunuri, "Developing a test harness for TagCentric," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2008. Advisor: Craig W. Thompson

46. Yermek Nugmanov, "Cost effective optimization of data dependency based intrusion detection," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2008. Advisor: BrajendraPanda

47. Dinesh Neelapala, "Using FP-growth algorithm for database intrusion detection," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2008. Advisor: Brajendra Panda

48. Hung V. Bui, "Fairshare scheduling – a case study," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2008. Advisor: Amy Apon

49. Baha' Adnan Alsaify, "Energy efficient mechanisms for high-performance wireless sensor networks," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2009. Advisor: Haiying (Helen) Shen

50. Washington Cilio, "Side-channel attack mitigation using dual-space dual-rail delay-insensitive logic," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2009. Advisor: Jia Di

51. Weihan Li, "A damage prediction based transaction management model for database insider threat mitigation," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2010. Advisor: Brajendra Panda

52. Liou Kok Hin, "RFID reader module and remote electronics unit control software," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2010. Advisor: Jia Di

53. Ross Thian, "Multi-threshold CMOS circuit design methodology from 2D to 3D," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2010. Advisor: Jia Di

54. Haibo Zhang, "Accelerometer augmented GPS localization tool using hidden Markov model," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2010. Advisor: Nilanjan Banerjee

55. Raghavan Vangipuram, "Extraneous factors affecting node reputation in peer to peer systems," M.S. project in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2010. Advisor: Brajendra Panda

56. Wiwat Leebhaisomboon, "Enabling transfer-of-ownership capability," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2011. Advisor: Jia Di

57. Jordan R. Yust, "Hardware Trojan detection through statistical checking," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2011. Advisor: Jia Di

58. Chris Porter, "Balancing delay-insensitive ternary logic circuit for mitigating side-channel attacks," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2011. Advisor: Jia Di

59. Sarath Krishna Mandava, "Location-aware traffic management on mobile phones," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2011. Advisor: Nilanjan Banerjee

60. Harini Ragavan, "Insider threat mitigation models based on thresholds and dependencies," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2012. Advisor: Brajendra Panda

61. Deiby Marcos Santos, "Secure data management system based on the user authenticity," M.S. project in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2013. Advisor: Brajendra Panda

62. Justin Roark, "Analysis of parameter tuning on energy efficiency in asynchronous circuits," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2013. Advisor: Jia Di

63. Michael J. Isteevan, M.S. in Electrical Engineering (non-thesis), Dept. Electrical Engineering, University of Arkansas, Aug. 2013. Advisor: Jingxian Wu

64. Ann Smittu Joseph, "Conceptual, impact-based publications recommendations," M.S. thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2013. Advisor: Susan Gauch

65. Christina Smith, "An open source, line rate datagram protocol facilitating message resiliency over an imperfect channel," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2013. Advisor: David Andrews

66. John Brady, "Radiation-hardened delay-insensitive asynchronous circuits for multi-bit SEU mitigation and data-retaining SEL protection," M.S. thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2014. Advisor: Jia Di

67. Frank Panebianco, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, May 2014. Advisor: Ronald Rardin

68. Jonathan McCrary, "Tracking item location using passive RFID and a single mobile reader," M.S. project in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2014. Advisor: Craig Thompson

69. Sean Evanuik, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, Dec. 2015. Advisor: Roy McCann

70. Francis Sabado, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2015. Advisor: Jia Di

71. Lucas Weaver, "Hardware trojan detection via golden reference library matching," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2016. Advisor: Jia Di

72. David Smith, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, May 2016. Advisor: Roy McCann

73. Paul Walton, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2016. Advisor: Wing Ning Li

74. Michael Theodos, M.S. in Engineering (MSE), Master of Science in Engineering (ENGRME) Online Program, University of Arkansas, Dec. 2016. Advisor: Roy McCann

75. Andrew (Drew) Suchanek, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Jia Di

76. Jean Pierre Thierry Habimana, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Jia Di

77. Ang Li, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Qinghua Li

78. Festus Hategekimana, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2017. Advisor: Christophe Bobda

79. Brent Bell, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2017. Advisor: Jia Di

80. William (Bill) Bouillon, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2017. Advisor: Jia Di

81. Prashant Dinkar Borhade, "Smart surge irrigation using microcontroller based embedded systems and the Internet of things", M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2018. Advisor: Christophe Bobda

82. Venkateshwar Rao Vemulapally, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2018. Advisor: Miaoqing Huang

83. Manisha Maram, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Brajendra Panda

84. Nicholas Mize, "Asynchronous circuit synthesis using multi-threshold NULL convention logic," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Jia Di

85. Taylor Whitaker, "Towards a prototype for ROS integrations on a ground robot," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Xiaoqing (Frank) Liu

86. Brendan McGeehan, "Hardware IP classification through weighted characteristics," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Jia Di

87. Poojitha Daggumalli, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2019. Advisor: Brajendra Panda

88. Shivani Ingale, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2019. Advisor: Brajendra Panda

89. Pooja Mukherjee, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2019. Advisor: Brajendra Panda

90. Keaten Stokke, "An FPGA-based hardware accelerator for the digital image correlation engine," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2020. Advisor: David Andrews

91. Chandra Sekhar Hari, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2020. Advisor: Miaoqing Huang

92. Savanth Kumar Battikadi, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2020. Advisor: Miaoqing Huang

93. Noah Waller, "Characteristic for hardware trojan detection," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2021. Advisor: Jia Di

94. David Darling, "Automated privacy protection for mobile device users and bystanders in public spaces," M.S. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2021. Advisor: Qinghua Li

95. Nathan Davis, "Component Damage Source Identification for Critical Infrastructure Systems," M.S. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2021. Advisor: Brajendra Panda

96. Neha Jonnalagadda, M.S. in Computer Science course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2021. Advisor: Miaoqing Huang

97. Ian Moncur, "A novel data lineage model for critical infrastructure and a solution to a special case of the temporal graph reachability problem," M.S. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2022. Advisor: Brajendra Panda

98. Mark Howard, M.S. in Computer Engineering course-only option, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2022. Advisor: Jia Di

99. Phillip Boudreau, "Effective knowledge graph aggregation for malware-related cybersecurity text," M.S. in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Aug. 2022. Advisor: Brajendra Panda

100. Julie Bigot, "Design and comparison of asynchronous FFT implementations," M.S. in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2022. Advisor: Jia Di

101. Jared Harris, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Dec. 2023. Advisor: Susan Gauch

102. William Andrew Burroughs, "Inferring vulnerabilities from encrypted network traffic," M.S. in Computer Science, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Dec. 2023. Advisor: Qinghua Li

103. Jackson McCauley, "Resilience analysis of asynchronous circuits," M.S. in Computer Engineering course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, May 2025. Advisor: Jia Di

104. M. Forrest Tennant, M.S. in Computer Engineering course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, May 2025. Advisor: Jia Di

105. Md Taef Uddin Nadum, "Classifying advanced persistent threat stages and techniques via graph-enhanced network flow representations," M.S. in Computer Science thesis, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Summer 2025. Advisor: Qinghua Li

106. Mayeesha Mahzabin, M.S. in Computer Science course-only option, Dept. Electrical Engineering and Computer Science (EECS), University of Arkansas, Dec. 2025. Advisor: Brajendra Panda

Honors Thesis Committee Member

- Brian Russell, "Analysis of a fault-tolerant field programmable gate array architecture," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2010. Advisor: Pat Parkerson, Ph.D.

- Andrew Lawrence, "Forensic investigation of MySQL database management system," Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2013. Advisor: Brajendra Panda

- Calvin Freeman, "Bluetooth low energy platform with Simblee," Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2016. Advisor: Pat Parkerson

- Luke Snyder, "An agent-based approach to simulating the minimum wage market", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2018. Advisor: Wing Ning Li

- Adam Bliss, "Learning-based analysis on the exploitability of security vulnerabilities", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2018. Advisor: Qinghua Li

- Erich-Matthew Pulfer, "Different approaches to blurring digital images and their effect on facial detection", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Qinghua Li

- Brady Gilleran, "Identifying fake news using emotion analysis", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2019. Advisor: Susan Gauch

- Huy Mai, "Semi-supervised spatial-temporal feature learning on anomaly-based network intrusion detection", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2021. Advisor: Justin Zhan

- Ronald Velasquez, "Automated report based system to encourage a greene committee to campus", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, Dec. 2021. Advisor: Matt Patitz

- Alexandria Lim, "Preserving user data privacy through the development of an Android solid library", Honors thesis in Computer Engineering, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2023. Advisor: Alex Nelson

- Benton Anderson, "A defense of Humean Theory", Honors thesis in Philosophy, Dept. Philosophy, University of Arkansas, May 2024. Advisor: Richard Lee, defense 4/8/24

- Hector Salimas, "An exploration of procedural methods in game level design", Honors thesis in Computer Science, Dept. Computer Science and Computer Engineering, University of Arkansas, May 2024. Advisor: John Gauch

- Seth Howard, "DDoS detection and mitigation using multiple programmable switches for industrial network security", Honors thesis in Computer Science, Dept. of Electrical Engineering and Computer Science (EECS), University of Arkansas, May 2025. Advisor: Kevin Jin

PROFESSIONAL/FACULTY DEVELOPMENT ACTIVITIES ATTENDED

- Attended Adult Mental Health First Aid training, 7/3/2025
- NSF Scholarship for Service career fair: Washington, D.C, Jan. 13-14, 2020; Maryland, Jan. 10-13, 2023; Washington D.C., Jan. 8-10, 2024; Washington D.C., Jan. 6-9, 2025
- Sp4rckCon (Walmart security conference), Bentonville, AR, 5/4/2019, 4/15/2023, 4/20/2024
- University of Arkansas Teaching Academy Meeting, 2/15/2024
- NICE Conference and Expo, Seattle, WA, Jun. 6-7, 2023.
- Cybersecurity Resilience Workshop, Rogers, AR, 6/15/2023
- NSF CISE Virtual Meeting with CSCE Dept., 8/18/2021
- University of Arkansas High-Impact Practices (HIP) teaching workshop, Fayetteville, AR, July 30, 2021
- CAE in Cybersecurity Symposium, Phoenix, AZ, Nov. 21-22, 2019, represent UofA as a CAE-R.
- NICE 2019 Conference and Expo, Phoenix, AZ, Nov. 18-20, 2019.
- Arkansas Bioinformatics Consortium (AR-BIC 2019), Little Rock, AR, 2/25/19 - 2/26/19, presentation on "Computer Cyber Security Training and Food Science".
- CISE/HER Broadening Participation and Education in Computing PI and Community Meeting, Alexandria, VA, Mar. 11-13, 2018.
- ACM Technical Symposium on Computing Science Education (SIGCSE), Baltimore, MD, Feb. 21-24, 2018.
- American Cyber Alliance 2018 Cyber Summit, Camp Robinson, North Little Rock, AR, Dec. 12, 2018.
- Arkansas Association of Food Protection (AAFP) Conference, Fayetteville, AR, 9/20/2018
- Cybersecurity Research Gap Analysis, College of Engineering, Fayetteville, AR, 12/14/17.
- Arkansas Association of Food Protection (AAFP) Conference, Springdale, AR, 9/19-9/20/17
- Met with CTO of Sam's Club, Fayetteville, AR, 9/14/17.
- Arkansas Computer Science Education Leadership Summit, Russellville, AR, Oct. 12, 2017.
- Met with new UA Chief Information Security Officer (CISO), 8/10/17
- Interdisciplinary Data Science, Predictive Analytics, and Big Data Retreat hosted by University of Arkansas, Fayetteville, AR, 5/15/17.
- Met with National Renewable Energy Lab Director from NREL, Fayetteville, AR, 4/27/17
- Department of Energy Lab Day, University of Arkansas, Fayetteville, AR, 4/18/17
- NSF CISE Broadening and Education in Computing PI and Community Meeting, Denver, CO, 3/26/17
- Walmart Cybersecurity Meeting, Bentonville, AR, 2/20/17
- NSA/DHS Center of Academic Excellence (CAE) Community Meeting, Kansas City, MO, 11/3/16.
- Arkansas Computer Science Education Leadership Summit, Russellville, AR, Oct. 20, 2016.
- Poultry Facilities Food Defense Workshop, participated in FBI table-top exercise, AAFP Conference, Fayetteville, AR, 9/15/16.
- Arkansas Association of Food Protection (AAFP) Conference, Fayetteville, AR, 9/13-9/15/16
- College of Engineering Alumni Banquet and Ball, Fayetteville, AR, April 9, 2016
- Arkansas Academy of Computing University of Arkansas Chapter, Springdale, AR, April 8, 2016.
- NIST National Cybersecurity Center of Excellence (NCCOE) Visit, Fayetteville, AR, Jan. 20, 2016.
- BARD (Bi-national Agriculture Research and Development Fund) meeting, Fayetteville, AR, Dec. 9, 2015.
- Second Annual Arkansas Computer Science Leadership Summit, Hot Springs, AR, Oct. 8, 2015.
- Cloud Security Curriculum Workshop, UNC, Chapel Hill, NC, July 15-17, 2015
- Cyber Security Summit, Huntsville, AL, June 3-4, 2015
- NIST National Cybersecurity Center of Excellence (NCCoE), Rockville, MD, June 19, 2014
- Cerner 2014 University Summit at Overland Park Convention Center, Kansas City, KS, June 2-4, 2014
- IEEE Radio and Wireless Week, 1/22/14
- IEEE International Conference on RFID, Orlando, FL, 4/27/09, 4/15/10, 4/12/11, 4/3/12

- IEEE Technical Committee on RFID (CRFID), Orlando, FL, 4/11/11, 4/2/12
- UA RFID Research Center Board Meeting, Fayetteville, AR, 10/12/10, 2/22/11, 3/15/12, 5/9/12
- Voluntary Interindustry Commerce Solutions (VICs) meeting, Fayetteville, AR, 10/27/09
- Item Level RFID Committee Meeting, Fayetteville, AR, 10/12/10
- NSF Trustworthy Computing, Arlington, VA, 5/12/10
- IEEE Technical Committee on RFID (CRFID), Orlando, FL, 4/26/09
- NSF NetSE Informational Meeting, 9/5/08.
- Baum Teaching Workshop, Aug. 21, 2008.
- IEEE RFID Task Force meeting, 6/22/08, Denver, CO.
- Guest researcher at National Institute of Standards and Technology (NIST) at Boulder, CO. Collaborating on methods for preventing counterfeiting of RFID tags. Summer 2008
- Cyber Trust PI meeting: March 16-18, 2008, at Yale University in New Haven, CT
- RFID Security Workshop: From Theory to Practice at Johns Hopkins University in Baltimore, MD, Jan. 23-24, 2008.

UNIVERSITY SERVICE

College Service

- UA College of Engineering Program Committee, Aug. 2018 - present
- UA College of Engineering Coop Committee, Aug. 2021 - July 2023, Aug. 2024 - present
- UA College of Engineering Cybersecurity Working Group, 8/29/2024 - present
- UA College of Engineering Advising Meeting, 5/5/2023
- UA College of Engineering Commencement, CSCE Interim Department Head, Dec. 2020
- UA College of Engineering Commencement, bearer of the mace, May 14, 2016, May 11, 2019
- UA College of Engineering Associate Dean for Academics (ADA) Search Committee, 11/17/14 - 5/15/15
- UA College of Engineering Distance Education Committee, 5/10 – 5/16.
- Wrote recommendation for UA College of Engineering award, 2/23/17.
- UA College M.S. in Operations Management and M.S. in Engineering Meeting, 8/2/14.
- UA College of Engineering Technology Committee chairperson, 8/07 – 8/12, member 8/05 - 8/13
- UA College of Engineering Freshman Engineering Program Honors Faculty Colloquium, 8/31/10, 9/13/11
- UA ELEG Dept. Head Search Committee, 8/06–5/07
- UA Micro-Electronics Photonics Chair of PhD Candidacy Exam, Spring 03

Department Service

- UA EECS Associate Department Head for Academics, August 15, 2023 - present. Do degree audits for students that apply for graduation, approve/disapprove all degrees, update degree audits in online system, submit curriculum changes, submit course changes, approve all class overrides, approve courses for VA students, approve student coop's, internships, and CPT for students seeking course credit, advise transfer students, advise faculty and students on curriculum issues, determine equivalent courses from other institutions, meet with potential students, respond to general curriculum questions, and backup the Department Head if they are unavailable as well as other miscellaneous duties.
- UA EECS Dept Undergraduate Studies Committee (USC), chairperson, 8/16 - present
- UA EECS Dept ABET Coordinator, 8/07 – present

- UA EECS Dept – Lead for debugging transition to new student record system that went live in Fall 2025 including testing, debugging, and putting in requests to fix system issues such as degree audits and course configurations, Jan. 2025 – present
- UA EECS Dept – Member of Assistant to Department Head staff search committee, Nov. 2025 - Feb. 2026
- UA EECS Dept – Chaired Instructor search committee, May – July 2025
- UA EECS Dept – Member of Strategic Planning committee, 2025
- UA EECS Dept – Met with Google, 10/29/2025
- UA EECS Dept – Met with Rocket Software, 10/9/2025
- UA EECS Dept – Met with Office of Personnel Management (OPM) for evaluating the Scholarship for Service (SFS) program on a national level, 4/24/2025
- UA EECS Dept – Evaluated teaching of faculty member, 3/27/2024, 4/18/2025
- UA EECS Dept – Chaired Administrative Specialist III staff search committee, June - July 2024
- UA EECS Dept – Attended High School Programming Contest, 3/11/2023, 3/8/2024
- UA EECS Dept – NSF Scholarship for Service (SFS) recruiting in classes Fall and Spring March 2021 - 2024
- UA EECS Dept – NSF SFS applicant interviews, 2020 - 2024
- UA EECS Dept – Qualifying exam questions, 3/8/05, 1/26/10, 2/11/14, 2/8/15, 2/7/16, 1/25/17, 2/22/2018 (OS), 2/14/2019 (OS), Spring 2020 (OS), Fall 2020 (OS), Spring 2021 (OS), Spring 2022 (OS), Spring 2023 (OS), Spring 2024 (OS)
- UA EECS Dept – Presented at CSCE Industry Advisory Board, 12/7/2024
- UA CSCE Associate Department Head for the Undergraduate Program, May 15, 2018 - June 2023.
- UA CSCE Dept – Meeting with ArcBest to discuss recruiting and attend internship presentations, 7/26/2023
- UA CSCE Dept – Meeting with Arvest to discuss recruiting 10/26/2022, 7/18/2023
- UA CSCE Dept Faculty Search Committee Chair for Associate Teaching Professor, 3/8/2023 – 8/14/2023
- UA CSCE Dept Founder and Faculty Advisor for the Cybersecurity Club (CyberHogs), 1/15/16 - 12/31/2021. Assistant beginning 1/1/2022. Team qualified for and participated in the regional competition in Tulsa, OK, on March 23-25, 2018. Team qualified for and participated in the regional competition in Tulsa, OK, on March 21-24, 2019. Team qualified for regional competition in Tulsa, OK, on March 19-22, 2020, but it was cancelled because of COVID-19.
- UA CSCE NSF Scholarship for Service (SFS) meeting, Fayetteville, AR, 9/13/2021
- UA CSCE DoD Cyber Scholarship Program (CySP) interviews, Fall 2021
- UA CSCE Dept FEP Information Session, 9/17/2021
- UA CSCE Dept FEP Recruiting Sessions. First-Year Engineering Program (FEP) Departmental recruiting sessions. Feb. 3 and 6, 2020 (∼146 students). Feb. 2-3, 2021 (∼140 students). Feb. 1, 2022 (∼95 students), Feb. 1 and 6, 2023
- UA CSCE First-Year Engineering Program (FEP) Sophomore Advising. Mar. 11, 2022.
- UA CSCE Dept FEP Decision Day 3/5/2021
- UA CSCE Representative at Greater Bentonville Area Chamber of Commerce meeting to attract technology company to NWA, May 2021
- UA CSCE Fiscal Support Manager Search Committee, Spring 2021
- UA CSCE Interim Department Head, July 1 - Dec. 31, 2020. During this timeframe, I led the CSCE department of approximately 700 students and 20 faculty during the COVID-19 pandemic when courses were being taught in three modes of delivery: face-to-face, remote synchronous, or hybrid. This required being flexible and agile to accommodate decreased room capacities, requiring that all classes be streamed to students and recorded, while managing a changing environment. I worked with staff, college, and university to transition to a new financial system that required many adjustments of business processes. Finally, I coordinated the virtual ABET evaluation visit that happens every six years for the B.S. in Computer Engineering and B.S. in Computer Science programs.
- UA CSCE Dept – Wrote ABET Self-Study Report for the B.S. in Computer Engineering Program at the University of Arkansas, Fayetteville, Arkansas, 8/15/2019 - 7/1/2020
- UA CSCE Dept – Wrote ABET Self-Study Report for the B.S. in Computer Science Program at the University of Arkansas, Fayetteville, Arkansas, 8/15/2019 - 7/1/2020

- UA CSCE Dept Administrative Specialist III Search Committee Chair. (July 2020 - October 2020)
- UA CSCE Dept FEP Sophomore Departmental Advising. March 13 switched to doing online advising of all incoming Freshman with a recorded presentation and phone and online advising because of COVID-19. (March 2020).
- UA CSCE Fiscal Support Manager Search Committee, July-Aug. 2019
- UA CSCE High Educations Institution (HEI) Program Coordinator Search Committee, Feb.-Mar. 2019 and Aug.-Sep. 2019
- UA CSCE Recruiting at Fayetteville Christian School, 9/24/2019 (14 students)
- Met with high school students at Farmington High School to promote the Department of Computer Science and Computer Engineering (CSCE), the College of Engineering, and the University of Arkansas, 2/20/2018.
- UA CSCE Dept - Reviewed Assistant Professor's teaching as part of the review process, 9/5/17
- UA CSCE Dept - Reviewed all degree checks for B.S. in CE, B.S. in CS, and B.A. in CS students applying for graduation in May 2017 and Dec. 2017.
- UA CSCE Dept – Wrote ABET Self-Study Report for the Computer Engineering Program at the University of Arkansas, Fayetteville, Arkansas, 7/1/08, 2/4/14
- UA CSCE Undergraduate Curriculum Committee, 8/06–7/07, 2013-15
- UA CSCE Dept Technology Committee, 8/06 – 5/16
- UA CSCE Dept Faculty Search Committee for 3 positions, 8/15/11 – 5/15/12
- UA CSCE Dept Engineering Highlights, 18 high school students, 10/15/11
- UA CSCE Dept Personnel Committee, 9/20/10–8/15/11
- UA CSCE Dept Faculty Search Committee, 1/1/09 – 12/31/10
- UA CSCE Dept Center of Academic Excellence Ad Hoc, 5/06–7/07
- UA CSCE Dept Head Search Committee, 4/06– 5/07
- UA CSCE Graduate Studies Committee, 1/06–8/06
- UA CSCE Ad Hoc Faculty Search Committee, 12/05–7/06
- UA CSCE qualifying exam question, 3/8/05, 1/26/10, 2/11/14, 2/8/15, 2/7/16, Spring 2020, Fall 2020
- UA CSCE qualifying exam proctor, 10/13/16
- UA CSCE Interim Department Head Search Committee, Fall 04
- UA CSCE Search Committee for Computer Engineering Faculty, Fall 03 –04
- UA CSCE Undergraduate Curriculum Committee, Fall 03
- UA CSCE Lab committee, Fall 03
- UA CSCE Networking and Telecommunications technical committee, Fall 00
- UA CSCE Embedded (Hardware and Software) and Distributed systems technical committee, Fall 02
- UA CSCE/ELEG Computer Hardware technical committee, Spring 01
- UA CSCE/ELEG Mixed Signals/Telecommunications technical committee, Fall 00

University Service

- UA Arkansas Security Research and Education (ASCENT) Institute, co-founder, http://ascent.uark.edu, 2016 - present
- UA Center for Information Security and Reliability, associate director. http://isr.csce.uark.edu, 2010 - 2025
- All-University Commencement, Marshall, May 14, 2016, May 11, 2019
- Advisory board member for the 2018 SEC Academic Conference held at Auburn University, April 8-10, 2018 representing the University of Arkansas, the College of Engineering, and the CSCE Dept. The theme was Cyber Security: A Shared Responsibility. We participated by having one student poster from my Honor's student, one ASCENT poster, one student team of three that was coached by me in the Student Cyber Challenge, exhibit space with promotion materials and I served on a session about Interdisciplinary Success Stories.
- UA Student Financial Aid Committee, Aug. 2012 - 2015
- UA University Program Review Committee, 8/27/07 – 2015

- UA Academic Technology Directors, 9/28/09
- UA Graduate Fair at North Carolina A&T, Greensboro, NC, 11/14/07
- Arkansas Research and Education Optical Network (AREON) Utilization Planning Group, 2006
- Northwest Arkansas Science and Engineering Fair judge, 2005

PROFESSIONAL SERVICE

- IEEE Senior Member, 2003 - present
- IEEE Communications Society
- Met with Fayetteville High School computer science teacher to discuss ideas to promote computer science, 2016.
- AP Computer Science Principles Pilot Reader, College Board, Kansas City, June 2016
- Technical Program Committee, IEEE RFID, 2011, 2012, 2014, 2015
- General Vice-Chair of IEEE International Conference on RFID (IEEE RFID), April 3-5, 2012.
- On review team for Master of Science in Information Assurance at University of Nebraska at Omaha, Jan. 31 – Feb. 1, 2012.
- Technical Program Chair of IEEE International Conference on RFID (IEEE RFID), April 12-14, 2011.
- Technical Program Committee, Workshop on RFID Security (RFIDsec'11 Asia), Apr. 6-8, 2011.
- Technical Program Committee, IEEE International Conference on Cyber Technology in Automation, Control, and Intelligent Systems, March 20-23, 2011.
- External reviewer of promotion and tenure package for promotion from Associate Professor to Full Professor, 2010
- Member of IEEE Technical Committee on RFID (CRFID), 2009
- Member of IEEE RFID Task Force, Mar. 2008 –Mar. 2009.
- Program Committee member, Acxiom Laboratory Conference on Applied Research (ALAR), 2009
- Program Co-Chair/Steering Committee, Identity Solutions Symposium and Workshop at Arkansas State University, Feb. 21-22, 2007.
- GS1 EPCglobal Hardware Action Group Product Data Protection ad hoc Committee, Dec. 2006 –2007.
- Session chair, Acxiom Laboratory for Applied Research (ALAR) Conf., Fayetteville, Arkansas, 3/9/07.
- Session chair, Acxiom Laboratory for Applied Research (ALAR) Conf., Conway, Arkansas, Mar. 3, 2006.
- Session chair, Communications II, IEEE Region 5 Technical, Professional, and Student Conf. (TPSC), San Antonio, Texas, April 7-9, 2006.
- Affiliated with University of Arkansas RFID Research Center. The center passed accreditation criteria established by EPCglobal Inc., a global not-for-profit standards organization commercializing the Electronic Product Code™ (EPC) and RFID worldwide. 2005 - 2014.
- Program committee member, International Association of Science and Technology for Development (IASTED) International Conference on Optical Communications Systems and Networks (OCSN 2005)
- Session chair, WDM Networks and Systems at IASTED Int'l Conf. Optical Communications Systems and Networks (OCSN), 7/20/05.
- City of Fayetteville Telecommunications Board, June 2005 to Dec. 31, 2006
- Session chair, SCI 2004 conference, Systems Security and Security Technologies I, 7/19/04
- Session chair, SCI 2004 conference, Applications of Informatics and Cybernetics in Industrial Engineering, 7/19/04

EDITORIAL & REVIEW ACTIVITIES

- Reviewer, IEEE Internet of Things Journal, 7/11/2023
- Reviewer, Information Security Education Journal, 6/5/14, 2/15/16, 4/27/16
- Reviewer, Electronics Letters, 7/25/14, 9/15/14, 5/9/15
- Reviewer, International Journal of Mobile Network Design and Innovation, 11/16/13
- Reviewer, International Journal of Interdisciplinary Telecommunications and Networking, 2013
- Editorial board, International Journal of RF Technologies: Research and Applications, endorsed by Global RF Lab Alliance, 2007 – 2009.
- Reviewer, Wireless Personal Communications journal by Springer, 2010
- Reviewer, NSF, 2009
- Reviewer, NSF EAPSI Panel, 1/13/05
- Reviewer, IEEE Communications Letters, Summer 00, Summer 01, Fall 01, 5/8/04, 8/4/04, 9/30/04, 5/5/05, 4/11/06.
- Reviewer, IEEE Transactions on Fuzzy Systems, 6/17/09
- Reviewer, IEEE Transactions on Medical Imaging, 7/14/06
- Reviewer, IEEE Transactions on Reliability, Spring 00
- Reviewer, IEEE Transactions on Systems, Man, and Cybernetics, Summer 02, Spring 03, Fall 05
- Reviewer, IEEE Internet Computing, 1/15/04, 8/5/04, 11/19/04
- Reviewer, IEEE Network, Oct. 03
- Reviewer, IEEE Pervasive Computing, 12/12/07
- Reviewer, Performance Evaluation Journal by Elsevier, 5/06
- Reviewer, IPSI Journal, 12/05
- Reviewer, Security and Communication Networks Journal by Wiley, 11/8/07
- Reviewer, IEEE International Conference on Communications (ICC), 10/15/04
- Reviewer, IEEE Globecom 2003, April 03
- Reviewer, IEEE Region 5 Technical Conf., 3/15/07
- Reviewer, CSI Journal on Computer Science & Engineering, 3/20/07
- Reviewer, NIST, 7/10/08
- Reviewer, International Association of Science and Technology for Development (IASTED) International Conference on Optical Communications Systems (OCSN 2005)
- Reviewer, Acxiom Laboratory Conference on Applied Research (ALAR), 2/18/05, 1/15/09
- Reviewer, The Handbook of Computer Networks, 4/11/06
- Reviewer, 10 chapters of Computer Networks and Internets with Internet Applications 3/E by Doug Comer, Spring 2003
- Reviewer, The Internet Encyclopedia (chapter on ISDN), Summer 2002

COMPUTER SKILLS

C, C++, Fortran, Java, Python, Maple, Matlab, MPI, PHP; Network Simulator, OPNET; Nessus, nmap, snort; UNIX/LINUX; ATM, DNS, Ethernet, FDDI, SMTP, SNMP, SONET, TCP/IP, WDM; PBX, routers, switches, video teleconferencing