Mengjun Xie, Ph.D.

UC Foundation Professor

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Research Interests

Cybersecurity, Cloud & Edge Computing, Mobile Computing
Social Network Analysis, Big Data Analytics, Computer Education

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Education

01/2010 **Ph.D.**, *Computer Science*, College of William and Mary, Williamsburg, VA, USA
Dissertation: Towards Secure Message Systems. Adviser: Dr. Haining Wang

03/2002 **M.Eng.**, *Computer Science*, East China Normal University, Shanghai, China

07/1999 **B.Eng.**, *Computer Science*, East China Normal University, Shanghai, China

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Appointments

08/2023– **Professor**, *Department of Computer Science and Engineering*, University of Tennessee at
Present Chattanooga, Chattanooga, TN, USA

08/2023– **Director**, *Information Security (InfoSec) Center*, University of Tennessee at Chattanooga,
Present Chattanooga, TN, USA

08/2018– **Associate Professor (with tenure since 08/2020)**, *Department of Computer Science and*
07/2023 *Engineering*, University of Tennessee at Chattanooga, Chattanooga, TN, USA
UC Foundation Professorship since 07/2021

09/2019– **Acting Director**, *Information Security (InfoSec) Center*, University of Tennessee at Chat-
07/2023 tanooga, Chattanooga, TN, USA

08/2018– **Co-Director**, *Information Security (InfoSec) Center*, University of Tennessee at Chattanooga,
08/2019 Chattanooga, TN, USA

08/2016– **Associate Professor (with tenure)**, *Department of Computer Science*, University of Arkansas
07/2018 at Little Rock, Little Rock, AR, USA

08/2010– **Assistant Professor**, *Department of Computer Science*, University of Arkansas at Little Rock,
07/2016 Little Rock, AR, USA

06/2010– **Visiting Researcher**, *Bell Labs*, Alcatel-Lucent, Murray Hill, NJ, USA
08/2010 Mentor: Dr. Indra Widjaja

01/2010– **Adjunct Assistant Professor**, *Department of Computer Science*, College of William and
05/2010 Mary, Williamsburg, VA, USA

06/2008– **Research Intern**, *Bell Labs*, Alcatel-Lucent, Murray Hill, NJ, USA
08/2008 Mentor: Dr. Thomas Y. Woo

Awards & Honors

2023 Senior Membership, Institute of Electrical and Electronic Engineers (IEEE)

2021 UC Foundation Professorship, University of Tennessee at Chattanooga

2019 UTC Faculty Development Grants Award for Conference Presentation

2019 ACM Global Computing Education Conference (CompEd) Travel Award

2017 Faculty Excellence Award in Research, College of EIT, Univ. of Arkansas at Little Rock

2016 Best Poster Award, IEEE Conference on Communications and Network Security

2016 NSF SEED Workshop Fellowship

2015 NIH mHealth Summer Training Institute (mHTI) Fellowship

2013 IEEE ICDCS Travel Award

2008 USENIX NSDI Conference Student Travel Award

2007 ACSAC Conference Student Travel Award

2006 ACM CCS Conference Student Travel Award

Grants

2023–2028 **NSF, PI**, *Collaborative Research: CyberCorps Scholarship for Service (Renewal): Strengthening the National Cybersecurity Workforce with Integrated Learning of AI/ML and Cybersecurity*
Award No.: 2234910, Amount: $2,299,652, Program: CyberCorps Scholarship for Service (SFS)

2021–2023 **NSF, Senior Personnel**, *CyberTraining: Pilot: A Professional Development and Certification Program for Cyberinfrastructure Facilitators*
Award No.: 2118193, Amount: $299,993, Program: OAC

2020–2024 **NSA, Site PI**, *Establishing a Workforce Development Consortium for Pilot AI-Cybersecurity Certification based National Training Program*, Subaward through Purdue University
Subaward No.: 13000952-035, UTC Amount: $1,065,452 (Total Amount: $9,778,920, Award No. H98230-20-1-0351), Program: NCAE-C-003-2020

2020–2023 **NSA, PI**, *Remote Live Forensics for Smart Mobile Devices at Scale*
Award No.: H98230-20-1-0408, Amount: $149,993, Program: NCAE-C-003-2020

2020–2022 **NSA, Site PI**, *CAE-Cybersecurity Education Diversity Initiative (CEDI)*, Subaward through Fordham University
Subaward No.: FORD0064-30353, UTC Amount: $225,927 (Total Amount: $2,999,999, Award No. H98230-20-1-0387), Program: NCAE-C-002-2020

2020–2022 **NSA, PI**, *Accelerating Cybersecurity Faculty Development through an Integrated Approach*
Award No.: H98230-20-1-0374, Amount: $199,997, Program: DoD CySP

2020–2022 **NSA, PI**, *UTC GenCyber Student Camp*
Award No.: H98230-20-1-0092, Amount: $70,193, Program: GenCyber

2020–2020 **UTC, PI**, *Network Intrusion Detection as a Service*
Amount: $2,500, Program: UTC Faculty Development Grants Program

2019–2022 **NSA, PI**, *An Open-source, Cloud-based Hands-on Approach to Faculty Development*
Award No.: H98230-19-1-0315, Amount: $149,103, Program: DoD CySP

2019–2022 **NSA, Co-PI**, *AI in Cybersecurity*
Award No.: H98230-19-1-0315, Amount: $149,998, Program: DoD CySP

2019–2022 **NSA, Co-PI**, *UTC DoD Cyber Scholarship*
Award No.: H98230-19-1-0315, Amount: $62,721, Program: DoD CySP

2019–2022 **TDOT, PI**, *Activity-based Household Travel Survey through Smartphone Apps in Tennessee*
Award No.: RES2020-19, Amount: $199,989, Program: TDOT

2019–2023 **NSF, Co-PI**, *Developing Innovative Privacy Learning Modules to Engage Students in Cybersecurity Education*
Award No.: 1712496, Amount: $300,000, Program: Improving Undergraduate STEM Education (IUSE)

2019–2020 **NSA, Lead Instructor**, *UTC GenCyber Teacher Camp*
Award No.: H98230-19-1-0042, Amount: $62,072, Program: GenCyber

2019–2022 **NSF, Senior Personnel**, *REU Site: ICompBio - Engaging Undergraduates in Interdisciplinary Computing for Biological Research*
Award No.: 1852042, Amount: $351,108, Program: REU

2018–2023 **NSF, Co-PI**, *SFS Program: Strengthening the National Cyber Security Workforce*
Award No.: 1663105, Amount: $1,540,763, Program: CyberCorps Scholarship for Service (SFS)

2018–2019 **UTC, PI**, *ULIRES: A Unified Live Incident Response System for Energy Delivery Systems*
Amount: $20,000, Program: Mini-CEACSE

2018–2019 **SEEDS, PI**, *Live Incident Response for Energy Delivery Systems*, Funds left at UALR
Amount: $130,066 plus $32,917 institutional matching, Program: DOE SEEDS

2017–2018 **NSA, PI**, *NetSiC: A Virtual Lab for Networking and Network Security in the Cloud*
Award No.: H98230-17-1-0273, Amount: $124,537, Program: Cybersecurity National Action Plan (CNAP) Curriculum Development
  ○ The developed curriculum NetSiC Labs is one of the first 10 that were released nationally by NSA
  ○ The NetSiC Labs modules are publicly available at clark.center

2017–2018 **NSF, PI**, *MRI: Acquisition of Peta-Scale Data Storage System for Big Data Exploration in STEM Fields*
Award No.: 1429160, Amount: $291,908, Program: MRI

2017–2018 **NSF, Senior Personnel**, *Type I: University of Arkansas I-Corps Commercialization STEP (STEM Training in Entrepreneurship Practices)*
Award No.: 1735717, Amount: $249,792, Program: I-Corps

2016–2018 **NSF, PI**, *PROMISE: A Platform for Competition and Education in Cyber Security*
Award No.: 1623628, Amount: $276,424, Program: SFS

2016 **UALR, PI**, *Human-Centric Authentication through Behavioral Biometrics*
Amount: $10,000

2016–2017 **Google, PI**, *Google Cloud Platform Education Credits*
Amount: $9,100

2015–2016 **UAMS, Co-Investigator**, *Exploring the Effects of Sleep Patterns and Physical Activity on Asthma in Adolescents with Wrist-worn Smart Devices*
Amount: $50,000, Program: CTSA Pilot

2015–2018 **Amazon, PI**, *A Cloud-based Platform for Cyber Security Labs*
Amount: $10,700

2014–2017	**NSF, Senior Personnel**, *MRI: Acquisition of Peta-Scale Data Storage System for Big Data Exploration in STEM Fields*
	Award No.: 1429160, Amount: $291,908, Program: MRI
2014–2018	**NSF, PI**, *REU Site: CyberSAFE@UALR: Cyber Security and Forensics Research at University of Arkansas at Little Rock*
	Award No.: 1359323, Amount: $289,659, Program: REU
2013–2014	**DoD, Co-PI**, *Enhancing the Capabilities of UALR and IRMC through a joint Partnership Agreement*
	Amount: $2,467 (and up to $414,563 scholarship fund), Program: Information Assurance Scholarship
2012–2013	**DoD, Co-PI**, *Enhancing the Capabilities of UALR and IRMC through a joint Partnership Agreement*
	Amount: $22,863 (and up to $417,030 scholarship fund), Program: Information Assurance Scholarship
2013–2017	**NSF, Co-PI**, *MRI: Acquisition of a Cloud Computing Infrastructure for Research and Education*
	Award No.: 1338102, Amount: $108,125 plus $46,340 institutional matching ($154,465 in total), Program: MRI
2011–2013	**Amazon, PI**, *Developing a Novel Cloud-based HPC Software Package for Brain Network Analysis*
	Amount: $5,000

NSF: National Science Foundation
NSA: National Security Agency
DoD: Department of Defense
DOE: Department of Energy
SEEDS: Cybersecurity Center for Secure, Evolvable Energy Delivery Systems
TDOT: Tennessee Department of Transportation
UTC: University of Tennessee at Chattanooga
UALR: University of Arkansas at Little Rock
UAMS: University of Arkansas for Medical Sciences

Publications

Note PhD, Master*, Undergraduate◊ student authors under my supervision

Refereed Conference Publications

ICNC23 Yanyan Li, Felix Ferreira, and **Mengjun Xie**, "Flick me once and I know it's you! Flicking-based Implicit Authentication for Smartwatch," in *Proceedings of 2023 International Conference on Computing, Networking and Communications (ICNC): Communications and Information Security Symposium*, pp. 318–323, Honolulu, Hawaii, USA, 2023.

ICDATA22 Hong Qin, Syed Tareq, William Torres, Megan Doman, Cleo Falvey, Jamaree Moore, Meng Tsai, Yingfeng Wang, Azad Hossain, **Mengjun Xie**, and Li Yang, "Cointegration of SARS-CoV-2 Transmission with Weather Conditions and Mobility during the First Year of the COVID-19 Pandemic in the United States," in *Proceedings of the Eighteenth International Conference on Data Science (**ICDATA'22**)*, 4 pages, Las Vegas, NV, USA, 2022.

HUSO22 Megan Doman, Jacob Motley, Hong Qin, **Mengjun Xie**, and Li Yang, "Shifting Trends of COVID-19 Tweet Sentiment with Respect to Voting Preferences in the 2020 Election Year of the United States," in *Proceedings of the Eighth International Conference on Human and Social Analytics (**HUSO'22**)*, 4 pages, Venice, Italy, 2022.

ACMSE22 Daniel Plaisted[*] and **Mengjun Xie**, "DIP: A Log Parser Based on "Disagreement Index Token" Conditions," in *Proceedings of the 2022 ACM Southeast Conference (**ACMSE'22**)*, pp. 113–122, virtual, USA, 2022, DOI: 10.1145/3476883.3520226.

TrustCom21 Ruipeng Zhang, **Mengjun Xie**, and Jiang Bian, "ReLF: Scalable Remote Live Forensics for Android," in *Proceedings of the 20th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (**TrustCom'21**)*, pp. 822–831, Shenyang, China, 2021, DOI: 10.1109/TrustCom53373.2021.00117. (Acceptance rate: 28%) (Source code at https://github.com/nexus-lab?q=relf)

AMIA20 Guo Y, He X (co-first), Lyu T, Zhang H, Wu Y, Yang X, Chen Z, Markham MJ, Modave F, Xie M, Hogan WR, Harle CA, Shenkman EA, and Bian J. "Developing and Validating a Computable Phenotype for the Identification of Transgender and Gender Non-Conforming Individuals and Subgroups," in *Proceedings of AMIA Annual Symposium*, pp. 514–523, PMID: 33936425, PMCID: PMC8075543, 2020.

ICNC20 Chen Xu, Ruipeng Zhang, **Mengjun Xie**, and Li Yang, "Network Intrusion Detection System as a Service in OpenStack Cloud," in *Proceedings of 2020 IEEE International Conference on Computing, Networking and Communications (**ICNC'20**)*, pp. 450–455, Big Island, Hawaii, USA, 2020, DOI: 10.1109/ICNC47757.2020.9049480. (Acceptance rate: 27%)

ICC19 Ruipeng Zhang, **Mengjun Xie**, and Li Yang, "Isoflat: Flat Provider Network Multiplexing and Firewalling in OpenStack Cloud," in *Proceedings of 2019 IEEE International Conference on Communications (**ICC'19**)*, 7 pages, Shanghai, China, 2019, DOI: 10.1109/ICC.2019.8761652.

ASEEMW18 Jing Zhang and **Mengjun Xie**, "New Resources for Undergraduate Power Systems Laboratory," in *Proceedings of 2018 ASEE Midwest Section Conference*, 9 pages, Kansas City, MO, USA, 2018.

SIGITE17 Yanyan Li, Dung Nguyen[*], and **Mengjun Xie**, "EZSetup: A Novel Tool for Cybersecurity Practices Utilizing Cloud Resources," in *Proceedings of the 18th ACM Annual Conference on Information Technology Education (**SIGITE'17**)*, pp. 53–58, Rochester, NY, USA, 2017, DOI: 10.1145/3125659.3125699.

CNS16 Yanyan Li, **Mengjun Xie**, and Jiang Bian, "SegAuth: A Segment-based Approach to Behavioral Biometric Authentication," in *Proceedings of 2016 IEEE Conference on Communications and Network Security (**CNS'16**)*, pp. 15–23, Philadelphia, PA, USA, 2016. (Acceptance rate: 29%)

SIGITE16 Yanyan Li and **Mengjun Xie**, "Platoon: A Virtual Platform for Team-oriented Cybersecurity Training and Exercises," in *Proceedings of the 17th ACM Annual Conference on Information Technology Education (**SIGITE'16**)*, pp. 20–25, Boston, MA, USA, 2016, DOI: 10.1145/2978192.2978230. **(The Platoon platform has been shared with over 20 institutions and professionals in 5 continents)**

ISDFS16 Grady Xiao[◇], Mariofanna Milanova, and **Mengjun Xie**, "Secure Behavioral Biometric Authentication with Leap Motion," in *Proceedings of the 4th IEEE International Symposium on Digital Forensics and Security (**ISDFS'16**)*, pp. 112–118, Little Rock, AR, USA, 2016.

MILCOM15 Yanyan Li, Junshuang Yang[*], **Mengjun Xie**, Dylan Carlson, Han Gil Jang, and Jiang Bian, "Comparison of PIN- and Pattern-based Behavioral Biometric Authentication on Mobile Devices," in *Proceedings of the IEEE Military Communications Conference 2015 (**Milcom'15**)*, pp. 1317–1322, Tampa, Florida, USA, 2015.

AMIA15   Amanda Hicks, William R. Hogan, Michael Rutherford, Bradley Malin, **Mengjun Xie**, Christiane Fellbaum, Zhijun Yin, Daniel Fabbri, Josh Hanna, and Jiang Bian, "Mining Twitter as a First Step toward Assessing the Adequacy of Gender Identification Terms on Intake Forms," in *Proceedings of the American Medical Informatics Association (**AMIA**) 2015 Annual Symposium*, pp. 611–620, San Francisco, CA, USA, 2015.

HASE15-1   **Mengjun Xie**, Yanyan Li, Kenji Yoshigoe, Remzi Seker, and Jiang Bian, "CamAuth: Securing Web Authentication with Camera," in *Proceedings of the 16th IEEE International Symposium on High Assurance Systems Engineering (**HASE'15**)*, pp. 232–239, Daytona Beach, Florida, USA, 2015.

HASE15-2   Jingmin Shi, Chao Peng, Qin Zhu, Pengfei Duan, Yu Bao, and **Mengjun Xie**, "There is a Will, There is a Way: A New Mechanism for Traffic Control based on VTL and VANET," in *Proceedings of the 16th IEEE International Symposium on High Assurance Systems Engineering (**HASE'15**)*, pp. 240–246, Daytona Beach, Florida, USA, 2015.

EMBC14   Yanyan Li, **Mengjun Xie**, and Jiang Bian, "USign–A Security Enhanced Electronic Consent Model," in *Proceedings of the 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (**EMBC'14**)*, pp. 4487–4490, doi: 10.1109/EMBC.2014.6944620, Chicago, IL, USA, 2014.

BDC14   Yue Zhao, Kenji Yoshigoe, **Mengjun Xie**, Suijian Zhou, Remzi Seker, and Jiang Bian, "LightGraph: Lighten Communication in Distributed Graph-Parallel Processing," in *Proceedings of the 3rd IEEE International Congress on Big Data (**BigData Congress'14**, Application and Experience Track)*, pp. 717–724, Anchorage, Alaska, USA, 2014. (Acceptance rate: 35%)

SECCOMM13   **Mengjun Xie**, Liang Hao, Kenji Yoshigoe, and Jiang Bian, "CamTalk: A Bidirectional Light Communications Framework for Secure Communications On Smartphones," in *Proceedings of the 9th International Conference on Security and Privacy in Communication Networks (**SecureComm'13**)*, LNICST 127, pp. 35–52, Sydney, Australia, 2013. (Acceptance rate: 30%)

ISC13   Yue Zhao, Kenji Yoshigoe, and **Mengjun Xie**, "Pre-execution Data Prefetching with Inter-thread I/O Scheduling," in *Proceedings of the 2013 International Supercomputing Conference (**ISC'13**)*, pp. 395–407, Lecture Notes in Computer Science, volume 7905, 2013.

ICNS13   Jiang Bian, Remzi Seker, and **Mengjun Xie**, "A Secure Communication Framework for Large-scale Unmanned Aircraft Systems," in *Proceedings of the 2013 Integrated Communications, Navigation and Surveillance Conference (**ICNS'13**)*, 12 pages, Herndon, VA, USA, 2013.

AMIASTB13   Jiang Bian, **Mengjun Xie**, and Umit Topaloglu, "A Probabilistic Model of Functional Brain Connectivity Network for Discovering Novel Biomarkers," in *Proceedings of the 2013 AMIA Summit on Translational Bioinformatics*, pp. 21–25, PMCID: PMC3814494, San Francisco, CA, USA, 2013.

INFOCOM12   **Mengjun Xie**, Indra Widjaja, and Haining Wang, "Enhancing Cache Robustness for Content-Centric Networking," in *Proceedings of the 31th IEEE Conference on Computer Communications (**INFOCOM'12**)*, pp. 2426–2434, Orlando, FL, USA, 2012. (Acceptance rate: 18%)

SE12   Douglas Serfass and **Mengjun Xie**, "Secure Intelligence Gathering Using Smartphones," in *Proceedings of the 2012 IEEE SoutheastCon*, 6 pages, Orlando, FL, USA, 2012.

SMC11   Jiang Bian, Josh M. Cisler, **Mengjun Xie**, George A. James, Remzi Seker, and Clinton D. Kilts, "A Methodology for Empirical Analysis of Brain Connectivity through Graph Mining," in *Proceedings of the 2011 IEEE International Conference on Systems, Man, and Cybernetics (SMC'11) - Cybernetics Track*, pp. 2963–2969, Anchorage, AL, USA, 2011.

CCS10   Zhenyu Wu, Steven Gianvecchio, **Mengjun Xie**, and Haining Wang, "Mimimorphism: A New Approach to Binary Code Obfuscation," in *Proceedings of the 17th ACM Conference on Computer and Communications Security (CCS'10)*, pp. 536–546, Chicago, IL, USA, 2010. (Acceptance rate: 17.2%)

INFOCOM10   **Mengjun Xie** and Haining Wang, "A Collaboration-based Autonomous Reputation System for Email Services," in *Proceedings of the 29th IEEE Conference on Computer Communications (INFOCOM'10)*, San Diego, CA, USA, 2010. (Acceptance rate: 17.5%)

CCS09   Steven Gianvecchio, Zhenyu Wu, **Mengjun Xie**, and Haining Wang, "Battle of Botcraft: Fighting Bots in Online Games with Human Observational Proofs," in *Proceedings of the 16th ACM Conference on Computer and Communications Security (CCS'09)*, pp. 256–268, Chicago, IL, USA, 2009. (Acceptance rate: 18.4%)

SECURITY08   Steven Gianvecchio, **Mengjun Xie**, Zhenyu Wu, and Haining Wang, "Measurement and Classification of Humans and Bots in Internet Chat," in *Proceedings of the 17th USENIX Security Symposium (Security'08)*, pp. 155–169, San Jose, CA, USA, 2008. (Acceptance rate: 15.9%)

NSDI08   Zhenyu Wu, **Mengjun Xie**, and Haining Wang, "Swift: A Fast Dynamic Packet Filter," in *Proceedings of the 5th USENIX Symposium on Networked Systems Design and Implementation (NSDI'08)*, pp. 279–292, San Francisco, CA, USA, 2008. (Acceptance rate: 17.7%)

ACSAC07   **Mengjun Xie**, Zhenyu Wu, and Haining Wang, "HoneyIM: Fast Detection and Suppression of Instant Messaging Malware in Enterprise-like Networks," in *Proceedings of the 23rd Annual Computer Security Applications Conference (ACSAC'07)*, pp. 64–73, Miami Beach, FL, USA, 2007. (Acceptance rate: 22%)

DSN07   Chuan Yue, **Mengjun Xie**, and Haining Wang, "Automatic Cookie Usage Setting with CookiePicker," in *Proceedings of the 37th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN'07)*, pp. 460–470, Edinburgh, UK, 2007.

CCS06   **Mengjun Xie**, Heng Yin, and Haining Wang, "An Effective Defense Against Email Spam Laundering," in *Proceedings of the 13th ACM Conference on Computer and Communications Security (CCS'06)*, pp. 179–190, Alexandria, VA, USA, 2006. (Acceptance rate: 14.8%)

QEST06   **Mengjun Xie**, Keywan Tabatabai, and Haining Wang, "Identifying Low-Profile Web Server's IP Fingerprint," in *Proceedings of the 3rd International Conference on the Quantitative Evaluation of Systems (QEST'06)*, pp. 365–374, Riverside, California, USA, 2006.

Refereed Journal Publications

SENSOR22   Ruipeng Zhang, Chen Xu, and **Mengjun Xie**, "Secure Decentralized IoT Service Platform using Consortium Blockchain," in *Sensors*, volume 22, no. 21, article no. 8186, 2022 (online), DOI: 10.3390/s22218186.

JSC18   Yue Zhao, Kenji Yoshigoe, **Mengjun Xie**, Jiang Bian, and Ke Xiong, "L-PowerGraph: a lightweight distributed graph-parallel communication mechanism," in *The Journal of Supercomputing*, volume 76, issue 3, pp. 1850–1879, 2018 (online), DOI: 10.1007/s11227-018-2359-9.

MHEALTH17 Jiang Bian, Yi Guo, **Mengjun Xie**, Alice Parish, Isaac Wardlaw, Rita Brown, François Modave, Dong Zheng, and Tamara Perry, "Exploring the association between self-reported asthma impact and Fitbit-derived sleep quality and physical activity measures in adolescents," in *JMIR mHealth and uHealth*, volume 5, number 7, pp. e105 (11 pages), doi: 10.2196/mhealth.7346, PMID: 28743679, PMCID: 5548986, 2017.

TBDATA16 Yue Zhao, Kenji Yoshigoe, Jiang Bian, **Mengjun Xie**, Zhe Xue, and Yong Feng, "A Distributed Graph-Parallel Computing System with Lightweight Communication Overhead," in *IEEE Transactions on Big Data*, volume 2, issue 3, pp. 204–218. doi: 10.1109/TBDATA.2016.2532907, 2016.

PONE16 Jiang Bian, Kenji Yoshigoe, Amanda Hicks, Jiawei Yuan, Zhe He, **Mengjun Xie**, Yi Guo, Mattia Prosperi, Ramzi Salloum, and François Modave, "Mining Twitter to Assess the Public Perception of the "Internet of Things"," in *PLoS ONE*, volume 11, issue 7, e0158450 (14 pages), doi:10.1371/journal.pone.0158450, 2016.

JOACE16 Qin Zhu, Chao Peng, Jingmin Shi, Pengfei Duan, Yu Bao, and **Mengjun Xie**, "Cooperative Traffic Light Control Based on Semi-real-time Processing," in *Journal of Automation and Control Engineering*, volume 4, issue 1, pp. 40–46, doi: 10.12720/joace.4.1.40-46, 2016.

PONE14 Jiang Bian, **Mengjun Xie**, Teresa J. Hudson, Hari Eswaran, Mathias Brochhausen, Josh Hanna, and William R. Hogan, "CollaborationViz: Interactive visual exploration of biomedical research collaboration networks," in *PLoS ONE*, volume 9, issue 11, e111928 (8 pages), doi: 10.1371/journal.pone.0111928, 2014.

JCSM14 Yue Zhao, Kenji Yoshigoe, **Mengjun Xie**, Sujian Zhou, Remzi Seker, and Jiang Bian, "Evaluation and Analysis of Distributed Graph-Parallel Processing Frameworks," in *Journal of Cyber Security and Mobility*, volume 3, issue 3, pp. 289–316. doi: 10.13052/jcsm2245-1439.333, 2014.

JAMIA14 Jiang Bian, **Mengjun Xie**, William Hogan, Laura Huchins, Umit Topaloglu, Cheryl Lane, Jennifer Holland, and Thomas Wells, "CLARA: An Integrated Clinical Research Administration System," in *Journal of the American Medical Informatics Association (**JAMIA**)*, volume 21, issue e2, pp. e369–373, doi:10.1136/amiajnl-2013-002616, PMID: 24778201, 2014.

JBI14 Jiang Bian, **Mengjun Xie**, Umit Topaloglu, Teresa Hudson, Hari Eswaran, and William Hogan, "Social Network Analysis of Biomedical Research Collaboration Networks in a CTSA Institution," in *Journal of Biomedical Informatics (**JBI**)*, doi: 10.1016/j.jbi.2014.01.015, PMID: 24560679, February, 2014.

JSC13 Yue Zhao, Kenji Yoshigoe, and **Mengjun Xie**, "Pre-execution Data Prefetching with I/O Scheduling," in *The Journal of Supercomputing*, Springer, pp. 1–20, December, 2013.

TDSC12 Zhenyu Wu, **Mengjun Xie**, and Haining Wang, "On Energy Security of Server Systems," in *IEEE Transactions on Dependable and Secure Computing (**TDSC**)*, volume 9, issue 6, pp. 865–876, 2012.

COMNET12 **Mengjun Xie**, Zhenyu Wu, and Haining Wang, "Secure Instant Messaging in Enterprise-like Networks," in *International Journal of Computer and Telecommunications Networking (**Computer Networks**)*, volume 56, issue 1, pp. 448–461, 2012.

TON11-1 Steven Gianvecchio, **Mengjun Xie**, Zhenyu Wu, and Haining Wang, "Humans and Bots in Internet Chat: Measurement, Analysis, and Automated Classification," in *IEEE/ACM Transactions on Networking (**TON**)*, volume 19, issue 5, pp. 1557–1571, 2011.

TON11-2   Zhenyu Wu, **Mengjun Xie**, and Haining Wang, "Design and Implementation of a Fast Dynamic Packet Filter," in *IEEE/ACM Transactions on Networking (**TON**)*, volume 19, issue 5, pp. 1405–1419, 2011.

COMNET10   Chuan Yue, **Mengjun Xie**, and Haining Wang, "An Automatic HTTP Cookie Management System," in *International Journal of Computer and Telecommunications Networking (**Computer Networks**)*, volume 54, issue 13, article 7, pp. 2182–2198, 2010.

TISSEC08   **Mengjun Xie**, Heng Yin, and Haining Wang, "Thwarting E-mail Spam Laundering," in *ACM Transactions on Information and System Security (**TISSEC**)*, volume 12, issue 2, article 13, pp. 1–32, 2008. This is the extended version of CCS'06 paper invited for publication in ACM TISSEC.

Refereed Workshop Publications

MOBISEC18   Yanyan Li and **Mengjun Xie**, "Understanding Secure and Usable Gestures for Realtime Motion based Authentication," in *Proceedings of the IEEE INFOCOM 2018 Workshop on the Security, Privacy, and Digital Forensics of Mobile Systems and Networks (MobiSec 2018)*, pp. 13–20, Honolulu, Hi, USA, 2018.

CCN15   Samiuddin Mohammed[*] and **Mengjun Xie**, "A Measurement Study on Media Streaming over Wi-Fi in Named Data Networking," in *Proceedings of the IEEE MASS 2015 Workshop on Content Centric Networking*, pp. 543–548, Dallas, TX, USA, 2015.

WRIST15   Junshuang Yang[*], Yanyan Li, and **Mengjun Xie**, "MotionAuth: Motion-based Authentication for Wrist Worn Smart Devices," in *Proceedings of 2015 IEEE International Conference on Pervasive Computing and Communication Workshops (PerCom Workshops)*, pp. 550–555, St. Louis, MO, USA, 2015, DOI: 10.1109/PERCOMW.2015.7134097.

BHI13   **Mengjun Xie**, Umit Topaloglu, Thomas Powell, Chao Peng, and Jiang Bian, "SIM: A Smartphone-based Identity Management Framework and Its application to Arkansas Trauma Image Repository," in *Proceedings of the 2013 International Workshop on Biomedical and Health Informatics*, pp. 53–60, Shanghai, China, 2013.

NETHI13   Jiang Bian, **Mengjun Xie**, Umit Topaloglu, Teresa Hudson, and William Hogan, "Understanding Biomedical Research Collaborations through Social Network Analysis: A Case Study," in *International Symposium on Network Analysis and Mining for Health Informatics, Biomedicine and Bioinformatics*, pp. 9–16, Shanghai, China, 2013.

WOOT11   Zhenyu Wu, **Mengjun Xie**, and Haining Wang, "Energy Attack on Server Systems," in *Proceedings of the 5th USENIX Workshop on Offensive Technologies (**WOOT'11**)*, pp. 62–70, San Francisco, CA, USA, 2011.

Refereed Posters/Abstracts/Demos

IoTDI23   Ruipeng Zhang and **Mengjun Xie**, "A Knowledge Graph Question Answering Approach to IoT Forensics," in *Proceedings of the 8th ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI '23)*, pp. 446-447, DOI: 10.1145/3576842.3589161. Presented at IoTDI '23, San Antonio, TX, USA, 2023.

DLG22   Lucas Payne[*] and **Mengjun Xie**, "Anomaly Detection in Log Files Using Graph Neural Networks," presented at *The Eighth International Workshop on Deep Learning on Graphs (DLG-KDD'22)*, Washington DC, USA, 2022.

CAE22   Ruipeng Zhang, **Mengjun Xie**, and Jiang Bian, "ReLF: Scalable Remote Live Forensics for Android," presented at *2022 CAE in Cybersecurity Community Symposium*, Atlanta, GA, USA, 2022.

MERIT19-1   Ruipeng Zhang, Chen Xu, and **Mengjun Xie**, "Powering Hands-on Cybersecurity Practices with Cloud Computing," presented at *Midscale Education and Research Infrastructure and Tools (**MERIT**) Workshop*, in *Proceedings of IEEE 27th International Conference on Network Protocols (**ICNP'19**)*, Chicago, IL, USA, 2019.

MERIT19-2   Chen Xu, Ruipeng Zhang, **Mengjun Xie**, and Li Yang, "Network Intrusion Detection System as a Service on OpenStack Cloud," presented at *Midscale Education and Research Infrastructure and Tools (**MERIT**) Workshop*, in *Proceedings of IEEE 27th International Conference on Network Protocols (**ICNP'19**)*, Chicago, IL, USA, 2019.

CISSE17   Yanyan Li and **Mengjun Xie**, "A Novel Tool for Cybersecurity Practices Utilizing Cloud Resources," presented at *The 21st Colloquium for Information Systems Security Education (**CISSE'17**)*, Las Vegas, NV, USA, 2017.

CNS16-1   Jonathan Ming[◇] and **Mengjun Xie**, "Remote Live Forensics for Android Devices," presented at *2016 IEEE Conference on Communications and Network Security (**CNS'16**)*, in *Proceedings of CNS'16*, pp. 437–438, Philadelphia, PA, USA, 2016.

CNS16-2   Diana Anguiano[◇], Ghouri Mohammad Saaduddin[*], Yanyan Li, and **Mengjun Xie**, "Comparison between Fingerprint and Behavioral Biometric Authentication using 2D and 3D Gestures," presented at *2016 IEEE Conference on Communications and Network Security (**CNS'16**)*, in *Proceedings of CNS'16*, pp. 435–436, Philadelphia, PA, USA, 2016.

CNS16-3   Antwane Lewis[◇], Yanyan Li, and **Mengjun Xie**, "Real Time Motion-Based Authentication for Smartwatch," presented at *2016 IEEE Conference on Communications and Network Security (**CNS'16**)*, in *Proceedings of CNS'16*, pp.478–479, Philadelphia, PA, USA, 2016. **(Best Poster Award)**

HOTMOBI15   Junshuang Yang[*], Yanyan Li, and **Mengjun Xie**, "Motion-based Authentication for Wrist Worn Smart Devices," presented at *The 16th International Workshop on Mobile Computing Systems and Applications (**HotMobile'15**)*, Santa Fe, NM, USA, 2015.

REU14   Han Gil Jang[◇], Dylan Carlson[◇], and **Mengjun Xie**, "Enhancing Mobile Device Authentication with Behavioral Biometrics," presented at *The 4th Research Experiences for Undergraduates Symposium*, Arlington, VA, USA, 2014.

GHC14   Han Gil Jang[◇], Dylan Carlson[◇], and **Mengjun Xie**, "Enhancing Mobile Device Authentication with Behavioral Biometrics," presented at *Grace Hopper Conference REU Site Poster Session*, Phoenix, AZ, USA, 2014.

VAHC13   Jiang Bian, **Mengjun Xie**, Umit Topaloglu, Teresa Hudson, and William Hogan, "Interactive Visualization for Understanding and Analyzing Biomedical Research Collaboration Networks – a Pilot Study," presented at *The 2013 Workshop on Visual Analytics in Healthcare*, Washington, DC, USA, 2013.

AMIASTB13   **Mengjun Xie**, Jiang Bian, and Umit Topaloglu, "Topic Modeling for Discovering Drug-related Adverse Events from Social Media," presented at *The 2013 AMIA Summit on Translational Bioinformatics*, San Francisco, CA, USA, 2013.

Software Products

Platoon	Platoon is an application for team-based cybersecurity training and exercises. Its source code is available upon request.
EZSetup	EZSetup is an open-source Web application for cloud-based cybersecurity lab creation and management. Its source code is available at https://github.com/nexus-lab/
ReLF	ReLF is an open-source tool for Android remote live forensics. Its source code is available at https://github.com/nexus-lab/
HTS@TN	HTS@TN is a mobile app for household travel survey. The HTS@TN mobile app is available on both iOS and Android and can be downloaded from Apple App Store and Google Play. The development of HTS@TN is sponsored by TDOT.
Self-Check	Self-Check is an application developed for COVID-19 reporting for UTC employees (faculty and staff). Self-Check was used by UTC employees to conduct COVID-19 reporting from June 2020 to May 2021.

Teaching Experience

University of Tennessee at Chattanooga

2018–Present **Associate Professor and Professor**

Undergraduate Courses (Not including Research/Thesis)
- CPSC 4620 Computer Network Security
  - Spring 2019, Spring 2021, Spring 2022, Spring 2023
- CPSC 4900 Software Engineering
  - Fall 2019, Fall 2020, Fall 2022, Fall 2023
- CPSC 4910 Senior Capstone Project
  - Spring 2020, Spring 2021
- CPSC 3200 Algorithm Analysis and Advanced Data Structures
  - Fall 2021, Fall 2022, Fall 2023
- CPSC 1110 Data Structures and Program Design
  - Fall 2019, Spring 2020, Fall 2020

Graduate Courses (Not including Research/Thesis/Dissertation)
- CPSC 7610 Information Security Theory and Practice (New)
  - Fall 2018
- CPSC 5620 Computer Network Security
  - Spring 2019, Spring 2022, Spring 2023
- CPSC 5800 Advanced Topics in Systems Software
  - Spring 2022
- CPSC 5900 Graduate Project
  - Fall 2019, Fall 2020, Spring 2021
- CPSC 5920r Graduate Internship in Computer Science
  - Summer 2022

University of Arkansas at Little Rock

2010–2018 **Assistant Professor and Associate Professor**

Undergraduate (and dual-listed) Courses (Not including Research/Thesis)
- CPSC 4360/5360 Computer Security: Fall 2010, Spring 2012, Spring 2013, Spring 2014, Spring 2016, Spring 2018
- CPSC 4367/5367 Mobile Application Development (New): Fall 2011, Fall 2012, Spring 2014, Fall 2015, Fall 2016, Fall 2017
- CPSC 4399/5399 Special Topic–Mobile Forensics (New): Spring 2016
- CPSC 2380 Data Structures and Algorithms (Core): Spring 2011, Spring 2013, Spring 2015, Spring 2017

Graduate Courses (Not including Research/Thesis/Dissertation)
- CPSC 7385 Analysis of Algorithms (Core): Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017
- CPSC 7341 Telecommunications and Networking (Core): Spring 2015, Spring 2017, Spring 2018
- CPSC 7325 Software Security Assessment (New): Spring 2012, Fall 2013
- CPSC 7399 Special Topic–Advanced Network Security (New): Spring 2011, Fall 2014
- CPSC 7300 Independent Study: Advanced Networking and Security: Fall 2017

The College of William and Mary

2010 **Adjunct Assistant Professor**
- CSCI 243 Discrete Structures of Computer Science: Spring 2010

2003–2004 **Teaching Assistant**
- Undergraduate courses: Data Structures, Algorithms, Artificial Intelligence

East China Normal University

2000–2001 **Teaching Assistant**
- Undergraduate course: Artificial Intelligence

Mentoring and Advising

Ph.D. Dissertation

In Progress **Chen Xu**, *University of Tennessee at Chattanooga*
- Best Overall Design Award (Computer Science and Engineering), *UTC Technology Symposium*, 2022
- Student Travel Award, *The 27th IEEE International Conference on Network Protocols*, 2019
- Student Travel Award, *NSF Midscale Education and Research Infrastructure and Tools Community Event Workshop*, 2019
- The $2nd$ Place in Technology, Annual Student Research and Creative Works Showcase, *University of Arkansas at Little Rock*, 2018
- Student Travel Award, *10th IEEE/ACM International Conference on Utility and Cloud Computing*, 2017

2023 **Ruipeng Zhang**, *University of Tennessee at Chattanooga*
- **Dissertation title: Advancing IoT Security through Blockchain-based Decentralized Platform and AI-Powered Digital Forensics**
- First employment: Research Scientist, Meta
- Current employment: Research Scientist, Meta
- Interned at Meta (2022) and Visa (2021)
- Outstanding Ph.D. Student Award (Computational Science: Computer Science), *UTC Graduate School*, 2022
- The $3rd$ Place in Graduate Research, *UTC Technology Symposium*, 2022
- Student Travel Award, *The 27th IEEE International Conference on Network Protocols*, 2019
- Student Travel Award, *NSF Midscale Education and Research Infrastructure and Tools Community Event Workshop*, 2019
- Student Travel Award, *GENI Regional Workshop and Summer Camp (Lexington, KY)*, 2018
- The $3rd$ Place in Applied Innovation, Annual EIT College Open House, *University of Arkansas at Little Rock*, 2018
- Student Travel Award, *The 10th IEEE/ACM International Conference on Utility and Cloud Computing*, 2017

2018 **Yanyan Li**, *University of Arkansas at Little Rock*
- **Dissertation title: Authenticating Smart Device Users with Behavioral Biometrics**
- First employment: Tenure-track Assistant Professor, California State University San Marcos
- Current employment: Tenure-track Assistant Professor, California State University San Marcos
- Outstanding Ph.D. Degree Graduate Award, *College of Engineering & Information Technology*, 2018
- Outstanding Research Award, *Computer Science Department*, 2018
- University Website's Cover Story, *University of Arkansas at Little Rock*, 2018
- Outstanding Ph.D. Student Award, *Computer Science Department*, 2017
- Best Poster Award, *IEEE Conference on Communications and Network Security*, 2016
- Outstanding Ph.D. Student Award, *Computer and Information Sciences Ph.D. Program*, 2016
- Outstanding First-year Ph.D. Student Award, *Computer Science Department & Computer and Information Sciences Ph.D. Program*, 2014

Note: Computer & Information Sciences Ph.D. Program was renamed as Integrated Computing Ph.D. Program

M.S. Thesis/Project

In Progress **Heston FriedLand**, *University of Tennessee at Chattanooga*
- Thesis title: TBD

2023 **Lucas Payne**, *University of Tennessee at Chattanooga*
- Thesis title: Anomaly Detection in Log Files Using Knowledge Graph and Graph Neural Networks
- Admitted into UTC Computational Science PhD program

2022 **Kristian Karl**, *University of Tennessee at Chattanooga*
- Project title: Deepfake Detection with RNN
- First employment: Raytheon Missiles & Defense

2022 **Hunter Harris**, *University of Tennessee at Chattanooga*
- Project title: An Automated User Interaction Logger for Sectry

2021 **Walker Wilson**, *University of Tennessee at Chattanooga*
- Project title: Automated Image Manipulation Detection
- First employment: Advanced Computing Center for Research and Education, Vanderbilt University

2020 **Alexander Smith**, *University of Tennessee at Chattanooga*
- Project title: Application of Deep Learning to System Logs Analysis
- First employment: National Security Agency

2019 **Julimar Alvarado**, *University of Tennessee at Chattanooga*
- Project title: Cybersecurity Assessments on SCADA Systems
- First employment: Mesa Associates
- Current employment: Mesa Associates

2019 **Eisa Mohamed**, *University of Tennessee at Chattanooga*
- Project title: Using Joern to Analyze Static C/C++ Code
- First employment: University of Tennessee at Chattanooga
- Current employment: University of Tennessee at Chattanooga

2018 **Dung Nguyen**, *University of Arkansas at Little Rock*
- Thesis title: Lambda Edge: A Lambda Computing Framework for Edge Computing
- First employment: Amazon Web Services
- Current employment: Amazon Web Services

2017 **Mukti Barole Shobha Sangappa**, *University of Arkansas at Little Rock*
- Project title: Extracting Blog Insights Using Big Data Analytics
- Acxiom Diversity Scholarship, *Acxiom*, 2017
- First employment: Nokia
- Current employment: Nokia

2017 **Chen Xu**, *University of Arkansas at Little Rock*
- Project title: Traffic Monitoring and Intrusion Detection in OpenStack Cloud
- Outstanding Master Student Award, *Computer Science Department*, 2018
- Continued his research as a Ph.D. student

2017 **Ghouri Mohammad Saaduddin**, *University of Arkansas at Little Rock*
- Project title: Remote Live Data Acquisition and Analysis for Mobile Platforms
- Outstanding Master Student Award, *College of Engineering & Information Technology*, 2017
- Outstanding Master Student Award, *Computer Science Department*, 2017
- First employment: Larsen & Toubro Infotech
- Current employment: Egen Solutions

2015 **Junshuang Yang**, *University of Arkansas at Little Rock*
- Thesis title: Motion-based Authentication for Wrist Worn Smart Devices
- Outstanding Master Student Award, *College of Engineering & Information Technology*, 2015
- Outstanding Master Student Award, *Computer Science Department*, 2015
- First employment: FDA National Center for Toxicological Research (NCTR)
- Current employment: FDA

2015 **Samiuddin Mohammed**, *University of Arkansas at Little Rock*
- Thesis title: Study of Bandwidth and CPU Utilization of Video Streaming in Named Data Network over Wi-Fi Direct
- First employment: FedEx
- Current employment: Epsilon

2013 **Xiao Liu**, *University of Arkansas at Little Rock*
- Project title: Design and Implementation of a Signature Verification Application for Smartphones
- First employment: Samsung USA
- Current employment: Google

MS Research

- Kristian Karl (UTC), 2022
  Participated in NSA funded research
- Hunter Harris (UTC), 2022
  Participated in NSA funded research

- Suhail Arora (UTC), 2022
  Participated in NSF funded research
- Hannah Phillips (UTC), 2022
  Participated in TDOT funded research
- Lucas Payne (UTC), 2021-Present
  Participated in NSA funded research and produced a first-authored paper published in DLG-KDD 2022
- Heston Friedland (UTC), 2021-Present
  Participated in NSA and TDOT funded research
- Daniel Plaisted (UTC), 2021-2022
  Participated in NSA funded research and produced a first-authored paper published in ACMSE 2022
- Alexander McCormack (UTC), 2021
  Participated in NSA funded research
- Walker Wilson (UTC), 2021
  Participated in NSF funded research
- Alexander Smith (UTC), 2019-2020
  Participated in NSA funded research

Undergraduate Research

- Francisco Ayala (UTC), 2022-Present
  Participated in NSA funded research
- Jacob McClain (UTC), 2021-2023
  Participated in NSA funded research
- Jacob Hays (UTC), 2021-2022
  Participated in NSA funded research
- Robert Hall (UTC), 2021-2022
  Participated in TDOT and NSA funded research
- Trayton Berry (UTC), 2021-2022
  Participated in TDOT funded research
- Austin Elder (UTC), 2021-2022
  Participated in NSA funded research
- Gabriel Edwards (UTC), 2021
  Participated in NSA funded research
- Matthew O'Neil (UTC), 2021
  Participated in NSA funded research
- Mckenzie Mack (UTC), 2021
  Participated in NSA funded research and GenCyber Student Summer Camp
- Kirsten Hanson (UTC), 2021
  Participated in NSA funded research and GenCyber Student Summer Camp
- Abiezer De Jesus (UTC), 2021
  Participated in NSA funded research
- Zachary Bianucci (UTC), 2021
  Participated in NSA funded research
- Allyson Adam (UTC), 2020-2021
  Participated in NSA funded research and GenCyber Student Summer Camp
- Jesús Patino (UTC), 2020-2021
  Participated in NSA funded research
- Megan Doman (UTC), 2020-2021
  Participated in NSF and NSA funded research
- Logan Crockett (UTC), 2020-2021
  Participated in NSA funded research

- Ashley Moyers (UTC), 2020-2021
  Participated in NSA funded research
- Sean Roche (UTC), 2020
  Participated in NSF and NSA funded research
- Arial Cofer (UTC), 2020
  Participated in NSA funded research
- Jonathan Gautreaux (UTC), 2019-2020
  Participated in NSA funded research
- Cleo Falvey (University of Massachusetts Boston), NSF REU Program, 2020
  Now a PhD student in Rutgers University
- Diana Anguiano (California State University, San Marcos), NSF REU Program, 2016
  Published a first-authored extended abstract in IEEE CNS 2016
- Antwane Lewis (Philander Smith College), NSF REU Program, 2016
  Published a first-authored extended abstract in IEEE CNS 2016 and won the Best Poster Award
- Jonathan Ming (Azusa Pacific University), NSF REU Program, 2016
  Published a first-authored extended abstract in IEEE CNS 2016
- Joshua Stucky (Union University), NSF REU Program, 2015
- Grady Xiao (Wake Forest University), NSF REU Program, 2015
  Published a first-authored paper in 2016 IEEE International Symposium on Digital Forensics and Security
- Qing Zhong (University of Arizona), NSF REU Program), 2015
- Jie Li (UA Little Rock), 2015
  Outstanding Sophomore Award, *Computer Science Department*, 2015
- Dylan Carlson (Lake Superior State University), NSF REU Program, 2014
  Published a co-authored paper in MILCOM 2015
- Han Gil Jang (Washington and Lee University), NSF REU Program, 2014
  Published a co-authored paper in MILCOM 2015 and received 2014 Grace Hopper Conference Travel Scholarship
- Jermaine Marshall (UA Little Rock), UA Little Rock EIT Summer Undergraduate Program of Entrepreneurship and Research, 2013
- Mathew Epperson (UA Little Rock), 2011
  Undergraduate Research Excellence Award, *Computer Science Department*, 2011

K-12 Research

- Aryan Damani (Pulaski Academy), UA Little Rock EIT High School Research Program, 2017
- Nikoo Karbassi (Little Rock Central High School), UA Little Rock EIT High School Research Program, 2016
- Pooja Modi (Hot Springs High School), UA Little Rock EIT High School Research Program, 2015
- Jacob Shiohira (Bentonville High School), UA Little Rock EIT High School Research Program, 2014
- Hayden Aud (Maumelle High School), UA Little Rock EIT High School Research Program, 2013

Ph.D. Dissertation Committee

- David Schwab (Chair: Dr. Li Yang), UTC, 2023
- Chang Phuong (Chair: Dr. Li Yang), UTC, 2022
- He Zhang (Chair: Dr. Xian Liu), UA Little Rock, 2018

- Serpil Tokdemir Yuce (Chair: Dr. Nitin Agarwal), UA Little Rock, 2015
- Maitham Hammood (Chair: Dr. Kenji Yoshigoe), UA Little Rock, 2015
- Lu Shi (Chair: Dr. Shucheng Yu), UA Little Rock, 2015
- Jiawei Yuan (Chair: Dr. Shucheng Yu), UA Little Rock, 2015
- Yue Zhao (Chair: Dr. Kenji Yoshigoe), UA Little Rock, 2015
- Jiang Bian (Chair: Dr. Remzi Seker), UA Little Rock, 2010

M.S. Thesis/Project Committee

- Milan Artis (Chair: Dr. Hong Qin), UTC, In Process
- Sean Orme (Chair: Dr. Peiyi Tang), UA Little Rock, 2018
- Lakshmi Kavya Annapureddy (Chair: Dr. Mariofanna Milanova), UA Little Rock, 2017
- Jyothsna Lankireddy (Chair: Dr. Mariofanna Milanova), UA Little Rock, 2017
- Yasaman Emami (Chair: Dr. Coskun Bayrak), UA Little Rock, 2016
- Md. Abu Al Jinnah (Chair: Dr. Shucheng Yu), UA Little Rock, 2016
- Ryan Moulliet (Chair: Dr. Peiyi Tang), UA Little Rock, 2015
- Ali Al-Uraiby (Chair: Dr. Kenji Yoshigoe), UA Little Rock, 2013
- Ryan Hayward (Chair: Dr. Chia-Chu Chiang), UA Little Rock, 2013
- Douglas Serfass (Chair: Dr. Peiyi Tang), UA Little Rock, 2012
- Montadar Al-Muhana (Chair: Dr. Keith Bush), UA Little Rock, 2012
- Gowtham Mareedu (Chair: Dr. Mariofanna Milanova), UA Little Rock, 2011

Undergraduate Honors Thesis Committee

- Chase Carroll (Chair: David Schwab), UTC, 2020

Academic Services

Advising @University of Tennessee at Chattanooga

2018–Present **Adviser/Coach**, *MocSec Cyber Defense*

Advising and coaching MocSec Cyber Defense student organization to participate in various cybersecurity competitions. Some highlights:

- Collegiate Cyber Defense Competition (CCDC)
  - **UTC team won 2nd place in 2021 Southeast CCDC, in addition to Best in Defense and Best in Service awards**
  - **UTC team won 7th place in 2019 Southeast CCDC, passing regional qualifier for the first time**
- Department of Energy CyberForce Competition
  - **UTC team competed in 2021 Fall CyberForce (virtual). Overall ranking 21st out of 120, ranking 1st in three categories: C-Suite Panel, Service Scans, and Green Team Surveys.**
  - UTC team competed in 2020-2022 Fall CyberForce (virtual)
  - UTC team competed in 2019 Fall CyberForce at Oak Ridge National Lab
  - UTC team competed in 2018 Fall CyberForce at Oak Ridge National Lab

2018–Present **Graduate Faculty (Full Membership)**, *UTC Graduate School*
- Advising two full-time PhD students
- Recruited one current MS student into UTC Computational Science PhD program
- Assisted in recruiting one majority student into UTC Computational Science PhD program
- Advising four full-time MS students
- Graduated four MS students (including one Minority student and one female Hispanic student)

Advising @University of Arkansas at Little Rock

2017–2018 **Program Coordinator**, *Master of Science in Computer Science Program*

2017–2018 **Track Coordinator**, *Computer and Information Sciences Ph.D. Program, Computer Science Track*

2014–2018 **Project Lead**, *NSF REU Site CyberSAFE@UALR*
- 11 refereed publications were produced from this site.
- Best Poster Award at 2016 IEEE Conference on Communications and Network Security
- Participants awarded multiple conference travel grants (e.g., from NSF, US Navy)

2013–2018 **Founder & Adviser**, *Cyber Security Club (CSC) & CCDC team*
- UA Little Rock CCDC team won 4th place (out of 8 teams) in 2017 Southwest CCDC
- UA Little Rock CCDC team won 3rd place (out of 8 teams) in 2016 Southwest CCDC
- UA Little Rock CSC won 2015 Special Recognition Award from Computer Science Department
- UA Little Rock CCDC team won 2nd place (out of 5 teams, 1st in service uptime part) in the invitational cyber-defense competition held at the 6th CANSEC workshop, 2014

2016–2018 **Adviser**, *ACM Club & ACM UA Little Rock Chapter*

2013–2016 **Adviser**, *Chinese Students and Scholars Association*

2012–2018 **Campus Representative**, *USENIX*

2011–2018 **Member**, *Computer and Information Sciences Ph.D. Program*

2011–2018 **Member**, *Engineering Science and Systems Ph.D. Program*

Other Services @University of Tennessee at Chattanooga

2023–Present **Director**, *InfoSec Center*, UTC

InfoSec Center is a NSA/DHS designated National Center of Academic Excellence in Cyber Defense (CAE-CD).
- UTC CAE Point of Contact (POC)

2018–2023 **Co-Director/Acting Director (since 2019)**, *InfoSec Center*, UTC

InfoSec Center is a NSA/DHS designated National Center of Academic Excellence in Cyber Defense (CAE-CD).
- UTC CAE Point of Contact (POC)
- Leading UTC CAE-CD Redesignation: UTC PoS Validation application approved in Nov. 2022 and CAE Designation application approved in May 2023, 2022-2023
- Initiated and completed UTC's certification as a member institution of National CyberWatch Center, 2022
- Initiated and completed UTC's certification as an authorized EC-Council Academia Partner, 2022
- Initiated and completed UTC's certification as a Red Hat Academy, 2020
- Initiated and completed UTC's certification as a Palo Alto Networks Cybersecurity Academy, 2018

2022–Present **Member**, *Quantum Initiative*, UTC

2022–2024 **Member**, *Faculty Awards Committee*, UTC

2022 **Member**, *NAE Grand Challenges Scholars Program Task Force*, UTC

2021–2023 **Member**, *Commission on the Status of Women*, UTC

2020–2024	**Member**, *Faculty Senate*, UTC
2019–2020	**Member**, *Faculty Grants Committee*, UTC
2023–2025	**Member**, *Outreach and Research Committee*, College of Engineering and Computer Science
2023	**Member**, *Department Head Search Committees*, College of Engineering and Computer Science
2022–2023	**Member**, *Ad-Hoc Teaching & Learning Strategic Plan Committee*, College of Engineering and Computer Science
2021–2023	**Member**, *Undergraduate Curriculum Committee*, College of Engineering and Computer Science
2020	**Member**, *BAS Program Proposal Committee*, College of Engineering and Computer Science Assisted Dean in development of Bachelor of Applied Science (BAS) - Information Technology in Cybersecurity program
2019–2022	**Member**, *Technology Symposium Planning Committee*, College of Engineering and Computer Science
2022–2023	**Chair**, *Faculty Search Committee*, Department of Computer Science and Engineering Chaired two faculty search committees for tenure-track assistant professor of cyber security positions
2021–Present	**Member**, *Faculty Reappointment, Tenure and Promotion Committee*, Department of Computer Science and Engineering
2021–Present	**Member**, *Faculty Search Committees*, Department of Computer Science and Engineering
2021	**Coordinator**, *Department Video Creation*, Department of Computer Science and Engineering
2018–2019	**Member**, *Curriculum Committee*, Department of Computer Science and Engineering
2018–2019	**Member**, *ABET Assessment Committee*, Department of Computer Science and Engineering

Other Services @University of Arkansas at Little Rock

2017–2018	**Director**, *NSA/DHS Designated National Center of Academic Excellence in Cyber Defense (CAE-CD)*
2017–2018	**Director**, *Computational Research Center*
2016–2018	**Member**, *University Graduate Council*
2016–2018	**Member**, *University System Incident Response Team*
2016–2018	**Member**, *Faculty Search Committee, Computer Science Department*
2012–2014	**Member**, *University Academic Calendar and Schedules Committee*
2012–2013	**Member**, *Award Committee, College of Engineering and Information Technology*
2010–2017	**Member**, *NSA/DHS Designated National Center of Academic Excellence in Cyber Defense (CAE-CD)*

Professional Activities

Grant Proposal Reviewer

2022	NSF Ad-hoc Reviewer, NSF SFS Panel
2020	NSF SaTC Panel
2018	NSF SaTC Panel, NSF CPS Panel
2017	NSF SaTC Panel

2015 NSF REU Panel

2014 NSF SaTC Panel

External Review for Tenure and Promotion

2022 Johns Hopkins University

2022 Kennesaw State University

2017 University of Central Arkansas

Organizing Committee

2023 2023 IEEE International Symposium on Digital Forensics and Security (2 days), Chattanooga, TN, Term Chair

2022 NSF Sponsored Privacy Technologies Education Workshop 2022 (2 days), Virtual, Co-Chair

2022 NSA Sponsored Summer Workshop on Cybersecurity Capture-The-Flag Games (2 days), Virtual, Chair

2021 NSA Sponsored Summer Workshop on Cybersecurity Labs & CTF (5 days), Virtual, Chair

2021 NSA Sponsored Summer Workshop on Cybersecurity Faculty Development (3 days), Virtual, Chair

2021 UTC GenCyber Summer Student Camp (5 days), Chattanooga, TN, Program Director

2019 UTC GenCyber Summer Teacher Camp (5 days), Chattanooga, TN, Lead Instructor

2015 The 8th Central Area Networking and Security Workshop (2 days), Little Rock, AR, Chair

2013 The 1st Workshop on Mobile Cloud Computing in Healthcare (WMCCH), Vice Chair

Session Chair

2019 IEEE ICC, CISS-6: Authentication 2

2019 IEEE ICC, CISS-8: Intrusion Detection

2016 IEEE ISDFS, Plenary Session 1

2012 IEEE INFOCOM, TS13: Cognitive radio and software defined radio 3

Technical Program Committee

2024 IEEE International Conference on Communications (ICC)

2023 International Conference on Edge Computing (EDGE)

2023 IEEE International Conference on Intelligence and Security Informatics (ISI)

2023 IEEE International Conference on Communications (ICC)

2022 IEEE International Conference on Information Reuse and Integration for Data Science (IRI)

2022 The 53rd ACM Technical Symposium on Computer Science Education (SIGCSE)

2022 IEEE International Conference on Communications (ICC)

2021 The National Workshop for REU Research in Networking and Systems (REUNS)

2021 IEEE International Conference on Information Reuse and Integration for Data Science (IRI)

2021 International Conference on Edge Computing (EDGE)

2021 International Conference on Digital Forensics and Cyber Security (ICDF2C)

2021 IEEE International Conference on Distributed Computing Systems (ICDCS)

2021 The 52nd ACM Technical Symposium on Computer Science Education (SIGCSE)

2021   IEEE International Conference on Communications (ICC)

2021   EAI International Conference on Multimedia Technology and Enhanced Learning (ICMTEL)

2020   International Workshop on Advances in Artificial Intelligence for Blockchain (AIChain)

2020   IEEE International Conference on Information Reuse and Integration for Data Science (IRI)

2020   Annual Consortium for Computing Sciences in Colleges Southeastern Conference (CCSC:SE)

2020   IEEE International Conference on Blockchain (Blockchain)

2020   International Conference on Security and Privacy in Digital Economy (SPDE)

2020   International Conference on Security and Privacy in Communication Networks (SecureComm)

2020   International Conference on Digital Forensics and Cyber Security (ICDF2C)

2020   International Conference on Edge Computing (EDGE)

2020   IEEE International Conference on Communications (ICC)

2019   The National Workshop for REU Research in Networking and Systems (REUNS)

2019   International Conference on Edge Computing (EDGE)

2019   IEEE International Conference on Blockchain (Blockchain)

2019   International Conference on Security and Privacy in Communication Networks (SecureComm)

2019   IEEE International Conference on Communications (ICC)

2018   International Conference on E-health Networking, Application & Services (HealthCom)

2018   International Conference on Mobile Systems and Pervasive Computing (MobiSPC)

2018   IEEE International Conference on Communications (ICC)

2017   International Conference on Security and Privacy in Communication Networks (SecureComm)

2017   International Conference on E-health Networking, Application & Services (HealthCom)

2017   The National Workshop for REU Research in Networking and Systems (REUNS)

2017   IEEE International Conference on Communications (ICC)

2016   International Conference on Security and Privacy in Communication Networks (SecureComm)

2016   International Conference on Parallel and Distributed Systems (ICPADS)

2016   International Conference on Mobile Systems and Pervasive Computing (MobiSPC)

2016   The National Workshop for REU Research in Networking and Systems (REUNS)

2016   IEEE International Conference on Communications (ICC)

2015   International Conference on Security and Privacy in Communication Networks (SecureComm)

2015   International Conference on E-health Networking, Application & Services (HealthCom)

2015   IEEE Global Communications Conference (GLOBECOM)

2015   International Conference on Body Area Networks (BODYNETS)

2015   International Conference on Systems and Networks Communications (ICSNC)

2015   IEEE Conference on Communications and Network Security (CNS)

2015   IEEE International Conference on Networking, Architecture, and Storage (NAS)

2015   IEEE International Symposium on High Assurance Systems Engineering (HASE)

2015   International Symposium on Future Information and Communication Technologies for Ubiquitous HealthCare (Ubi-HealthTech)

2015   The National Workshop for REU Research in Networking and Systems (REUNS)

2015	IEEE International Conference on Communications (ICC)
2014	International Conference on Security and Privacy in Communication Networks (SecureComm)
2014	International Conference on Mobile Systems and Pervasive Computing (MobiSPC)
2014	IEEE Global Communications Conference (GLOBECOM)
2014	International Conference on Body Area Networks (BODYNETS)
2014	International Conference on Systems and Networks Communications (ICSNC)
2014	IEEE International Conference on Networking, Architecture, and Storage (NAS)
2014	International Symposium on Cyberspace Safety and Security (CSS)
2014	IEEE Consumer Communications and Networking Conference (CCNC)
2014	International Conference on Connected Vehicles and Expo (ICCVE)
2014	The National Workshop for REU Research in Networking and Systems (REUNS)
2014	The Workshop on Big Data Analytics in Healthcare (BigDAH)
2014	IEEE International Conference on Communications (ICC)
2013	International Conference on Security and Privacy in Communication Networks (SecureComm)
2013	IEEE Global Communications Conference (GLOBECOM)
2013	International Conference on Body Area Networks (BODYNETS)
2013	International Conference on Systems and Networks Communications (ICSNC)
2013	IEEE International Conference on Networking, Architecture, and Storage (NAS)
2013	International Conference on Connected Vehicles and Expo (ICCVE)
2013	IEEE International Conference on Communications (ICC)
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2012	IEEE International Conference on Communications (ICC)
2012	IEEE International Conference on Networking, Architecture, and Storage (NAS)
2011	International Conference on Security and Privacy in Communication Networks (SecureComm)
2011	IEEE Global Communications Conference (GLOBECOM)
2011	IEEE International Conference on Networking, Architecture, and Storage (NAS)
2010	IEEE International Conference on Networking, Architecture, and Storage (NAS)

Journal Editorship

2015–Present	International Journal of Security and Networks (IJSN) | Editorial Board
2015–2018	Wiley's Security and Communication Networks (SCN) | Editorial Board
2020	Cybersecurity Skills Journal: Practice and Research | Program Committee (Special Issue on NICE Cybersecurity Workforce Framework)
2015	Journal of Cyber Security and Mobility | Guest Editor (Special Issue on Big Data Theory and Practice)

Journal Reviewer

- ACM Transactions on Cyber-Physical Systems (TCPS)
- EAI Endorsed Transactions on Security and Safety
- IEEE/ACM Transactions on Networking (ToN)

- IEEE Access
- IEEE Internet of Things Journal
- IEEE Journal on Selected Areas in Communications (JSAC)
- IEEE Pervasive Computing
- IEEE Transactions on Cloud Computing (TCC)
- IEEE Transactions on Computational Social Systems (TCSS)
- IEEE Transactions on Dependable and Secure Computing (TDSC)
- IEEE Transactions on Emerging Telecommunications Technologies (ETT)
- IEEE Transactions on Information Forensics and Security (TIFS)
- IEEE Transactions on Mobile Computing (TMC)
- IEEE Transactions on Parallel and Distributed Systems (TPDS)
- International Journal of Computer and Telecommunications Networking (Computer Networks), Elsevier
- International Journal of Security and Networks (IJSN), Inderscience
- Journal of Parallel and Distributed Computing (JPDC), Elsevier
- KSII Transactions on Internet and Information Systems
- Security and Communication Networks, Wiley
- Sensors, MDPI

Conference Reviewer

- American Medical Informatics Association (AMIA) Annual Symposium
- International Conference on Connected Vehicles and Expo (ICCVE)
- IEEE Symposium on Security and Privacy (Oakland)
- IEEE Conference on Computer Communications (INFOCOM)
- IEEE International Conference on Distributed Computing Systems (ICDCS)
- IEEE Frontiers in Education Conference (FIE)
- Intl. Conf. on Security and Privacy in Communication Networks (SecureComm)
- International Conference on Information and Communications Security (ICICS)
- IEEE International Workshop on Quality of Service (IWQoS)
- International Workshop on Security in Distributed Computing Systems (SDCS)

Presentations and Panels

2023 Presentation on "CAE-CD at the University of Tennessee at Chattanooga," CAE-CD Community of Practice (CoP)–Meet Your Fellow CAEs (Virtual)

2022 Presentation on "Scalable Remote Live Forensics for Android," 2022 CAE Tech Talk (Virtual)

2022 Presentation on "A Final Stop of the CWCT Journey: Training Participant Job Placement with Certifications," 2022 CAE in Cybersecurity Community Symposium (Atlanta, GA)

2021 Invited presentation on "Activity-Based Household Travel Survey through Smartphone Apps in Tennessee," 2021 Tennessee Model Users Group Meeting (Mount Juliet, TN)

2021 Panelist on "CWCT - Cybersecurity Workforce Development - Opportunity Meets the Need," 2021 UNC Charlotte Cybersecurity Symposium (Virtual)

2018 Presentation on "Understanding Secure and Usable Gestures for Realtime Motion based Authentication," IEEE INFOCOM Workshops (Honolulu, HI)

2018 Invited presentation on "Mobile Authentication with Behavioral Biometrics," Pace University (New York City, NY)

2018 Invited presentation on "Mobile Authentication with Behavioral Biometrics," University of Maine (Orono, ME)

2018 Invited presentation on "Mobile Authentication with Behavioral Biometrics," University of Tennessee at Chattanooga (Chattanooga, TN)

2018 Invited presentation on "A Novel Tool for Cybersecurity Practices Utilizing Cloud Resources," University of Central Arkansas (Conway, AR)

2017 Invited presentation on "A Virtual Platform for Team-oriented Cybersecurity Training and Exercises," University of Arkansas at Little Rock (Little Rock, AR)

2016 Presentation on "Cyber Security Education and Practices at University of Arkansas at Little Rock," The 3rd Arkansas Computer Science Education Leadership Summit 3.0 (Russellville, AR)

2016 Panelist on "Cyber Security Education: A Higher Education Perspective," IEEE International Symposium on Digital Forensics and Security (Little Rock, AR)

2016 Presentation on "Secure Behavioral Biometric Authentication with Leap Motion," IEEE International Symposium on Digital Forensics and Security (Little Rock, AR)

2016 Invited presentation on "Behavioral Biometric Authentication on Mobile Devices," Philander Smith College (Little Rock, AR)

2012 Invited presentation on "Enhancing Cache Robustness for Content-Centric Networking," University of Arkansas at Little Rock (Little Rock, AR)

2012 Presentation on "Enhancing Cache Robustness for Content-Centric Networking," IEEE INFOCOM (Orlando, FL)

2011 Invited presentation on "Energy Attack on Server Systems," East China Normal University (Shanghai, China)

2011 Invited presentation on "Energy Attack on Server Systems," University of Central Arkansas (Conway, AR)

2011 Invited presentation on "Towards Secure Message Systems," University of Arkansas at Little Rock (Little Rock, AR)

Professional Development Training

7/2023 NSF SaTC Workshop on Machine Learning for Cybersecurity (ML4CS), organized by Tuskegee University and Kennesaw State University, 1 day (7/14), Marietta, GA

6/2023 NSF SaTC EDU Workshop on IoT Security Hands-on Labs, organized by University of Massachusetts Lowell and University of Central Florida, 2 days (6/29–6/30), Orlando, FL

6/2023 NCAE-C Faculty Development Workshop: Offensive Security, organized by Dakota State University, 2 days (6/27–6/28), Baltimore, MD

1/2023 NSF Center for Quantum Networks Winter School on Quantum Networks (5 days), Virtual

5/2022 NCAE-C Faculty Development Workshop: Using Docker (2 days), organized by Dakota State University, St. Paul, MN

4/2022 Hands-on Workshop on Networking Topics (2 days), organized by New York State Education and Research Network, Engagement and Performance Operations Center, and University of South Carolina, Virtual

4/2022 NSF Workshop on Secure Mobile Software Development (1 day), organized by Tuskegee University, Kennesaw State University, and Worcester Polytechnic Institute, Virtual

3/2022 NSF Training Workshop: CHEESEHub Workshop on Cybersecurity Education (half day), Virtual

1/2022 NVIDIA Deep Learning Institute Training Workshop: Fundamentals of Deep Learning (1 day), Virtual

9/2021 SANS Training Workshop: Blue Team Summit (2 days), Virtual

6/2021 SANS Training Workshop: CloudSecNext Summit (2 days), Virtual

5/2021 NSF Training Workshop: Secure Mobile Software Development Workshop (1 day), Virtual

5/2021 NSF Training Workshop: Guided Inquiry Collaborative Learning in Cybersecurity (3 days), Virtual

3/2021 TACC Training Workshop: Introduction to Deep Learning at TACC (1 day), Virtual

1/2021 UTC Grant Writing Workshop: Write Winning Grant Proposals (2 days), Virtual

7/2020 NSF Training Workshop: CSinParallel Summer 2020 Virtual Workshop (2.5 days), Virtual

7/2020 NSF Training Workshop: Developing Empirical Education Research Studies in CS (DEERS) (4 days), Virtual

6/2020 NSF Training Workshop: Virtual Residency Intermediate/Advanced Workshop (5 days), Virtual

6/2020 UTC Teaching and Learning Workshop: Designing Online Labs (One month), Virtual

8/2019 Palo Alto Networks Cybersecurity Online Faculty Training: Cybersecurity Information Configuration (CIC) Course (3 days), Virtual

8/2019 NCAE-C Faculty Development Workshop: SCADA/ICS Security (2 days), organized by Dakota State University, Las Vegas, NV

7/2019 NSF Training Workshop: Electronic Health Record Analysis in R (2 days), Chattanooga, TN

7/2019 NSF Training Workshop: Using EDURange for Cybersecurity Exercises (2 days), Virtual

7/2019 NSF Training Workshop for Network Engineers and Educators on Tools and Protocols for High-Speed Networks (2 days), Columbia, SC

3/2019 NSF CyberAmbassadors Workshop: Communication, Teamwork, and Leadership Training for Multidisciplinary Research Teams (1 day), Chattanooga, TN

11/2018 Quality Matters Training: Applying the QM Rubric (2 weeks), Virtual

9/2018 NIH Grant Writing Workshop: Write Winning NIH Grant Proposals (1 day), Chattanooga, TN

6/2016 NSF Training Workshop on SEED Labs (4 days), Syracuse, NY

8/2015 UCLA-NIH mHealth Summer Training Institute (5 days), Los Angeles, CA

12/2013 Paraben Mobile Forensics Level 1 Training (4 days), Ashburn, VA

8/2012 SANS SCADA Security Training (5 days), Huston, TX

6/2012 X-Ways Forensics Training (5 days), Corona, CA

Membership

Lifetime Member	Association for Computing Machinery (ACM)
Member	ACM Special Interest Group on Security, Audit and Control (SIGSAC)
Member	ACM Special Interest Group on Mobility of Systems, Users, Data, and Computing (SIGMOBILE)
Member	ACM Special Interest Group on Computer Science Education (SIGCSE)
Member	ACM Special Interest Group on Information Technology Education (SIGITE)
Senior Member	Institute of Electrical and Electronic Engineers (IEEE)
Member	The Advanced Computing Systems Association (USENIX)

Public Services

12/6/2021 **Hour of Code**, *Speaker*, Chattanooga State Community College, Virtual
Presented cybersecurity fundamentals and career opportunities.

10/20/2021 **Introduction to Cybersecurity Workshop**, *Organizer and Speaker*, University of Tennessee at Chattanooga, Chattanooga, TN, USA
Organized a workshop on cybersecurity basics and career opportunities for UTC students and local community.

5/2020– 5/2021 **UTC Employee COVID-19 Self-Check Application**, *Project Supervisor*, University of Tennessee at Chattanooga, Chattanooga, TN, USA
Supervised the development and maintenance of a Web application for COVID-19 self check, which was used by all UTC faculty and staff between June 2020 and May 2021.

12/14/2020 **Hour of Code**, *Speaker*, Chattanooga State Community College, Virtual
Presented career paths and opportunities in cybersecurity and my research on cybersecurity.

9/17/2019 **Cyber Seniors: Computer Skills Workshop**, *Speaker*, Chattanooga State Community College, Chattanooga, TN, USA
Introduced secure web browsing and privacy protection to senior people.

In Media

7/31/2023 "UTC among seven U.S. universities to receive renewed NSF funding for cybersecurity workforce development projects," *UTC News*

6/8/2022 "TDOT partners with UTC to make more informed decisions on transportation," *WRCB TV (Local 3 News)*

12/22/2021 "At UTC, Training For Cybersecurity Workforce Professionals," *WUTC*

11/30/2021 "UTC announces new Cybersecurity Workforce Certificate Training Program," *WDEF*

11/30/2021 "UTC introduces nationwide program to train cybersecurity professionals," *UTC News*

7/5/2021 "A Cybersecurity Summer Camp For Students At UTC," *WUTC*

6/9/2021 "Experts share tips to help protect yourself from cyber attacks," *WRCB TV (Local 3 News)*

5/17/2017 "Arkansas college educators want greater engagement in cybersecurity," *Talk Business & Politics*

6/8/2016 "UALR Professor Says ISIS Hack May Not Have Been As Hard As It Seems," *KARK 4*

2/19/2016 "Encrypted Cell Phones Hamper Local Law Enforcement," *KARK 4*

2/6/2015 "Using Public Wi-Fi Could Make You Vulnerable To Identity Theft," *KATV 7*

4/9/2014 "Heartbleed Security Bug Leaves Consumers Vulnerable," *KTHV 11*

2/12/2014 "UALR Awarded Cyber Security Grant," *Arkansas News*