

Bilal Gonen

Assistant Professor, School of Information Technology, University of Cincinnati
bilal.gonen@uc.edu , <https://bilalgonen.com>

EDUCATION

- Ph.D. in Computer Science and Engineering, University of Nevada, Reno, NV, USA (August 2011)
- M.S. in Computer Science, University of Georgia, Athens, GA, USA (August 2006)
- B.E. in Computer Engineering, Sakarya University, Sakarya, Turkey (September 2002)

APPOINTMENTS

8/2016 - present	Assistant Professor, School of Information Technology, University of Cincinnati
8/2012 - 5/2016	Assistant Professor, Computer Science, University of West Florida
8/2011 - 6/2012	Term Assistant Professor, Computer Science, University of Alaska Anchorage
7/2009 - 6/2011	Research Assistant, Biology Department, University of Nevada, Reno
8/2006 - 5/2009	Teaching Assistant, Computer Science, University of Nevada, Reno Teaching C++ programming, and grading weekly projects.
1/2006 - 8/2006	Research Assistant, Computer Science, University of Georgia, GA, USA
1/2004 - 5/2005	Teaching Assistant, Computer Science, University of Georgia, GA, USA

TEACHING EXPERIENCE

- As Assistant Professor
 - IT Infrastructure Sustainability (2016 - 2020).
Topics: Virtualization (VirtualBox, VMware, Hyper-V), Cloud (AWS, Azure, Google Cloud).
 - Advanced Storage Technologies (2017 - 2020).
 - Advanced Systems Administration (2017 - 2020).
 - IT Research Methods (2016 - 2018)
 - System Admin Basics (2020)
 - Teaching Prep System Admin (2020)
 - Scripting for Network (2017, 2020)
 - Application Programming (2017)
 - Azure Fundamentals Bootcamp - a 4-week camp (2020)
 - Computer Networks (2011 - 2014)
 - Algorithms and Data Structures (2011 - 2013). [My videos on youtube](#)
 - Algorithm and Programming Design in C (Spring 2016). [My videos on youtube](#)
 - Java Programming (2011 - 2016) [My videos on youtube](#)
 - Intermediate Programming in Java (Spring 2013, Fall 2015). [My videos on youtube](#)
 - Advanced Computer Programming in Java (Fall 2014, Spring 2015). [My videos on youtube](#)
 - Complex Networks (Spring 2012)
- As Teaching Assistant: C++, Database Systems, Data Structures, Algorithms, Internet Programming

RESEARCH INTERESTS

Blockchain, Cybersecurity, Digital forensics in social networks, Big Data, Data Science, Complex Networks, Social Network Analysis, Semantic Web, Machine Learning, Artificial Intelligence, Computer Networks, Underwater Acoustic Sensor Networks, Software Engineering, Algorithms, Bioinformatics.

PUBLICATIONS

Book Chapter

- [1] Wilde N., Gonen B., El-Sheikh E., Zimmermann A. (2016) Approaches to the Evolution of SOA Systems. Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures. Part of the Intelligent Systems Reference Library book series (ISRL, volume 111). Springer, Cham. Publisher: Springer-Verlag, Germany. [[link1](#)],[[link2](#)].

Journal Articles

- [1] Hari Priya Ponnakanti, Bilal Gonen. Relative Importance of Blockchain in Cryptocurrency, Banking & Health Care. Archives of Business Research. [accepted. currently copyediting] [[link1](#)],[[link2](#)]
- [2] Zekeriya Y Karatas, Erkam Luy, Bilal Gonen, Said Varlioglu. Public Key Cryptosystem based on Lower Triangular Matrices. The Ohio Journal of Science. Published on April 2020.
- [3] Bilal Gonen and Hari Priya Ponnakanti. Applications of Blockchain Technology in Cryptocurrency, Banking & Healthcare. The Ohio Journal of Science. Published on April 2020.
- [4] Bilal Gonen, Victor Adewopo. Identifying Transaction Patterns on Illegal Darknet Markets. The Ohio Journal of Science. Published on April 2020.
- [5] Serhat Simsek, Onur Genc, Abdullah Albizri, Semih Dinc, and Bilal Gonen. Artificial Neural Network Incorporated Decision Support Tool for Point Velocity Prediction. Journal of Business Analytics. [Accepted 1-April-2020]
- [6] Mustafa Solmaz, Adam Lane, Bilal Gonen, Ogulsheker Akmamedova, Mehmet H. Gunes, and Kakajan Komurov. "Graphical data mining of cancer mechanisms with SEMA." Bioinformatics (May 9, 2019). [[PDF](#)]
- [7] Zekeriya Y Karatas, Erkam Luy and Bilal Gonen. Public Key Cryptosystem based on Matrices. International Journal of Computer Applications 182(42):47-50, February 2019. doi: 10.5120/ijca2019918432 [[PDF](#)]
- [8] Bharamagoudra, Manjula R., SunilKumar S. Manvi, and Bilal Gonen. "Event driven energy depth and channel aware routing for underwater acoustic sensor networks: Agent oriented clustering based approach.", Computers & Electrical Engineering, Vol 58, p.1-19. Elsevier. February 2017. [[web](#)]
- [9] Z.Y. Karatas, E. Aygun, E. Luy, H. Ergin and B. Gonen, Novel Cryptosystems Based on Two Different Mod Values, Alabama Journal of Mathematics, Vol 41, No 1 (2017). [[web](#)][[PDF](#)]
- [10] Karabiyik, U., Canbaz, M.A., Aksoy, A., Tuna, T., Akbas, E., Gonen, B., and Aygun, R., "A Survey of Social Network Forensics", Journal of Digital Forensics, Security and Law , 11.4 (2016): 8. [[web](#)] [[PDF](#)].
- [11] Tuna, T., Akbas, E., Aksoy, A., Canbaz, M.A., Karabiyik, U., Gonen, B., and Aygun, R., "User characterization for online social networks", Social Network Analysis and Mining, 6(1):104, 2016. [[PDF-arxiv](#)], [[Springer](#)]
- [12] Reichherzer, T., Coffey, J., Gonen, B., Gillett, I. (2015). Knowledge Modeling in the Health Care Domain: Capturing Semantics to Bridge the Gap between Complex Data Models and Object Models, In Model-Driven Engineering and Software Development, Springer Verlag. ISBN 978-3-319-27869-8. [[web](#)]
- [13] Onur Genc, Bilal Gonen, and Mehmet Ardiclioglu. A Comparative Evaluation Of Shear Stress Modeling Based On Machine Learning Methods In Small Streams. Journal of Hydroinformatics, vol.1, pp.1-23, 2015. [[web](#)]
- [14] Bilal Gonen, Gurhan Gunduz, Murat Yuksel, Automated network management and configuration using Probabilistic Trans-Algorithmic Search, Computer Networks, Elsevier, Vol 76, January 2015, [[doi](#)], [[link](#)], [[PDF](#)].
- [15] Bilal Gonen, Xingang Fang, Eman El-Sheikh, Sikha Bagui, Norman Wilde and Alfred Zimmermann; Ontological Support for the Evolution of Future Services Oriented Architectures. Transactions on Machine Learning and Artificial Intelligence. Volume 2 No 6 Dec, (2014);pp: 77-90. [[web](#)],[[doi](#)],[[PDF](#)]

- [16] Gregory Vert, Bilal Gonen, Jayson Brown. A Theoretical Model for Detection of Advanced Persistent Threat in Networks and Systems Using a Finite Angular State Velocity Machine (FAST-VM). *International Journal of Computer Science and Application*, 2014, 3(2), 63-73. doi: 10.14355/ijcsa.2014.0302.01. [[PDF](#)]

Conference and Workshop Papers

- [1] Murat Ozer, Said Varlioglu, Bilal Gonen, Victor Adewopo, Nelly Elsayed, Selcuk Zengin. Cloud Incident Response: Challenges and Opportunities. The 2020 International Conference on Computational Science and Computational Intelligence. December 16, 2020.
- [2] Victor Adewopo, Bilal Gonen, Festus Adewopo. Exploring Open Source Information for Cyber Threat Intelligence. The 4th International Workshop on Big Data Analytic for Cyber Crime Investigation and Prevention, IEEE International Conference on Big Data 2020. December 10, 2020.
- [3] Nitin Mathur, Chengcheng Li, Bilal Gonen, Ki Jung Lee. Application of Autoencoder Duets in Anomaly and Intrusion Detection. IT Research Symposium '20: School of Information Technology, University of Cincinnati. April 14, 2020.
- [4] Hari Priya Ponnakanti, Murat Ozer, Bilal Gonen. Relative Importance of Blockchain in Health Care: Enhancing data sharing and mitigating cyber security crimes. IT Research Symposium '20: School of Information Technology, University of Cincinnati. April 14, 2020.
- [5] Victor Adewopo, Bilal Gonen. Scraping The Deep Web : A 3-Dimensional Framework For Cyber-Threat Intelligence. IT Research Symposium '20: School of Information Technology, University of Cincinnati. April 14, 2020.
- [6] Bilal Gonen, and Dipali Sawant. Significance of Agile software development and SQA powered by automation. 2020 The 3rd International Conference on Information and Computer Technologies. International Technological University, USA, in Silicon Valley, San Jose. Mar 9-12, 2020.
- [7] Sriveni Namani, and Bilal Gonen. Smart Agriculture based on IoT and Cloud Computing. 2020 The 3rd International Conference on Information and Computer Technologies. International Technological University, USA, in Silicon Valley, San Jose. Mar 9-12, 2020.
- [8] Said Varlioglu, Bilal Gonen, Murat Ozer, Mehmet F. Bastug. Is Cryptojacking Dead after Coinhive Shutdown? 2020 The 3rd International Conference on Information and Computer Technologies. International Technological University, USA, in Silicon Valley, San Jose. Mar 9-12, 2020.
- [9] Himanshu Ajmera, and Bilal Gonen. Virtual Reality in Health Care. 2020 IEEE International Conference on Computing, Networking and Communications (ICNC 2020). Big Island, Hawaii, USA. February 17-20, 2020.
- [10] Tek Dhital, and Bilal Gonen. A Survey on Web Security Issues. The 2019 International Conference on Computational Science and Computational Intelligence. Las Vegas, NV, USA. December 5-7, 2019.
- [11] Victor Adewopo, Bilal Gonen, Said Varlioglu, Murat Ozer. Plunge into the Underworld: A survey on Emergence of Darknet. The 2019 International Conference on Computational Science and Computational Intelligence. Las Vegas, NV, USA. December 5-7, 2019.
- [12] Murat Ozer, Said Varlioglu, Bilal Gonen, and Mehmet F. Bastug. A Prevention and a Traction System for Ransomware Attacks. The 2019 International Conference on Computational Science and Computational Intelligence. Las Vegas, NV, USA. December 5-7, 2019.
- [13] Gregory Vert, Bryce Barrette, and Bilal Gonen. Towards a Mathematical Model for Autonomously Organizing Security Metric Ontologies. The 2016 International Conference on Security and Management (SAM'16), Las Vegas, USA, July 25-28, 2016. [[web-1](#)] [[web-2](#)]
- [14] Gonen, Bilal, Kemal Akkaya, and Fatih Senel. "Efficient camera selection for maximized target coverage in underwater acoustic sensor networks." IEEE 40th Conference on Local Computer Networks (LCN). 2015. [[conference](#)] [[PDF](#)].
- [15] Thomas Reichherzer, John Coffey, Bilal Gonen and Irad Gillett, Knowledge Modeling in the Health Care Domain to Support Software Development & Maintenance, International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2015, Loire Valley, France, 9 February, 2015.
- [16] Bilal Gonen, Xingang Fang, Eman El-Sheikh, Sikha Bagui, Norman Wilde, Alfred Zimmermann and Ilia Petrov, Maintaining SOA Systems of the Future: How can Ontological Modeling Help?, KEOD, 6th International Conference on Knowledge Engineering and Ontology Development. Rome, Italy, Oct 21-24, 2014.

- [17] Alfred Zimmermann, Bilal Gonen, Rainer Schmidt, Eman El-Sheikh, Sikha Bagui, and Norman Wilde, Adaptable Enterprise Architectures for Software Evolution of SmartLife Ecosystems, Enterprise Distributed Object Computing Conference Workshops and Demonstrations (EDOCW), 2014 IEEE 18th International, Ulm, Germany, September 1-5, 2014 [[PDF](#)]
- [18] B. Gonen, M. Yuksel, and S. Louis, Probabilistic Trans-Algorithmic Search for Automated Network Management and Configuration, Proceedings of IEEE GLOBECOM Workshop on Management of Emerging Networks and Services (MENS), pp. 490-495, Miami, FL, December 2010. [[ieeexplore](#)], [[PDF](#)]
- [19] B. Gonen, M. Yuksel, Network Configuration and Management via Two-Phase Online Optimization, Proceedings of IEEE GLOBECOM, Houston, TX, December 2011. [[webpage](#)], [[ieeexplore](#)],[[PDF](#)]
- [20] B. Gonen, G. Hoelzer, Simulation of Spatial Self-Organization in a Stepping Stone Environment, International Conference on Modeling, Simulation and Visualization Methods, Las Vegas, Nevada, USA, July 2011.[[PDF](#)]
- [21] B. Gonen, Genetic Algorithm Finding the Shortest Path in Networks, The 2011 International Conference on Genetic and Evolutionary Methods, Las Vegas, Nevada, USA, July 2011. [[PDF](#)]
- [22] B. Gonen, Semantic Browser, International Conference on Semantic Web, Las Vegas, July 2011. [[PDF](#)]
- [23] B. Gonen, S. Tartir, R. Pavagada, Annotation of Hyperlinks with Semantic Meaning, 2011 International Conference on Semantic Web and Web Services, Las Vegas, Nevada, USA, July 2011. [[PDF](#)]
- [24] Brendan Babb and Bilal Gonen, Lowering Six Degrees of Kevin Bacon by Genetic Algorithm, 2013 IEEE 2nd International Workshop on Network Science, West Point, NY, USA, April 2013. [[ieeexplore](#)]
- [25] Matt Grimm and Bilal Gonen, Improving Music Artist Recommendations Through Analysis of Influences, 2013 IEEE 2nd International Workshop on Network Science, West Point, NY, USA, April 2013. [[ieeexplore](#)]
- [26] Bilal Gonen, Xingang Fang, Eman El-Sheikh, Sikha Bagui, Norman Wilde, Semantic Traversing Documents by Using Semantic Relationships, Workshop on Grand Challenges in Engineering and Applied Sciences, Princeton University, Princeton, NJ, May 15-18, 2014. [[PPT](#)],[[PDF](#)]

GRANTS

- **\$5,000.** Training Credits from Google For Education. By allocating these credits to my students, I assign hands-on projects on Google Cloud's reliable infrastructure.
- **\$100,000.** I worked on a \$100K grant proposal with Dr. Komurov. Dr. Komurov is an assistant professor in Cincinnati Children's Hospital Medical Center. The \$100K was awarded. This is a project of Center for Pediatrics Genomics. The project was funded by Cincinnati Children's Hospital Medical Center. I worked on this project for 1 year (from 6/1/2016 to 5/31/2017). My roles were "Research Scientist" for 3 months, and "Collaborator" for 9 months.
- **\$24,982.** Role: co-PI. Grant name: Semantic Data Modeling for System & Data Comprehension. Type: Competitive External Grant. This project was funded through the Security and Software Engineering Research Center (S2ERC). The received funds supported new research based on the continuation of previous work with Blue-Cross Blue-Shield Association. The new work focuses on the development of knowledge models that capture semantic information of a healthcare domain in a format that is easy to understand by software developers.
- **\$15,000.** Seed grant by University of West Florida.
- **\$1,619.** Travel grant from College of Science and Engineering at the University of West Florida.
- **\$2,250.** Travel grant from College of Arts and Sciences at the University of West Florida.
- **\$1,650.** Travel grant from University of Alaska for IEEE GLOBECOM 2011.
- **\$800.** Education Grants, Amazon Web Services for my Complex Networks course.

CERTIFICATES & AWARDS

- Two Microsoft Azure Certificates: Azure Fundamentals (az-900) and Azure Data Fundamentals (dp-900)

- I was selected as AWS Educate Faculty Cloud Ambassador. The AWS Educate Faculty Ambassadors cohort contains 235 members from over 47 countries and more than 180 higher education and K12 institutions. Ambassadors share their knowledge and experience in teaching cloud computing with other educators at their institution, in their community, and around the world. I am the only ambassador from University of Cincinnati in 2020 cohort.
- I received one of "Outstanding Achievement Awards" at the 2019 International Conference on Computational Science and Computational Intelligence (Las Vegas, Nevada, USA). The American Council on Science and Education Committee selected 28 authors, papers, and speakers (out of 340) to receive the CSCI award. [Dec 5, 2019]
- I received "The Golden Apple Award For Excellence in Teaching and Student-Faculty Relations" in 2017 and 2019. The Golden Apple Award is a student-voted honor in our college awarded each year to faculty members, from each academic program, who demonstrate excellence in teaching and student-faculty relations. (2017 and 2019)
- I am a certified Quality Matters Master Reviewer. Quality Matters (QM) is a leader in quality assurance for online education. Master Reviewer (MR) forms a review team; coordinate the review team's efforts before, during, and after the review; implements the QM course review process; provides guidance to the review team throughout the review and ensures effective recommendations are provided; Ensure that recommendations are constructive, specific, measurable, sensitive and balanced. Coach the review team members as needed. The MR represents QM's principles and policies on the review and, as QM's primary point of contact. [[webpage](#)] [[certificate](#)]
- Quality Online Instructor Certificate. I took two online training courses offered by UWF Academic Technology Center. The course names are "Designing a Quality Online and Blended Course" and "Teaching a Quality Online Course". Upon completion of these 6-week courses successfully, I received "Quality Online Instructor Certificate".
- Certificate of Quality Matters peer reviewer. I took two online training courses offered by UWF Academic Technology Center. The course names are "Independent Applying the QM Rubric course" and "Quality Matters Peer Reviewer Course". Upon completion of these 2-week courses successfully, I became a certified Quality Matters peer reviewer. Quality Matters (QM) is a leader in quality assurance for online education.
- My online course, Java Programming, was awarded Quality Matters certification. I submitted the course for internal review in my university. A team of three reviewers reviewed the course. The course has passed the internal review. Then, we submitted it for the official QM review. An external team of three reviewers reviewed the course. My course has received a full score (99 out of 99) and has met all of the 43 QM standards.
- Member of IEEE, ACM, Society for Science & Public (SSP), Florida Association of International Educators
- National Institute of Health (NIH) Web-based training course "Protecting Human Research Participants".
- Certificate of Family Educational Rights and Privacy Act (FERPA) online training course by University of Alaska.
- Ranked 3, ACM programming contest at University of Nevada, Reno (2008).

PROFESSIONAL ACTIVITIES

- I served as a panelist on a National Science Foundation (NSF) Secure and Trustworthy Cyberspace (SaTC) panel. Arlington, Virginia.
- I served as a panelist on a National Science Foundation (NSF) Cyberinfrastructure for Sustained Scientific Innovation (CSSI) panel. Arlington, Virginia.
- I served as a panelist for NSF GRFP (National Science Foundation's Graduate Research Fellowship Program). The Fellowship provides support for research-based masters or doctoral degrees. The American Society for Engineering Education (ASEE) assists the NSF in the development of the discipline-based review panels and maintains a database of appropriate professors, researchers in the fields supported by the NSF. Panelists read and evaluate applications in their areas of expertise. I evaluated 21 applications. (Feb 14, 2019)
- I was invited and served as a panelist for the 2019 National Defense Science and Engineering Graduate (NDSEG) Fellowship's online application evaluation. The invitation came from Department of Defense (DoD) and the American Society for Engineering Education (ASEE). As a means of increasing the number of U.S. citizens and nationals trained in science and engineering disciplines of military importance, the Department of Defense (DoD) plans to award new three-year graduate fellowships for the class of 2019. The NDSEG Fellowship is sponsored by the Air Force Office of Scientific Research (AFOSR), the Army Research Office (ARO), and the Office of Naval Research (ONR) under the Office of the Assistant Secretary of Defense (OSD) for Research and Engineering. I evaluated 20 applicants. (Feb 2019).
- I served as a reviewer for a grant proposal submitted to Arctic Domain Awareness Center (ADAC), A U.S. Department of Homeland Security, Center of Excellence at the University of Alaska Anchorage.

- I attended AP (Advanced Placement) Reading in Kansas City, MO for 7 days. (June 2-8, 2017). This event is organized by Educational Testing Service (ETS). I graded Computer Science programming questions in the AP tests taken by high school students in order to get college credits.
- Panelist on a National Science Foundation (NSF) SaTC Small Projects panel. Arlington, Virginia. [[CNS](#)], [[NeTS](#)] (Mar 2017).
- I was invited and served as a panelist for the 2017 National Defense Science and Engineering Graduate (NDSEG) Fellowship's online application evaluation. The invitation came from Department of Defense (DoD) and the American Society for Engineering Education (ASEE). As a means of increasing the number of U.S. citizens and nationals trained in science and engineering disciplines of military importance, the Department of Defense (DoD) plans to award approximately 180 new three-year graduate fellowships for the class of 2017. I evaluated 31 applicants. (Oct 2016).
- Panelist on a National Science Foundation (NSF) Networking Technology and Systems (NeTS) Small Projects panel. Small Projects: up to \$500,000 total budget with durations up to three years. Arlington, Virginia. [[CNS](#)], [[NeTS](#)] (Apr 2016)
- I was selected as a faculty participant for the 3rd CReST Faculty Workshop held on July 18-19, 2016, at Auburn University.
- National Science Foundation (NSF) and National Center for Women & IT (NCWIT) has accepted my application to attend 2016 CISE/EHR PI and Community Meeting for CS in STEM. This meeting is a centerpiece of NSF efforts to build a community around broadening participation and education efforts in computer science. NSF covers all expenses. Meeting was held at the Gaylord Hotel in National Harbor, Maryland. (February 1-2, 2016) [[Link](#)]
- I attended the 2015 STEM-CP CE21: Computing Education for the 21st Century PI & Community Meeting. I was invited by The National Center for Women & IT (NCWIT) and the National Science Foundation (NSF) to the meeting with all expenses covered. Meeting was held in Baltimore, MD. (Jan 21-23, 2015). [[Link](#)]
- I served as a panelist for NSF GRFP (National Science Foundation's Graduate Research Fellowship Program). The Fellowship provides support for research-based masters or doctoral degrees. The American Society for Engineering Education (ASEE) assists the NSF in the development of the discipline-based review panels and maintains a database of appropriate professors, researchers in the fields supported by the NSF. Panelists read and evaluate applications in their areas of expertise. I evaluated 28 applications. (Jan 6, 2015)
- Served as Subject Matter Expert on Florida Teacher Certification Examination. The Florida Department of Education and Evaluation Systems group of Pearson, the states postsecondary assessment contractor, held a Florida Teacher Certification Examinations (FTCE) item writing and development session in Computer Science. The goal of the session is to write test questions for the Computer Science Teacher Certification Examination. I attended several FTCE Computer Science K-12 Item Specifications Finalization Meetings in Orlando. (11-12 Apr 2013, 3-5 May 2013).
- I evaluated the research grant application of a faculty member at Sam Houston State University.
- I am an Associate Editor in Turkish Journal of Engineering, Sciences and Technology.
- Editorial Board in JSciMed Central. JSM Computer Science & Engineering is an international, peer reviewed Open Access, academic and high quality journal.
- I was invited and served as a panelist for the 2014 National Defense Science and Engineering Graduate (NDSEG) Fellowship's online application evaluation. The invitation came from Department of Defense (DoD) and the American Society for Engineering Education (ASEE). As a means of increasing the number of U.S. citizens and nationals trained in science and engineering disciplines of military importance, the Department of Defense (DoD) plans to award approximately 200 new three-year graduate fellowships in April 2014. I evaluated 29 applicants.
- Session Chair, International Conference on Semantic Web and Web Services, Las Vegas, USA, July 2011.
- Session Chair, The 2011 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government, Las Vegas, Nevada, USA, July 2011.

Quality Matters (QM) Course Reviews

- Algorithms and Programming I in Kent State University (May 2017),
- Advanced Malware Reverse Engineering in Florida International University (April 2017).
- Introduction to Network Concepts in Tidewater Community College (Feb 2017).
- Fundamentals of Computer Programming and Data Structures in Columbus State University (Oct 2016).
- Introduction to Sociology at Calhoun Community College (Feb 2016).
- Data Analytics at Ohio Northern University (Jan 2016).

- Network Security Basics at Tidewater Community College (Nov 2015).
- Environmental Impact Assessment in University of West Florida (My role: Review Team Chair) (July 2015).
- Human Resources Management in University of West Florida (My role: Review Team Chair) (June 2015).
- Discrete Structure for Computer Science at University of Southern Indiana (May 2015).
- Computer Communication Networks at Florida International University (Apr 2015).
- Data-Driven Decisions Using Standardized Student Achievement Data in University of West Florida (Jan 2015).
- Configuring Windows Server 2012 Advanced Services in Polk State College (Mar 2014).
- Organizational Behavior at Florida International University (Nov 2014).
- Secure Telecommunication at Florida International University (July 2014).
- Applications of Information Technology in University of West Florida (Mar 2014).
- Database Administration in University of West Florida (Nov 2013).
- Software Assurance in University of West Florida (Dec 2013).
- Software Design in University of West Florida (Sep 2014).

Quality Matters (QM) Publisher Course Reviews

I am a Quality Matters (QM) Master Reviewer Publisher. I reviewed these publisher courses and also chaired the review teams;

- MindTap for Malik's C++ Programming for Cengage Learning Inc. (May 2017).
- MindTap for Lambert's Fundamentals of Python for Cengage Learning Inc. (May 2017).
- MindTap for Hands-On Ethical Hacking and Network Defense for Cengage Learning Inc. (April 2017).
- MindTap for Principles of Information Systems for Cengage Learning Inc. (April 2017).
- MindTap for Tilley's Systems Analysis and Design for Cengage Learning Inc. (April 2017).
- MindTap for Whitman's Mgmt of Info Security for Cengage Learning Inc. (April 2017).
- MindTap for Ciampa's Security Awareness for Cengage Learning Inc. (March 2017).
- MindTap for Andrew's A+ for Cengage Learning Inc. (July 2016).
- MindTap for West's CompTIA Network+ for Cengage Learning Inc. (June 2016).
- MindTap for Ciampa's CompTIA Security+ for Cengage Learning Inc. (June 2016).

Journal and Conference Reviewer

- [1] I served as reviewer for Society for Information Technology and Teacher Education (SITE) 2019 Conference. Las Vegas, NV (March 18, 2019). I reviewed 15 papers (Jan 2019).
- [2] I served as a reviewer for a manuscript submitted to IEEE Access Journal (Nov 2018).
- [3] I served as a reviewer for a manuscript submitted to Computers & Security Journal (Elsevier). (Sept 2018)
- [4] I served as reviewer for Journal of Network and Computer Applications (JNCA). I reviewed a manuscript about Multi-Attribute Query Resolution in Structured Peer-to-Peer Networks (Jan 2017).
- [5] I served as reviewer for Ohio Academy of Science Annual Conference at The University of Cincinnati. I reviewed 3 abstracts. (Dec 2016).
- [6] I served as reviewer for SITE 2017 conference, the Society for Information Technology and Teacher Education. Austin, Texas (March 5, 2017). I reviewed 6 papers (Nov 2016).
- [7] I served as reviewer for Journal of Sensors (ISSN 1424-8220) by MDPI. MDPI.com is a platform for peer-reviewed, scientific open-access journals operated by MDPI AG, based in Basel, Switzerland. I reviewed a manuscript about Underwater Wireless Sensor Network (Nov 2016). [[web](#)].
- [8] International Journal on Semantic Web and Information Systems (IJSWIS).
- [9] SITE 2014 conference (Society for Information Technology & Teacher Education)
- [10] Data Communications and Networks Concepts Textbook. Jones & Bartlett Learning Publisher.
- [11] Technical Gazette Journal
- [12] IJSEKE International Journal of Software Engineering and Knowledge Engineering.
- [13] SITE 2015 conference, the Society for Information Technology and Teacher Education. Las Vegas, Nevada: March 2 – 6, 2015.
- [14] The Third International Symposium on Women in Computing and Informatics (WCI-2015), Kochi, India, August 10-13, 2015.
- [15] Tourism Management Journal (Elsevier)

Program Committee Member

- [1] TISC 2011 IEEE international conference. (TISC2010 Acceptance Rate: 12%)
- [2] The 2012 International Conference on Grid Computing and Applications
- [3] IEEE-CCNC 2013 (Consumer Communications & Networking Conference)
- [4] The 2nd IEEE/SAE/ACM/IFAC International Conference on Connected Vehicles & Expo (ICCVE 2013), Las Vegas on 2-6 Dec 2013.
- [5] SITE 2014, the 25th annual conference of the Society for Information Technology and Teacher Education. Jacksonville, Florida: March 17-21, 2014
- [6] Third International Symposium on Intelligent Informatics (ISI'14), September 24-27, 2014, Delhi, India
- [7] GSCIT' 2014 (2014 Global Summit on Computer & Information Technology), Sousse, Tunisia, 14-16 June, 2014.
- [8] IEEE/TRB ICCVE 2014 (2014 International Conference on Connected Vehicles & Expo) in Vienna, Austria on 3-7 November 2014.
- [9] ICCAAD 2014 International Conference on Computer Applications & Aided Diagnosis
- [10] SITE 2015, annual conference of the Society for Information Technology and Teacher Education. March 2-6, 2015, in Las Vegas, NV.
- [11] A-BLAZE-2015 (International Conference on Futuristic Trends in Computational Analysis and Knowledge Management).
- [12] First International Conference on Computing in Mechanical Engineering (ICCME'15), August 2015, Kochi, India
- [13] WSCAR' 2015 (2015 World Symposium on Computer Applications & Research).
- [14] 2015 Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET'2015)
- [15] eQeSS 2015 (2015 International Conference on e-Quality & e-Service Sciences). 24-25 Feb, 2015 in Dubai, UAE.
- [16] Third International Symposium on Women in Computing and Informatics (WCI-2015), Kochi, India, August 2015.

Service to University

- I was elected as a faculty representative for the IT Research and Development Committee in the Faculty Senate for 2020-2022.
- I served as a committee member in the CECH RPT Committee during AY 2018-2019. I reviewed 33 dossiers submitted for Reappointment, Promotion and Tenure. I attended meetings and contributed to decisions with discussions, and preparing the letters.
- I have been serving on the CECH Academic Technology Instructional Design (ATID) Committee since Fall-2017. "The Academic Technology and Instructional Design Board (ATID) is a group of faculty members, instructional designers, and instructional technologists who meet to discuss innovative strategies in technology enabled learning. We share knowledge, resources, and technology solutions to improve the teaching and learning experience for all classrooms, whether face-to-face or online.". My responsibilities were attending ATID board meetings to discuss current issues related to the College's instructional design and technologies, and to review CECH Instructional Research and Development Technology Grant proposals.
- I served as a judge for Student Poster Session at the UC Data Day (March 2017).
- I served as a reviewer for CECH Graduate Student and Faculty Research Mentoring Grant. I reviewed 4 proposals. (Jan 2017).
- I served as a committee member in the CECH RPT Committee. (2016-2017).
- I served as the chair of College Council of College of Science and Engineering (CSE) at the University of West Florida. There are representatives from 14 departments of the College. We hold meetings every month. We discuss and make decisions on issues at the college level. I was elected for three years. In the first year, I participated several subcommittees in the council, i.e., Curriculum and Planning Committee, Governance Committee. In the Curriculum and

Planning Committee, we reviewed Curriculum Change Requests, and approved or rejected them. In my second year, I served as Vice Chair. In the third year, I am serving as the chair for the council. We, as the steering committee, meet with two deans (CSE and College of Health) every month to discuss the decisions made in our meetings, and convey the concerns of faculty members.

- I served as a judge for UWF Student Scholars Symposium in 2013, 2014, and 2015. I was the lead judge in 2015. Each year, I visited around 10-20 projects developed by undergraduate students, listened their research talks, and evaluated them. The Student Scholars Symposium features scholarly and creative works produced through collaboration between UWF students and faculty.
- I volunteered to conduct the interviews at the President's Scholarship Competition at UWF. There were over 160 high achieving, high school students traveling from all over the state to compete for UWF's most prestigious academic scholarships (14 full ride scholarships and 150 smaller academic scholarships). I interviewed 3 students and evaluated them. (Date: 1/24/2014).
- I was selected as the Lead Judge in Computer Science and Math category in Annual Science & Engineering Fair. I interviewed around 16 students to learn about their projects and graded them. This fair is a partnership of the College of Arts & Sciences and the Science Departments from Escambia and Santa Rosa County School Districts. There were over 200 middle and high school projects. (Date: 1/26/2014).
- I served in the search committee for a faculty position in Electrical and Computer Engineering department. (1/9/15)

Service to Department

- I served as a reviewer for IT8010 IT Project Course. I reviewed 3 projects and scored them.
- I served as a judge for High School Competition in the 2020 IT Expo. (April 14, 2020). I reviewed 5 project posters and their video presentations. Then we discussed our scores with other judges.
- I gave talks as a guest lecturer for IT7001 IT Graduate Seminar Course taught by my colleagues.
- I served as a reviewer for IT Research Symposium in the IT Expo 2019. (April 2019)
- I served as a judge for High School Poster Competition in the IT Expo 2019. (April 9, 2019)
- I have been chairing a task force to revise the School RPT document since November 2018. The committee is composed of three faculty members. We read the existing 2013 RPT document of our school and also the RPT documents of three other schools in our CECH college, thoroughly. We had multiple meetings to discuss the necessary changes.
- I have served on the search committee for several assistant professor or educator positions every year since 2017. We reviewed the applicants' documents, discussed the qualifications in meetings, and we conducted Webex and campus interviews.
- I served as a member in the ABET committee (2016-2017).
- Program chair for the IT Research of IT Expo (Apr 2017).
- Judge for senior projects at IT Expo 2017 (Apr 2017).
- I served as the learning coach in the CBE program (Summer 2017).
- I was member of around nine committees in Computer Science department at University of West Florida (Curriculum Committee, Resource Committee, Undergraduate Program Committee, Graduate Program Committee, Cyber Security Program Development Team, ABET Assessment Committee, Graduate Admissions Committee) (2012-2016).
- I served in the search committee for faculty lines in our department. I participated phone interviews, one-to-one meetings with the faculty candidates during their campus interviews (2012-2016).
- I served as the coordinator of lab tutors. I was in charge of hiring new tutors, scheduling the tutors. (2014 - 2016)
- Advised students about their course selections and future career decisions (2012-2016).
- I served as Search Committee member for Coordinator position for Cyber security program in our department. We looked at around 15 applications and discussed the qualifications (2015).

Service to Community

- I served as a judge in the State Science Day 2020 organized by Ohio Academy of Science. State Science Day is one of the largest of its kind in the nation. Drawing upon a base of over 25,000 students at 1,000+ local school science fairs, 797 students in grades 5–12 from 258 schools were evaluated on their scientific research and communication skills. First held in 1949, the 72nd Annual State Science Day is sponsored by: The Ohio Academy of Science, The American Electric Power Foundation, Battelle Memorial Institute, CAS, Charles River Laboratories, Kokosing, Ohio EPA–The Ohio Environmental Education Fund, Ohio Tuition Trust Authority–College Advantage, and The Ohio State University. I reviewed and scored 3 high school projects.
- I am a graduate of The 2017 FBI Citizens' Academy Foundation of Cincinnati. (4/2017 – 6/2017). I attended the FBI Citizens' Academy program for 8 weeks. The classes were 5:30pm-9:00pm on Thursdays. The Citizens' Academy is a stimulating program that gives business, religious, civic, and community leaders an inside look at the FBI. During the Academy, students participate in firearms demonstrations and practical problems involving the collection and preservation of physical evidence; are introduced to the structure and operation of an FBI field office and resident agency; are provided an overview of the legal basis for the FBI's jurisdiction and issues relating to congressional oversight; and learn the services the FBI provides to local and state law enforcement agencies. The Academy classes are taught by FBI staff, and/or others deemed appropriate by the division's Special Agent in Charge (SAC). I am also a member of FBI Cincinnati Citizens Academy Alumni Association.
- President of Turkish Student Association, University of Georgia, USA (8/2004 – 5/2006)
- Interpreter Volunteer, The INTEL International Science and Engineering Fair (3/2009)
The world's largest international pre-college science competition. 1,600 finalists from nearly 60 countries.

INDUSTRIAL WORK EXPERIENCE

5/2009 – 8/2010	Software engineer and database admin, PowerDEX Inc., Reno, NV (MVC, Silverlight, .NET 4.0, AJAX, C#, MSSQL, MySQL, PHP, JavaScript, CSS)
5/2008 – 8/2008	Web programmer, Testwave LLC., Reno, NV Developed a database-driven system in ASP.NET 3.5, MS SQL server
5/2007 – 8/2007	Web programmer, Yourally Inc., Reno, NV (PHP, MySQL, HTML, JavaScript, CSS, AJAX)
7/2001 – 9/2001	Intern, Datateknik Exper, Computer Production Factory, Istanbul, Turkey. Served in Production, Assembly Line, Technique Service, Networking.
8/2000 – 10/2000	Intern, Web developer, Channel D Television, Istanbul, Turkey.

SKILL SET

Java, C#, C++, C, Python, JavaFX, R, RStudio, Shiny, Silverlight, .NET, MSSQL, PHP, MySQL, MVC, HTML, JavaScript, AJAX, CSS, Amazon Web Services, VMware products (Workstation, vSphere, vCenter Server), Google Cloud Platform, Hyper-V, Azure, Advanced System Administration.