# HONGYI ZHU, PH.D.

**hongyi.zhu@utsa.edu, (520)-447-0525**
**Department of Information Systems and Cyber Security (ISCS)**
**Carlos Alvarez College of Business, The University of Texas at San Antonio (UTSA)**
**1 UTSA Circle, San Antonio, TX 78249**

## EDUCATION & CERTIFICATIONS

The University of Arizona
**Doctor of Philosophy (Ph.D.)** **2014 – 2019**
Advisor: Dr. Hsinchun Chen
Major: Management Information Systems
Minor: Cognitive Science

The University of Arizona
**Certificate in College Teaching** **2016 – 2017**

Tsinghua University
**Bachelor of Management (BBM)** **2010 – 2014**
Major: Information Management and Information Systems
Minor: Computer Science

## EMPLOYMENT

- **Assistant Professor,** Department of ISCS, UTSA **01/2020 – present**
- **Instructor,** Department of ISCS, UTSA **08/2019 – 12/2019**
- **Research Associate,** Artificial Intelligence (AI) Lab, University of Arizona **08/2014 – 05/2019**
- **Research Fellow,** International Smart Health Center (ISHC), Tsinghua University **07/2013 – 07/2014**
- **Summer Intern,** Pactera Technology International Ltd., Beijing, China **Summer 2013**

## RESEARCH INTERESTS

1. **Domain**: Mobile Health Analytics – mobile sensor data mining and pattern recognition for senior care and mental health applications; Cyber Threat Intelligence – vulnerability assessment and hacker community analysis; Business Analytics – knowledge mapping, technology outcome assessment, paper and patent analysis
2. **Methods**: Artificial intelligence, machine learning, deep learning, data mining, web mining, text mining, and visualization

## JOURNAL PUBLICATIONS

1. Ampel, B., Samtani, S., **Zhu, H.**, & Chen, H. Creating Proactive Cyber Threat Intelligence with Hacker Exploit Labels: A Deep Transfer Learning Approach. Forthcoming at *MIS Quarterly (MISQ)*.
2. Chai, Y., Liang, R., Samtani, S., **Zhu, H.**, Wang, M., Liu, Y., Jiang, Y. (2023). Additive Feature Attribution Explainable Methods to Craft Adversarial Attacks for Text Classification and Text Regression. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 35(12), 12400-12414.
3. Samtani, S., **Zhu, H.**, Padmanabhan, B., Chai, Y., Chen, H., & Nunamaker, J. F. (2023). Deep Learning for Information Systems Research. *Journal of Management Information Systems (JMIS)*,

40(1), 271-301.

4. **Zhu, H.**, Samtani, S., Brown, R., & Chen, H. (2021). A Deep Learning Approach for Recognizing Activity of Daily Living (ADL) for Senior Care: Exploiting Interaction Dependency and Temporal Patterns. *MIS Quarterly (MISQ)*, 45(2), 859-896.
5. Samtani, S., **Zhu, H.**, Chen, H. (2020). Proactively Identifying Emerging Hacker Threats: A Diachronic Graph Embedding Framework (D-GEF). *ACM Transactions on Privacy and Security (TOPS)*, 23(4), 1-33.
6. **Zhu, H.**, Samtani, S., Chen, H., & Nunamaker, J. F. (2020). Human Identification for Activities of Daily Living: A Deep Transfer Learning Approach. *Journal of Management Information Systems (JMIS)*, 37(2), 457–483.
7. Wu, L., **Zhu, H.**, Chen, H. & Roco, M. (2019). Comparing Nanotechnology Landscapes in US and China: A Patent Analysis Perspective. *Journal of Nanoparticle Research (JNR)*, 21(8), 180.
8. Samtani, S., **Zhu, H.** Yu, S. (2019). Fear Appeals and Information Security Behaviors: An Empirical Study on Mechanical Turk. *AIS Transactions on Replication Research (TRR)*, *5*(5), 1-22.
9. Yu, S., **Zhu, H.**, Jiang, S., Zhang, Y., Xing, C., & Chen, H. (2019). Emoticon Analysis for Chinese Social Media and E-commerce: The AZEmo System. *ACM Transactions on Management Information Systems (TMIS)*, 9(4), 16.
10. **Zhu, H.**, Chen, H., Brown, R. (2018). A Sequence-to-Sequence Model-Based Deep Learning Approach for Recognizing Activity of Daily Living for Senior Care. *Journal of Biomedical Informatics (JBI)*, 84, 148-158.
11. Samtani, S., Yu, S., **Zhu, H.**, Patton, M., & Chen, H. (2018). Identifying Supervisory Control and Data Acquisition (SCADA) Devices and their Vulnerabilities on the Internet of Things (IoT): A Text Mining Approach. *IEEE Intelligent Systems*, 33, 63-73.
12. **Zhu, H.**, Jiang, S., Chen, H., & Roco, M. C. (2017). International Perspective on Nanotechnology Papers, Patents, and NSF Awards (2000–2016). *Journal of Nanoparticle Research (JNR)*, 19(11), 370.

## JOURNAL PUBLICATIONS UNDER REVIEW

1. Wu, B., Liu, C. Z., **Zhu, H.**, & Choo, K.K.R. The Two-Sided Long-Tail Effects on Blockchain-Based Crowdsourcing Platforms. Under 1st round review at *Journal of Management Information Systems (JMIS)*.
2. Sachdeva, A., Lazarine, B., Samtani, S., **Zhu, H.**, & Venkataraman, R. Predicting Vulnerability Introduction in Social Coding Repositories: A Dynamic Graph Embedding Approach. Under 1st round review at *Information Systems Research (ISR)*.
3. Ullman, S., Samtani, S., **Zhu, H.**, & Chen, H. Linking Vulnerabilities in Cyberinfrastructure with Their Remediations: A Contrastive Self-Supervised Learning Approach. Under 1st round review at *Information Systems Research (ISR)*.
4. Jozani, M., Liu, C. Z., **Zhu, H.,** Liu, L., & Choo, K.K.R. The Rise and Fall of the Superstars: Examining Top Chart Dynamics through A Network Approach. Under 1st round review at *Information Systems Frontiers*.
5. Ullman, S., Samtani, S., **Zhu, H.**, Lazarine, B., & Chen, H. Detecting and Grouping Vulnerable Virtual Machines in Cloud Computing: A Multi-View Representation Learning Approach. Under 2nd round review at *Journal of Management Information Systems (JMIS).*
6. Lin, F., Samtani, S., **Zhu, H.**, & Chen, H. Automated Analysis of Changes in Privacy Policies: A Structured Self-Attentive Sentence Embedding Approach. Conditional Acceptance at *MIS Quarterly (MISQ)*.
7. Ampel, B., Samtani, S., **Zhu, H.**, & Chen, H. Linking Hacker Exploits to a Cybersecurity Risk Management Framework: A Knowledge Distillation Approach. Under 2nd round review at *Journal of Management Information Systems (JMIS)*.

8. Chai, Y., Liu, H., **Zhu, H.**, Pan, Y., Zhou, A., Liu, H., Liu, J., Qian, Y. A Profile Similarity-based Personalized Federated Learning Method for Wearable Sensor-based Human Activity Recognition. Under 2nd round review at *Information & Management*.
9. Lin, F., Samtani, S., **Zhu, H.**, Brandimarte, L., & Chen, H. Exploring Privacy Risk of Exposed Digital Personally Identifiable Information: A Relationship- and Attention-based Entity Resolution Approach. 1st round R&R at *Information Systems Research (ISR)*.
10. Wu, B., Liu, C. Z., & **Zhu, H.** *Does Online Creators' Cooperation Lead to Cannibalization or Expansion? Empirical Evidence from a Two-sided Livestreaming Platform*. 1st round R&R at *Information & Management*.

## WORKING PAPERS

1. Lazarine, B., Samtani, S., Patton, M., **Zhu, H.**, & Chen, H. Identifying Vulnerable GitHub Repositories and Users for Scientific Cyberinfrastructure: An Unsupervised Graph Embedding Approach. In preparation of submission to *Journal of Management Information Systems (JMIS)*.
2. Ahmad-Post, Z., Samtani, S., **Zhu, H.**, & Brown, S. Russian Computational Propaganda – Tracing Message Dissemination to U.S. Audiences: A Deep Learning-Based Short Text Matching Approach. Targeted at *Information Systems Research (ISR)*.
3. Samtani, S., **Zhu, H.**, Chai, Y. Co-occurrence Graph Attention Autoencoder (CoGATE) for Word, Sentence, and Document Embeddings. Targeted at *Information Systems Research (ISR)*.
4. **Zhu, H.**, Chai, Y., Samtani, S., & Chen, H. An Attention-Based Deep Learning Approach for Mobile Health: An Application on Activities of Daily Living. Targeted at *IEEE Transactions on Knowledge and Data Engineering (TKDE)*.
5. Liu, Y., **Zhu, H.,** Chen, H. Commercialization Impact Analysis of National Science Foundation Nanotechnology Funding: An Exploratory Study. Targeted at *Journal of Nanoparticle Research (JNR)*.
6. Cao, L., **Zhu, H.**, Chen, H. Comparative Studies of Global Value Chain (GVC) Research in English and Chinese Literature. Targeted at *Journal of the Association for Information Science and Technology (JASIST)*.

## REFEREED CONFERENCE PROCEEDINGS

1. Wu, B., Liu, C. Z., Choo, K. K. R., **Zhu, H.**, and Chang, S. (2024, January). Two-Sided Long Tails on Blockchain-Based Crowdsourcing Platforms. In *Proceedings of the 57th Hawaii International Conference on System Sciences* (HICSS-57).
2. Sachdeva, A., Lazarine, B., **Zhu, H.**, & Samtani, S. (2023, July). User Profiling and Vulnerability Introduction Prediction in Social Coding Repositories: A Dynamic Graph Embedding Approach. In *Proceedings of the 16th Workshop on Cyber Security Experimentation and Test (CSET'23)*.
3. Yuan, A., Xu, M., **Zhu, H.**, Samtani, S., & Garcia, E. (2023, July) Towards Privacy-Preserving Depression Detection: Experiments on Passive Sensor Signal Data. In *Proceedings of the 2023 IEEE International Conference on Digital Health* (ICDH 2023).
4. Chai, Y., Liang, R., Samtani, S., **Zhu, H.**, Wang, M., Liu, Y., & Jiang, Y. (2022, December) Additive Feature Attribution Explainable Methods to Craft Adversarial Attacks for Text Classification and Text Regression. In *Proceedings of the 10th Annual Meeting of China Association for Information Systems (CNAIS 2022)*.
5. Sachdeva, A., Lazarine, B., Dama, R., Samtani, S., & **Zhu, H.** (2022, December). Identifying Patterns of Vulnerability Incidence in Foundational Machine Learning Repositories on GitHub: An Unsupervised Graph Embedding Approach. In *Proceedings of the 2nd ICDM Workshop of Machine*

*Learning for Cybersecurity (MLC)*. IEEE.

6. Lazarine, B., Zhang, Z., Sachdeva, A., Samtani, S., & **Zhu, H.** (2022, August). Exploring the Propagation of Vulnerabilities from GitHub Repositories Hosted by Major Technology Organizations. In *Proceedings of the 15th Workshop on Cyber Security Experimentation and Test (CSET'22)*. Association for Computing Machinery, New York, NY, USA, 145–150.
7. Otto, K., Ampel, B., Samtani, S., **Zhu, H.**, and Chen, H. (2021, November). Exploring the Evolution of Exploit-Sharing Hackers: An Unsupervised Graph Embedding Approach. In *2021 IEEE Conference on Intelligence and Security Informatics (ISI)*. IEEE.
8. Ahmad-Post, Z., Samtani, S., **Zhu, H.**, and Brown, S. A. (2021, August). Political News Propagation Headline Matching: A Deep Learning-Based Short Text Matching Approach. In *1st KDD Workshop on AI-Enabled Cybersecurity Analytics*, Singapore, August, pp. 1–6.
9. Wu, B., Liu, C. Z., **Zhu, H.** (2020, December). Will Cooperation Help Content Creators Grow? Empirical Evidence from Twitch.tv. In *International Conference on Information Systems 2020*.
10. Ampel, B., Samtani, S., **Zhu, H.**, Ullman, S., & Chen, H. (2020, November). Labeling Hacker Exploits for Proactive Cyber Threat Intelligence: A Deep Transfer Learning Approach. In 2020 IEEE Conference on *Intelligence and Security Informatics* (ISI). IEEE.
11. Ullman, S., Samtani, S., Lazarine, B., **Zhu, H.**, Ampel, B., Patton M., & Chen, H. (2020, November). Smart Vulnerability Assessment for Scientific Cyberinfrastructure: An Unsupervised Graph Embedding Approach. In 2020 IEEE Conference on *Intelligence and Security Informatics* (ISI). IEEE.
12. Lazarine, B., Samtani, S., Patton, M., **Zhu, H.**, Ullman, S., Ampel, B., & Chen, H. (2020, November). Identifying Vulnerable GitHub Repositories and Users in Scientific Cyberinfrastructure: An Unsupervised Graph Embedding Approach. In 2020 IEEE Conference on *Intelligence and Security Informatics* (ISI). IEEE.
13. Maimoon, L., Chuang, J., **Zhu, H.**, Yu, S., Peng, K. S., Prayakarao, R., Bai, J., Zeng, D., Li, S., Lu, H, & Chen, H. (2016, December). SilverLink: Developing an International Smart and Connected Home Monitoring System for Senior Care. In *International Conference on Smart Health* (pp. 65-77). Springer, Cham.
14. Samtani, S., Yu, S., **Zhu, H.**, Patton, M., & Chen, H. (2016, September). Identifying SCADA vulnerabilities using passive and active vulnerability assessment techniques. In *Intelligence and Security Informatics* (ISI), 2016 IEEE Conference on (pp. 25-30). IEEE.
15. Chuang, J., Maimoon, L., Yu, S., **Zhu, H.**, Nybroe, C., Hsiao, O., Li, S., Lu, H., & Chen, H. (2015). SilverLink: Smart Home Health Monitoring for Senior Care. In *Smart Health* (pp. 3-14). Springer.
16. Yu, S., **Zhu, H.**, Jiang, S., & Chen, H. (2014). Emoticon Analysis for Chinese Health and Fitness Topics. In *Smart Health* (pp. 1-12). Springer.

## INVITED TALKS AND EXTERNAL PRESENTATIONS

1. The University of Texas at San Antonio (UTSA), College of Business. Dean's Seminar Series: Panel on Teaching Across Modalities. February 17, 2023.
2. INFORMS Annual Meeting. **Presentation Title:** An Attention-Based Deep Learning Approach for Mobile Health: An Application on Activities of Daily Living. Virtual due to COVID-19. November 2-3, 2020.
3. The University of Texas at San Antonio (UTSA), College of Business. **Presentation Title:** Developing Smart and Unobtrusive Mobile Home Care: A Deep Learning Approach. San Antonio, TX. February 4, 2019.
4. The University of South Florida (USF), Muma College of Business. **Presentation Title:** Developing Smart and Unobtrusive Mobile Home Care: A Deep Learning Approach. Tampa, FL. January 29, 2019.
5. Penn State University (PSU), Smeal College of Business. **Presentation Title**: Developing Smart and

Unobtrusive Mobile Home Care: A Deep Learning Approach. State College, PA. January 11, 2019.
6. Santa Clara University (SCU), Leavey School of Business. **Presentation Title:** Developing Smart and Unobtrusive Mobile Home Care: A Deep Learning Approach. Santa Clara, CA. December 20, 2018.
7. San Diego State University (SDSU), Fowler College of Business. **Presentation Title:** Developing Smart and Unobtrusive Mobile Home Care: A Deep Learning Approach. San Diego, CA. October 19, 2018.
8. University of Arizona, Bio5 Wearables Workshop. **Poster Title:** A Deep Learning Method to Recognize Interactions Between Wearable and Environment Sensors. Tucson, AZ. August 12, 2016.
9. 2015 NSF Nanoscale Science and Engineering Grantees Meeting. **Poster Title:** Global Nanotechnology Development: Nano 1 (2000-2010) vs. Nano 2 (2011-2014). Arlington, VA. December 9-10, 2015.
10. University of Arizona (UA) – Tsinghua University Business Analytics Workshop. **Presentation Title:** Emoticon Analysis for Chinese Social Media: The AZEmo System. Tucson, AZ. May 19-21, 2015.
11. University of Arizona (UA) – Tsinghua University Business Analytics Workshop. **Presentation Title:** Emoticon Analysis for Chinese E-Commerce Websites. Beijing, China. May 5-7, 2014.

## GRANT APPLICATIONS

1. SCH: Developing Artificial Intelligence (AI)-Enabled Mental Health Analytics to Objectively Identify and Measure Mental Health Disorders. **Funding Source:** National Science Foundation via Indiana University. **Year:** 2023. **Requested Amount:** $1,195,929 (Subaward: $149,970). **Status:** Pending. **Role:** Co-PI.
2. Assessing and Predicting Technology Outcomes for High-Performance Computing (HPC) and Semiconductors: Data, Tools, and Models. **Funding Source:** National Science Foundation via University of Arizona. **Year:** 2023. **Requested Amount:** Subaward: $749,967. **Status:** Pending. **Role:** Subaward PI.
3. Proto-OKN Theme 1: Developing Open Knowledge Networks for Human Trafficking: An Intelligence-led Data-sharing Collaborative. **Funding Source:** National Science Foundation. **Year:** 2023. **Requested Amount:** $1,257,298. **Status:** Pending. **Role:** PI.
4. THECB Cybersecurity Foundations: Telecommunications and Networking. **Funding Source:** Texas Higher Education Coordinating Board. **Year:** 2023. **Requested Amount:** $25,000. **Status:** Awarded. Role: Co-PI.
5. Collaborative Research: D-ISN: TRACK 1: Disrupting Sex Trafficking Networks: An Intelligence-led Data-sharing Collaborative. **Funding Source:** National Science Foundation. **Year:** 2021. **Requested Amount:** $340,000. **Status:** Declined. **Role:** Co-PI.
6. Pattern-based Classification for Detecting Mental Disorders in Social Network Users. **Funding Source:** ConTex. **Year:** 2020. **Requested Amount:** $68,000. **Status:** Declined. **Role:** Co-PI.
7. EAGER: A Longitudinal Study of Knowledge Diffusion and Societal Impact of Nanomanufacturing Research & Development: Harnessing Data for Science and Engineering. **Funding Source:** National Science Foundation via University of Arizona. **Year**: 2020. **Requested Amount:** Subaward: $27,492. **Status:** Awarded. **Role:** Subaward PI.
8. SCH: INT: Deep Learning-based Mobile Analytics and Health Technology Acceptance Model for Chronic Care: A Case for Parkinson's Disease Risk Assessment. **Funding Source:** National Science Foundation. **Year:** 2019. **Requested Amount:** $1,170,000. **Status:** Declined. **Role:** Co-PI.

## TEACHING EXPERIENCE

**Instructor**

University of Texas at San Antonio – IS 5203 **"Telecommunication Systems"**

- Fall 2022, 4.44/5.00 (30 students, online asynchronous)
- Spring 2022, 4.40/5.00 (45 students, online asynchronous)
- Fall 2021, 4.47/5.00 (56 students, online asynchronous)
- Spring 2021, 3.83/5.00 (48 students, online asynchronous)
- Fall 2020, 3.06/5.00 (49 students, course redesign, modality change: online asynchronous)

University of Texas at San Antonio – IS 3413 **"Intro: Telecom for Business"**

- Fall 2022, 4.32/5.00 (50 students, online synchronous)
- Fall 2021, 4.65/5.00 (50 students, modality change: online synchronous)
- Fall 2020, 4.29/5.00 (31 students, modality change: F2F+online asynchronous)
- Spring 2020, -.-- / 5.00 (48 students, no evaluation due to COVID-19)
- Fall 2019, 4.41 / 5.00 (58 students)

University of Arizona – MIS 373 **"Basics Operations Management"**

- Summer 2018, 4.54 / 5.00 (29 students)
- Summer 2017, 2.55 / 5.00 (23 students, evening undergraduate program)

**Supervisor**

University of Texas at San Antonio – IS 6953 **"Independent Study"**

- Summer 2020 (1 PhD student)

University of Texas at San Antonio – IS 4943 **"Internship in Cyber Security"**

- Spring 2020 (1 UG student)

**Teaching Assistant**

University of Arizona – MIS 611D **"Topics in Data and Web Mining"**

- Spring 2019, instructor: Dr. Hsinchun Chen
  - Assist class material preparation (Recurrent Neural Networks, Information Visualization)
  - Lecture in lab sessions (Tableau); Q&A sessions (Weka)

University of Arizona – MIS 464 **"Data Analytics"**

- Spring 2019, instructor: Dr. Hsinchun Chen
  - Assist class material preparation (Recurrent Neural Networks, Information Visualization)
  - Lecture in lab sessions (Tableau); Q&A sessions (Weka)

Tsinghua University – **"Computer Programming Language"**

- Spring 2013, instructor: Dr. Zhong Wen
  - In charge of office hours, grading, and lab sessions

## PROFESSIONAL SERVICES

**Journal**

**1. Editorial**

- Journal of Database Management (JDM)
  - Editorial Review Board Member, since August 1, 2020.
- ACM Transactions on Management Information Systems (TMIS).
  - Editorial Board Member for the Special Issue on IT-enabled Business Management and Decision Making in (Post) Covid-19 Era, 2022.
- Journal of the Association for Information Systems (JAIS).

- Editorial Board Member for the Special Issue on Health Analytics and IS Theorizing, 2023.

2. **Ad-hoc Reviewer:**
   - Computers and Electrical Engineering, 2018.
   - International Journal of Distributed Sensor Networks, 2018, 2019.
   - Information Systems Frontiers (ISF), 2019, 2022.
   - Journal of Biomedical Informatics (JBI), 2019.
   - Management Science (MS)
     - Regular track, 2020, 2021, 2022.
     - Special Issue on Data-Driven Prescriptive Analytics, 2019.
   - Scientometrics, 2019.
   - ACM Transactions on Management Information Systems (TMIS).
     - Regular Issue, 2021, 2022, 2023.
     - Special Issue on Analytics for Cybersecurity and Privacy, 2019.
     - Special Issue on Design and Data Science in Healthcare, 2022.
   - Computers & Security, 2019, 2020, 2023.
   - Information Processing and Management (IP&M), 2019, 2020.
   - IEEE Transactions on Engineering Management (TEM), 2019, 2020, 2021, 2022.
   - Information & Management, 2020.
   - Journal of Management Information Systems (JMIS), 2020.
   - ACM SIGMIS Database: The DATABASE for Advances in Information Systems, 2020.
   - Technology in Society, 2020.
   - IEEE Transactions on Dependable and Secure Computing (TDSC), 2020, 2021, 2022.
   - Journal of Combinatorial Optimization, 2021.
   - INFORMS Journal of Computing, 2021, 2022, 2023.
   - Future Generation Computer Systems, 2021.
   - Information Technology & People, 2021, 2022.
   - Electronic Commerce Research, 2021, 2022.
   - MDPI Sensors, 2021.
   - MIS Quarterly (MISQ), 2022, 2023.
   - ACM Digital Threats: Research and Practice (DTRAP), 2022.
   - IEEE Intelligent Systems, 2022.
   - Complex & Intelligent Systems, 2022, 2023.
   - Information Systems Research (ISR), 2022.
   - Healthcare Analytics, 2022.
   - Journal of the Association for Information Science and Technology (JASIST), 2023.

**<u>Conference</u>**

1. **Conference Chair Roles:**
   - Mini-track Co-Chair, the Hawaii International Conference on System Sciences (HICSS-57), "Cybersecurity in the Age of Artificial Intelligence, AI for Cybersecurity, and Cybersecurity for AI," 2024.
   - Session Co-Chair, INFORMS Annual Meeting, "Data Science and Design Science in Information Systems Flash Session," 2023.
   - Publicity Chair, International Conference on Secure Knowledge Management (SKM), 2023.
   - Program Committee Co-Chair, IEEE Intelligence and Security Informatics (ISI), 2021.
   - Session Chair, INFORMS Annual Meeting, "Healthcare Analytics: Deep Learning Approaches for Health Data," 2018.
2. **Program Committee Roles:**
   - IEEE Intelligence and Security Informatics (ISI), 2023.
   - International Conference on Secure Knowledge Management (SKM), 2021.

- ACM KDD Workshop on AI-enabled Cybersecurity Analytics (AI4Cyber), 2021, 2022, 2023.
- Pacific Asia Conference on Information Systems (PACIS), 2021, 2023.
- International Conference on Computational Data and Social Networks (CSoNet), 2020.
- IEEE International Conference on Data Mining - Workshop on Deep Learning for Cyber Threat Intelligence (IEEE ICDM – DLCTI), 2020.
- International Conference on Smart Health (ICSH), 2019.

3. **Reviewer:**
   - International Conference on Information Systems (ICIS), 2019, 2020, 2021, 2022, 2023.
   - IEEE International Conference on Multimedia and Expo (ICME), 2021, 2022, 2023.
   - The Hawaii International Conference on System Sciences (HICSS), 2020.
   - Pacific Asia Conference on Information Systems (PACIS), 2020.
   - Workshop on Information Technologies and Systems (WITS), 2019.
   - ACM User Modeling, Adaptation, and Personalization (ACM UMAP), 2019.
   - International Conference on Smart Health (ICSH), 2018, 2019.
   - INFORMS Workshop on Data Science (WDS), 2018.
   - Conference on Information Systems and Technology (CIST), 2017.
4. **Volunteer:** IEEE Intelligence and Security Informatics (ISI), 2016.

## AWARDS

1. Winner, Best Student Paper Award. The Conference on Health IT and Analytics (CHITA). 2023.
2. Dean's Distinguished Research Award. Carlos Alvarez College of Business, University of Texas at San Antonio. 2021, 2022, 2023.
3. Winner, Best Paper Award. IEEE Intelligence and Security Informatics (ISI). 2020.
4. Paul S. and Shirley Goodman Award. Department of Management Information Systems, University of Arizona. 2018.
5. Graduate & Professional Student Council Travel Grant. University of Arizona. 2018.
6. Doctoral Consortium. American Conference on Information Systems (AMCIS). 2018.
7. Hongqian Scholarship. School of Economics and Management, Tsinghua University. 2013.

## PROFESSIONAL AFFILIATIONS

1. Association of Information Systems (AIS), Member
2. Association of Computing Machinery (ACM), Member
3. Institute of Electrical and Electronics Engineers (IEEE), Member
4. Institute for Operations Research and the Management Sciences (INFORMS), Member

## RELEVANT SKILLS

1. **Programming Languages:** Python, Java, Android, SQL, PL/SQL, C, C++, R, Perl
2. **Databases:** MySQL, SQL Server, PostgreSQL, Oracle, Access
3. **Middleware & Mobile App Development:** Mobile Home Monitoring & Data Collection System (Cloud database and service, Android gateway, and Bluetooth-enabled mobile sensors)
4. **Web Development:** HTML, CSS, Javascript, jQuery
5. **Data Mining Tools:** Weka, RapidMiner, SPSS Modeler
6. **Visualization Tools:** Gephi, Tableau, VTK, OpenFramework, Processing, D3.js, Sci2
7. **Cybersecurity Tools:** Shodan, NMap
8. **Operating Systems:** Windows, Linux
9. **Big Data Tools:** Hadoop, Spark