

Yunhe Feng

Assistant Professor, Department of Computer Science & Engineering, University of North Texas (UNT)
Affiliate Assistant Professor, Department of Data Science, University of North Texas

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RESEARCH INTERESTS

Responsible AI, Efficient Generative AI, Applied AI, AI Privacy and Security

EDUCATION

Ph.D. in Computer Science, University of Tennessee, Knoxville, USA, 2020

M.E. in Computer Technology, Beijing University of Technology, China, 2014

B.E. in Computer Science & Technology, Beijing University of Technology, China, 2011

PROFESSIONAL EXPERIENCE

University of North Texas <i>Assistant Professor</i> , Aug. 2022 – now	Denton, TX
U of Washington <i>Responsible AI Systems and Experiences (RAISE) Affiliate</i> , 2021 – now	Seattle, WA
University of Washington <i>UW Data Science Postdoctoral Fellow</i> , Sep. 2021 – Jul. 2022	Seattle, WA
University of Michigan <i>Visiting Scholar</i> , June 2022	Ann Arbor, MI
University of Washington <i>Postdoctoral Scholar</i> , Aug. 2020 – Aug. 2021	Seattle, WA
University of Tennessee, Knoxville (UTK) <i>Graduate Research Assistant</i> , 2014 – 2020	Knoxville, TN
Oak Ridge National Laboratory <i>Research Assistant</i> , Dec. 2018 – Sep. 2019	Oak Ridge, TN
Oak Ridge National Laboratory <i>Deep Learning Research Intern</i> , Summer 2018	Oak Ridge, TN

PUBLICATIONS

Peer-Reviewed Publications and Preprints

** indicates UNT student co-author*

- Sumera Anjum^{*}, Weijian Zheng, Rajkumar Kettimuthu, Heng Fan, and **Yunhe Feng**. ProMCP: Profiling Token Flows and Latency Costs in Model Context Protocol-Based LLM Agents. In *Findings of the Association for Computational Linguistics (ACL)*, 2026.
- Dawei Gao^{*}, Angello Huerta Gomez^{*}, Mingchen Li^{*}, Marcel El-Mokahal^{*}, Huaxiao Yang, and **Yunhe Feng**. OrgaCast: A Trustworthy Spatiotemporal Diffusion Model for Fluorescence Organoid Forecasting. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2026.
- Sina Montazeri^{*}, Walteneagus Dargie, Yunhe Feng, and Kewei Sha. Physical activity recognition based on electrocardiogram data only. *Smart Health*, page 100652, 2026.
- Mingchen Li^{*}, Wajdi Aljedaani, Yingjie Liu, Navyasri Meka^{*}, Xuan Lu, Xinyue Ye, Junhua Ding, and **Yunhe Feng**. Digital Skin, Digital Bias: Uncovering Tone-Based Biases in LLMs and Emoji Embeddings. In *Proceedings of the ACM Web Conference (WWW)*, 2026.

5. Mingchen Li^{*}, Hanzhi Zhang^{*}, Heng Fan, Junhua Ding, and **Yunhe Feng**. Harmful Factuality: LLMs Correcting What They Shouldn't. In *Findings of 2026 European Chapter of the Association for Computational Linguistics (EACL)*, 2026.
6. Mohammad Abu Shaira^{*}, **Yunhe Feng**, Heng Fan, and Weishi Shi. Olc-wa: Drift aware tuning-free online classification with weighted average. *Expert Systems with Applications*, page 130848, 2025.
7. Huaxiao Yang, **Yunhe Feng**, and Arun Kumar Reddy Kandula^{*}. Methods and systems for generating colored organoid images, July 10 2025. US Patent App. 19/006,685.
8. Sina Montazeri^{*}, **Yunhe Feng**, and Kewei Sha. PublicAgent: Multi-Agent Design Principles From an LLM-Based Open Data Analysis Framework. *arXiv preprint arXiv:2511.03023*, 2025.
9. Bing Fan^{*}, **Yunhe Feng**, Yapeng Tian, Yuewei Lin, Yan Huang, and Heng Fan. PRVQL: Progressive Knowledge-guided Refinement for Robust Egocentric Visual Query Localization. In *2025 International Conference on Computer Vision (ICCV)*, 2025.
10. Mingchen Li^{*}, Heng Fan, Song Fu, Junhua Ding, and **Yunhe Feng**. DP-GTR: Differentially Private Prompt Protection via Group Text Rewriting. *Findings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2025.
11. Shaohua Dong^{*}, **Yunhe Feng**, James Liang, Qing Yang, Yuewei Lin, Yan Huang, and Heng Fan. Efficient and Accurate Low-Resolution Transformer Tracking. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025.
12. Hanzhi Zhang^{*}, Heng Fan, Kewei Sha, Yan Huang, and **Yunhe Feng**. DAM: Dynamic Attention Mask for Long-Context Large Language Model Inference Acceleration. In *Findings of the Association for Computational Linguistics (ACL)*, 2025.
13. Hanzhi Zhang^{*}, Sumera Anjum^{*}, Heng Fan, Weijian Zheng, Yan Huang, and **Yunhe Feng**. Poly-FEVER: A Multilingual Fact Verification Benchmark for Hallucination Detection in Large Language Models. *arXiv preprint arXiv:2503.16541*, 2025.
14. Hanzhi Zhang^{*}, Harold Lucero^{*}, Kewei Sha, Heng Fan, Song Fu, and **Yunhe Feng**. D2SO: Detecting Distant and Small Objects for Vision-Based Vehicle Autonomous Systems. In *2025 IEEE 3rd International Conference on Mobility, Operations, Services and Technologies (MOST)*, pages 35–42. IEEE, 2025.
15. Zhuowei Gu, Dali Wang, Dawei Gao^{*}, **Yunhe Feng**, and Qinglei Cao. Flexible User-Defined Domain Decomposition in Kilometer-Scale E3SM Land Model Simulation. In *International Conference on Computational Science*, pages 164–178. Springer, 2025.
16. Sumera Anjum^{*}, Hanzhi Zhang^{*}, Wenjun Zhou, Eun Jin Paek, Xiaopeng Zhao, and **Yunhe Feng**. HALO: Hallucination Analysis and Learning Optimization to Empower LLMs with Retrieval-Augmented Context for Guided Clinical Decision Making. In *IEEE/ACM conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)*, 2025.
17. Arun Kumar Reddy Kandula^{*}, Tanakit Phamornratanakun^{*}, Angello Huerta Gomez^{*}, Marcel El-Mokahal^{*}, Zhen Ma, **Yunhe Feng**, and Huaxiao Yang. Generative AI for Cardiovascular Cell Type-Specific Fluorescence Colorization of Live-Cell hPSC-Derived Cardiac Organoids. *Advanced Intelligent Discovery*, page 202400041, 2025.

18. Huiyu Xu, Wenhui Zhang, Zhibo Wang, Feng Xiao, Rui Zheng, **Yunhe Feng**, Zhongjie Ba, and Kui Ren. RedAgent: Red Teaming Large Language Models with Context-aware Autonomous Language Agent. *arXiv preprint arXiv:2407.16667*, 2024.
19. Zhongyi Wang, Haoxuan Zhang^{*}, Haihua Chen, **Yunhe Feng**, and Junhua Ding. Content-based quality evaluation of scientific papers using coarse feature and knowledge entity network. *Journal of King Saud University-Computer and Information Sciences*, 36(6):102119, 2024.
20. Rafid Ishrak Jahan^{*}, Heng Fan, Haihua Chen, and **Yunhe Feng**. Unlocking Cross-Lingual Sentiment Analysis through Emoji Interpretation: A Multimodal Generative AI Approach. *arXiv preprint arXiv:2412.17255*, 2024.
21. Huanhuan Zhao, Haihua Chen, Thomas A Ruggles, **Yunhe Feng**, Debjani Singh, and Hong-Jun Yoon. Improving Text Classification with Large Language Model-Based Data Augmentation. *Electronics*, 13(13):2535, 2024.
22. Guodong Cao, Zhibo Wang, **Yunhe Feng**, and Xiaowei Dong. DAAP: Privacy-Preserving Model Accuracy Estimation on Unlabeled Datasets Through Distribution-Aware Adversarial Perturbation. In *The 33rd USENIX Security Symposium (USENIX Security)*, 2024.
23. Xiaoqiong Liu, **Yunhe Feng**, Shu Hu, Xiaohui Yuan, and Heng Fan. Benchmarking the robustness of uav tracking against common corruptions. *arXiv preprint arXiv:2403.11424*, 2024.
24. Abdul Arbaz^{*}, Heng Fan, Junhua Ding, Meikang Qiu, and **Yunhe Feng**. GenFlowchart: Parsing and Understanding Flowchart Using Generative AI. In *17th International Conference on Knowledge Science, Engineering and Management (KSEM)*, 2024.
25. Shihui Song, Yafan Huang, Peng Jiang, Xiaodong Yu, Weijian Zheng, Sheng Di, Qinglei Cao, **Yunhe Feng**, Zhen Xie, and Franck Cappello. CereSZ: Enabling and Scaling Error-bounded Lossy Compression on Cerebras CS-2. *The ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, 2024.
26. Wajdi Aljedaani, Abdulrahman Habib, Ahmed Aljohani, Marcelo Eler, and **Yunhe Feng**. Does ChatGPT Generate Accessible Code? Investigating Accessibility Challenges in LLM-Generated Source Code. In *21st International Web for All Conference (Web4All)*, 2024.
27. Shaohua Dong^{*}, **Yunhe Feng**, Qing Yang, Yan Huang, Dongfang Liu, and Heng Fan. Efficient Multimodal Semantic Segmentation via Dual-Prompt Learning. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2024.
28. Gowtham Mediseti^{*}, Zacchaeus Compson, Heng Fan, Huaxiao Yang, and **Yunhe Feng**. LitAI: Enhancing Multimodal Literature Understanding and Mining with Generative AI. In *The 7th IEEE International Conference on Multimedia Information Processing and Retrieval (MIPR)*, 2024.
29. Kareem Shaik^{*}, Dali Wang, Weijian Zheng, Qinglei Cao, Heng Fan, Peter Schwartz, and **Yunhe Feng**. S3LLM: Large-Scale Scientific Software Understanding with LLMs using Source, Metadata, and Document. *24th International Conference on Computational Science (ICCS)*, 2024.
30. Pegah Ahadian, **Yunhe Feng**, Karl Kosko, Richard Ferdig, and Qiang Guan. MNIST-Fraction: Enhancing Math Education with AI-Driven Fraction Detection and Analysis. *2024 ACM Southeast Conference*, 2024.

31. Pegah Ahadian, Karl Kosko, **Yunhe Feng**, Richard Ferdig, and Qiang Guan. FractionNet: AI-Driven Insights in Transforming Handwritten Fraction Detection for Teacher Education. *35th annual conference of the Society for Information Technology and Teacher Education (SITE)*, 2024.
32. Colton Clemmer^{*}, Junhua Ding, and **Yunhe Feng**. PreciseDebias: An Automatic Prompt Engineering Approach for Generative AI to Mitigate Image Demographic Biases. In *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2024.
33. Guodong Cao, Zhibo Wang, **Yunhe Feng**, Xiaowei Dong, Zhifei Zhang, Zhan Qin, and Kui Ren. Task-Free Fairness-Aware Bias Mitigation for Black-Box Deployed Models. In *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 2023.
34. Preetam Dammu, **Yunhe Feng**, and Chirag Shah. Addressing Weak Decision Boundaries in Image Classification by Leveraging Web Search and Generative Models. In *2023 International Joint Conference on Artificial Intelligence (IJCAI)*, 2023 [Acceptance rate: 20%].
35. **Yunhe Feng**, Zexuan Meng^{*}, Colton Clemmer^{*}, Heng Fan, and Yan Huang. A Multi-granularity Decade-Long Geo-Tagged Twitter Dataset for Spatial Computing. In *31st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL)*, 2023.
36. Lei Zhang, Zhibo Wang, Xiaowei Dong, **Yunhe Feng**, Xiaoyi Pang, Zhifei Zhang, and Kui Ren. Towards Fairness-aware Adversarial Network Pruning. In *2023 International Conference on Computer Vision (ICCV)*, 2023 [Acceptance rate: 26.2%].
37. Qing Cao and **Yunhe Feng**. Probabilistic Error Reasoning on IoT Edge Devices. In *2023 IEEE International Conference on Edge Computing and Communications (EDGE)*, 2023 [Acceptance rate: 17%].
38. **Yunhe Feng**, Sreecharan Vanam^{*}, Manasa Cherukupally^{*}, Weijian Zheng, Meikang Qiu, and Haihua Chen. Investigating Code Generation Performance of ChatGPT with Crowdsourcing Social Data. In *47th IEEE Computer Software and Applications Conference (COMPSAC)*, 2023 [**Best Track Paper Award**, acceptance rate: 27%].
39. Zhibo Wang, Hongshan Yang, **Yunhe Feng**, Peng Sun, Hengchang Guo, Zhifei Zhang, and Kui Ren. Towards Transferable Targeted Adversarial Examples. In *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023 [Acceptance rate: 25.78%].
40. Boyuan Zhang, Jiannan Tian, Sheng Di, Xiaodong Yu, **Yunhe Feng**, Xin Liang, Dingwen Tao, and Franck Cappello. FZ-GPU: A Fast and High-Ratio Lossy Compressor for Scientific Computing Applications on GPUs. In *ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, 2023 [Acceptance rate: 22.8%, Accept].
41. **Yunhe Feng**, Pradhymna Poralla^{*}, Swagatika Dash, Kaicheng Li, Vrushabh Desai^{*}, and Meikang Qiu. The Impact of ChatGPT on Streaming Media: A Crowdsourced and Data-Driven Analysis using Twitter and Reddit. In *The 9th IEEE International Conference on Intelligent Data and Security*, 2023 [Acceptance rate: 25%].
42. **Yunhe Feng** and Chirag Shah. Has CEO Gender Bias Really Been Fixed? Adversarial Attacking and Improving Gender Fairness in Image Search. In *Proceedings of the AAAI conference on artificial intelligence (AAAI)*, 2022 [Acceptance rate: 15%, Oral Presentation].
43. Bingbing Wen, **Yunhe Feng**, Yongfeng Zhang, and Chirag Shah. ExpScore: Learning Metrics for Recommendation Explanation. In *The World Wide Web Conference (WWW)*. ACM, 2022 [Acceptance rate: 24%].

44. **Yunhe Feng** and Chirag Shah. Unifying Telescope and Microscope: A Multi-lens Framework with Open Data for Modeling Emerging Events. *Information Processing and Management (IP&M)*, 2021 [Impact factor: 6.222].
45. **Yunhe Feng**, Cheng Guo, Bingbing Wen, Peng Sun, Yufei Yue, and Dingwen Tao. EmojiCloud: a Tool for Emoji Cloud Visualization. In *The 5th International Workshop on Emoji Understanding and Applications in Social Media at 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (EMOJI@NAACL)*, 2022.
46. Bingbing Wen, **Yunhe Feng**, Yongfeng Zhang, and Chirag Shah. Towards generating robust, fair, and emotion-aware explanations for recommender systems. *arXiv preprint arXiv:2208.08017*, 2022.
47. **Yunhe Feng** and Wenjun Zhou. Work from Home During the COVID-19 Pandemic: An Observational Study Based on A Large Geo-Tagged COVID-19 Twitter Dataset (UsaGeoCov19). *Information Processing and Management (IP&M)*, 2021 [Impact factor: 6.222].
48. **Yunhe Feng**, Daniel Saelid, Ke Li, Ruoyuan Gao, and Chirag Shah. Towards Fairness-Aware Ranking by Defining Latent Groups Using Inferred Features. *International Workshop on Algorithmic Bias in Search and Recommendation at European Conference on Information Retrieval (BIAS@ECIR)*, 2021.
49. Sian Jin, Chengming Zhang, Xintong Jiang, **Yunhe Feng**, Hui Guan, Guanpeng Li, Shuaiwen Leon Song, and Dingwen Tao. COMET: A Novel Memory-Efficient Deep Learning Training Framework by Using Error-Bounded Lossy Compression. *International Conference on Very Large Data Bases (VLDB)*, 2022.
50. **Yunhe Feng**, Haoran Niu, Fanqi Wang, Susan Ivey, Jayne Wu, Hairong Qi, Raul Almeida, Shigetoshi Eda, and Qing Cao. SocialCattle: IoT-based Mastitis Detection and Control through Social Cattle Behavior Sensing in Smart Farms. *IEEE Internet of Things Journal*, 2021 [Impact factor: 9.936].
51. Jiannan Tian, Sheng Di, Xiaodong Yu, Cody Rivera, Kai Zhao, Sian Jin, **Yunhe Feng**, Xin Liang, Dingwen Tao, and Franck Cappello. cuSZ (x): Optimizing Error-Bounded Lossy Compression for Scientific Data on GPUs. *IEEE International Conference on Cluster Computing (CLUSTER)*, 2021.
52. **Yunhe Feng**, Dong Zhong, Peng Sun, Weijian Zheng, Qinglei Cao, Xi Luo, and Zheng Lu. Micromobility in Smart Cities: A Closer Look at Shared Dockless E-Scooters via Big Social Data. In *ICC 2021-2021 IEEE International Conference on Communications (ICC)*. IEEE, 2021.
53. **Yunhe Feng** and Wenjun Zhou. Seed Stocking Via Multi-Task Learning. *arXiv:2101.04333*, 2021.
54. **Yunhe Feng** and Wenjun Zhou. Is Working From Home The New Norm? An Observational Study Based on a Large Geo-tagged COVID-19 Twitter Dataset. *arXiv preprint arXiv:2006.08581*, 2020.
55. Peng Sun, Zhibo Wang, Liantao Wu, **Yunhe Feng**, Xiaoyi Pang, Hairong Qi, and Zhi Wang. Towards Personalized Privacy-Preserving Incentive for Truth Discovery in Mobile Crowdsensing Systems. *IEEE Transactions on Mobile Computing*, 2020.
56. **Yunhe Feng**, Qing Cao, Hairong Qi, and Scott Ruoti. SenCAPTCHA: A Mobile-First CAPTCHA Using Orientation Sensors. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 4(2), 2020 [10-year average acceptance rate: 18.5%, **Best Presentation, Audience Award Nomination and Judges Award Nomination @UbiComp2020**].
57. Peng Sun, Zhibo Wang, **Yunhe Feng**, Liantao Wu, Yanjun Li, Hairong Qi, and Zhi Wang. Towards Personalized Privacy-Preserving Incentive for Truth Discovery in Crowdsourced Binary-Choice Question

- Answering. In *IEEE Conference on Computer Communications (INFOCOM)*. IEEE, 2020 [Acceptance rate of 19.8%].
58. **Yunhe Feng**, Zheng Lu, Wenjun Zhou, Zhibo Wang, and Qing Cao. New Emoji Requests from Twitter Users: When, Where, Why, and What We Can Do About Them. *ACM Transactions on Social Computing (TSC)*, 3(2), April 2020.
 59. **Yunhe Feng**, Zongyao Chen, Dali Wang, Jian Chen, and Zhili Feng. DeepWelding: a Deep Learning Enhanced Approach to GTAW Using Multi-source Sensing Images. *IEEE Transactions on Industrial Informatics*, 2019 [Impact factor: 7.377].
 60. Zhibo Wang, Yijie Li, Bonan Jin, Qian Wang, **Yunhe Feng**, Yanjun Li, and Huajie Shao. AirMouse: Turning a Pair of Glasses into a Mouse in the Air. *IEEE Internet of Things Journal*, 2019 [Impact factor: 9.515].
 61. **Yunhe Feng**, Wenjun Zhou, Zheng Lu, Zhibo Wang, and Qing Cao. The World Wants Mangoes and Kangaroos: A Study of New Emoji Requests Based on Thirty Million Tweets. In *The World Wide Web Conference (WWW)*, pages 2722–2728. ACM, 2019 [Acceptance rate: 20.0%].
 62. **Yunhe Feng**, Zheng Lu, Zhonghua Zheng, Peng Sun, Wenjun Zhou, Ran Huang, and Qing Cao. Chasing Total Solar Eclipses on Twitter: Big Social Data Analytics in Once-in-a-lifetime Events. In *2019 IEEE Global Communications Conference (GLOBECOM)*. IEEE, 2019.
 63. Lu Zheng, **Yunhe Feng**, and Qing Cao. Two-level Index for Truss Community Query in Large-Scale Graph. In *2019 IEEE Global Communications Conference (GLOBECOM)*. IEEE, 2019.
 64. Peng Sun, Liantao Wu, Zhibo Wang, **Yunhe Feng**, and Zhi Wang. SCRA: Structured Compressive Random Access for Efficient Information Collection in IoT. *IEEE Internet of Things Journal*, 7(3):2356–2367, 2019.
 65. Zheng Lu, **Yunhe Feng***, Wenjun Zhou, Xiaolin Li, and Qing Cao. Inferring correlation between user mobility and app usage in massive coarse-grained data traces. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (the new publication model of UbiComp)*, 1(4):153, 2018 [* **Correspondence author**, 10-year average acceptance rate: 18.5%].
 66. **Yunhe Feng**, Zheng Lu, and Qing Cao. Secure Sharing of Private Locations through Homomorphic Bloom Filters. In *2018 IEEE 4th International Conference on Big Data Security on Cloud (BigDataSecurity)*, pages 107–113. IEEE, 2018 [**Best Paper Award**, Acceptance rate: 18.6%].
 67. **Yunhe Feng**, Zheng Lu, Wenjun Zhou, Qing Cao, and Xiaolin Li. A multi-granularity perspective for spatial profiling of mobile apps. *Information Sciences*, 430:127–141, 2018 [Impact factor: 4.832].
 68. Zheng Lu, **Yunhe Feng**, and Qing Cao. Decentralized Search for Shortest Path Approximation in Large-Scale Complex Networks. In *2017 IEEE International Conference on Cloud Computing Technology and Science (CloudCom)*, pages 130–137. IEEE, 2017 [**Best Track Paper Award**, acceptance rate: 29.4%].
 69. Qing Cao, **Yunhe Feng**, Zheng Lu, Hairong Qi, Leon M Tolbert, Lipeng Wan, Zhibo Wang, and Wenjun Zhou. Approximate cardinality estimation (ACE) in large-scale internet of things deployments. *Ad Hoc Networks*, 66:52–63, 2017 [Impact factor: 3.047].
 70. Lipeng Wan, Zhibo Wang, Zheng Lu, **Yunhe Feng**, Hairong Qi, Wenjun Zhou, and Qing Cao. Approximate and Sublinear Spatial Queries for Large-Scale Vehicle Networks. *IEEE Transactions on Vehicular Technology (TVT)*, 67(2):1561–1569, 2017 [Impact factor: 2.243].

71. Teja Kuruganti, Olufemi Omitaomu, and **others**. Real-Time Automated Health Information Technology Hazard Detection. Technical report, Oak Ridge National Lab, TN (United States), 2019.

TEACHING EXPERIENCE

Lecturer

- CSCE 5300 **Introduction to Big Data and Data Science**, University of North Texas, Fall 2025, Spring 2025, Fall 2024, Spring 2024, Fall 2023, Spring 2023, Fall 2022

Guest Lecturer

- **Introduction to AI, Neural Networks, and Deep Learning**, Two-day Lecture for NSF REU students, University of Dallas, Summer 2025
- ME 686 **Human Robot Interaction**, University of Tennessee, Knoxville, Fall 2024, Fall 2023
- CS 458/658 **Introduction to Data Mining**, University of Nevada, Las Vegas, Fall 2022
- CSS 590 **AI for Social Good**, University of Washington - Bothell, Spring 2022
- M455 **Advanced Digital Merchandising**, Indiana University Bloomington, Spring 2022, Spring 2021, Fall 2020
- M485 **Data-Driven Decisions**, Indiana University Bloomington, Spring 2020
- BAZN 557 **Text Mining**, Haslam College of Business, UTK, Fall 2019, Fall 2018

PROFESSIONAL ACTIVITIES

Conference Program Committee Members

- Program Committee (PC) for the 32nd ACM International Conference on Information and Knowledge Management (CIKM), 2026, 2025, 2024, 2023
- **Area Chair** for the 2025 IEEE International Conference on Multimedia & Expo (ICME), 2026, 2025
- Program Committee (PC) Member for International Joint Conference on Artificial Intelligence (IJCAI), 2026
- TPC for IEEE Global Communications Conference (GLOBECOM), 2026, 2025, 2024, 2023, 2022, 2021, 2020, 2019
- TPC for 2025 International World Wide Web Conference (WWW), 2026, 2025
- Program Committee (PC) for AAAI Conference on Artificial Intelligence (AAAI), 2026, 2025, 2024, 2023
- TPC for 22nd IEEE International Conference on Ubiquitous Intelligence and Computing (UIC), 2025
- TPC for IEEE International Conference on Big Data (BigData), 2025, 2024
- TPC for IEEE International Conference on Software Quality, Reliability, and Security (QRS), 2025, 2024

- TPC for IEEE International Conference on Computers, Software, and Applications (COMPSAC), 2025, 2024, 2023
- TPC for IEEE International Conference on Artificial Intelligence Testing (AI-Test), 2025, 2024
- TPC for 7th International Workshop on Dependable and Secure Machine Learning (DSML), 2024
- Program Committee (PC) Member for 2024 AAAI Undergraduate Consortium (AAAI-UC), 2024
- TPC for the IEEE 29th International Conference on Parallel and Distributed Systems (ICPADS), 2023
- Program Committee (PC) for EMNLP Industry Track, 2023
- **Program Chair** for the 8th Int. Conf. on Smart Computing and Communication (SmartCom), 2023.
- TPC for the First International Conference on AI-generated Content (AIGC), 2023
- **Web Chair** for the First IEEE International Conf. on Medical Artificial Intelligence (IEEE MedAI), 2023
- **Web Chair** for the 8th IEEE International Conference on Smart Cloud (IEEE SmartCloud), 2023
- TPC for the International AAAI Conference on Web and Social Media (ICWSM), 2022
- TPC for Intl. Workshop on Emoji Understanding and Applications in Social Media (EMOJI), 2022, 2021
- TPC for Intl. Symposium on Emerging Information Security and Applications (EISA), 2023-2020
- TPC for Intl. Conf. on High Performance Computing and Communications (HPCC), 2022, 2021, 2020

Conference Reviewer

- Reviewer for International Conference on Computer Vision (ICCV), 2025
- Reviewer for IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025, 2024
- Reviewer for International Conference on Robotics and Automation (ICRA), 2025
- Reviewer for International Conference on Pattern Recognition (ICPR), 2024
- Reviewer for The Web Conference (WWW), 2024
- Reviewer for the 17th International AAAI Conference on Web and Social Media (ICWSM), 2023
- Reviewer for content on AI for the Collaborative Institutional Training Initiative (CITI Program), 2023
- Reviewer for Conference on Empirical Methods in Natural Language Processing (EMNLP), 2023
- Reviewer for 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023
- Reviewer for International AAAI Conference on Web and Social Media (ICWSM), 2023, 2022
- Reviewer for 2022 ACM CHI Conference on Human Factors in Computing Systems (CHI), 2021
- Reviewer for 2021 IEEE Visualization Conference (VIS), 2021
- Reviewer for 2021 IEEE VR (VR), 2021

- Reviewer for American Medical Informatics Association (AMIA) Annual Symposium, 2022, 2021, 2020
- External referee for ACM SIGKDD Int'l Conf. on Knowledge Discovery & Data Mining (SIGKDD), 2019
- Reviewer for 14th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2017
- External referee for the IEEE International Conference on Data Mining (ICDM), 2016
- Reviewer for International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2016, 2019
- Reviewer for the 2016 International Conference on Information Systems (ICIS), 2016

Journal Editor

- **Associate Editor** for Smart Health Since 2025
- **Guest Editor** for Special Issue "Applications of Deep Learning Techniques" in Electronics, 2023
- **Associate Editor** for ASIS&T Information Matters (IM) Since 2021

Journal Reviewer

- Reviewer for IEEE Transactions on Dependable and Secure Computing (TDSC), 2025
- Reviewer for IEEE Transactions on Mobile Computing (TMC), 2025
- Reviewer for IEEE Access Journal, 2024, 2019
- Reviewer for IEEE Consumer Electronics Magazine, 2024
- Reviewer for IEEE Transaction on Big Data, 2024
- Reviewer for Information Processing & Management (IP&M), 2024, 2023
- Reviewer for International Journal of Human-Computer Interaction (IJHCI), 2023
- Reviewer for Information Sciences, 2023
- Reviewer for IEEE Network Magazine, 2023
- Reviewer for IEEE Internet of Things Journal, 2023, 2022
- Reviewer for IEEE Transactions on Intelligent Transportation Systems (T-ITS), 2023
- Reviewer for ACM Transactions on the Web (TWEB), 2022
- Reviewer for IEEE Transactions on Industrial Informatics (TII), 2022, 2020
- Reviewer for Journal of Information Science, 2022, 2021
- Reviewer for Journal of the Association for Information Science and Technology (JASIST), 2021
- Editorial Board Members for International Journal of Data Science (IJDS) Since 2021
- Reviewer for Information Processing & Management (IP&M), 2021
- Reviewer for Elsevier Computers & Security, 2020
- Reviewer for International Journal of Forecasting, 2019
- External referee for IEEE Transactions on Knowledge and Data Engineering (TKDE), 2018

Recent Talks and Presentations

- “*NSF/CRA NAIRR Pilot Expansion*” - Invited to participate in NSF/CRA Roundtable Discussion on AI Education at MSIs, Feb. 2026.
- “*Large Language Models for Quantum Code Generation*” - Invited to give a presentation at Workshop on AI and Quantum Computing, Jan. 2026.
- “*Building Reliable Large Language Models for Scientific Research*” - Invited to give a presentation at Argonne National Laboratory, Dec. 2025.
- “*Applying LLM and Deep Learning for Software Testing*” - Invited to give a lecture at the University of Texas at Dallas, Nov. 2025.
- “*Build Large Language Models (LLMs) for Domain Applications*” - Invited to give presentations at Data-Centric AI Executive Development: Transform Insights into Profits & Efficiency, UNT Frisco Campus, July 2025.
- “*What’s Next: Generative AI Research That Will Matter Most in the Next Decade*” - Invited to join the panel discussion at North Texas Symposium on Generative AI, Mar. 2025.
- “*Efficient Small Language Models for Edge Devices via Task-Aware Sparse Attention*” - Invited to give a lightning talk at North Texas Symposium on Generative AI, Mar. 2025.
- “*Responsible AI Lab Introduction*” - Invited to give a lightning talk at NSF CISE MSI Aspiring PI Workshop, Dec. 2024.
- “*Navigating the AI Frontier: Cultivating Responsible and Ethical AI Practices*” - Invited to join the panel discussion for the AI EmpowerED webinar, hosted by The Texas Higher Education Coordinating Board’s (THECB), Oct. 2024.
- “*Future of AI*” - Invited to join the panel discussion as a Safe AI Researcher at Old Parkland, Dallas, TX, Sep. 2024.
- “*AI In The Workspace: A Dual Perspective*” - Invited to give a talk at Southwest ASSP Chapter Professional Development Conference, Apr. 2024.
- “*Enhancing Risk Communication with Artificial Intelligence: Strategies for Proactive and Personalized Engagement*” - Invited to give a talk at Emergency Management and Disaster Science (EMDS) Colloquium, UNT College of Health and Public Service, Mar. 2024.
- “*Exploring the Frontiers of Generative AI: Opportunities and Challenges in Research and Applications*” - Invited to give a talk at Plano Public Library, Jan. 2024.
- “*Ethical Concerns and Issues in Generative AI*” - Invited to join the panel discussion of “Embedding Ethics in Data-Intensive Research” and gave a talk at 2023 NSF HDR Ecosystem Conference, Oct. 2023.
- “*How AI Impacts People*” - Invited to talk with a group of primary school students from Fraser Valley School in Canada, May 2023.
- “*The Real-World Impact of Ethics on AI*” - Invited to join the panel discussion along with industry partners from IBM, Deloitte, and USAA, Mar. 2023.

- *“Investigating Code Generation Performance of ChatGPT with Crowdsourcing Social Data”* - Invited to give a lightning talk at Day of Data Science, Mar. 2023.
- *“Recent Advances in Security and Privacy”* - Give a talk for High School Teachers at Texas CSTA Chapters Conference, Jan. 2023.
- *“Responsible Social Computing for Smart City”* - Invited to give a talk at Center for Housing and Urban Development at Texas A&M University, Oct. 2022.
- *“Towards a More Responsible World: When Artificial Intelligence, Open Data, and Usable Security Meet Each Other”* - Invited to give a seminar talk in Luddy AI Center at Indiana University Bloomington, Oct. 2022.
- *“Your Screenshot Tells More than You Think: Privacy Leakage on Social Media Screenshot ”* - Give a lightning talk at 2022 NSF Cybersecurity Summit, Oct. 2022.
- *“The Two Faces of Social Media in Big Data Analytics, Mining, and Modeling”* - Invited to give a seminar talk at the Brown Bag Meeting in the Department of Information Science at UNT, Oct. 2022.

HONORS & AWARDS

- Affiliate Faculty of the Year Award, Data Science Department, 2025
- CSE Department Teaching Excellence Award (Tenured/Tenure-Track Faculty), 2025
- IEEE Senior Member, 2025
- Best Paper Award, International Conference on Intelligent Multimedia, Networking, and Security, 2025
- Inaugural Dallas Innovates AI 75 List, "honoring the most significant people in AI in DFW," 2024
- IEEE Smart Computing Special Technical Community (SCSTC) Early Career Award, 2023
- Best Track Paper Award, IEEE COMPSAC, 2023
- Data Science Postdoctoral Fellowship, UW, 2021
- Best Presentation, Audience Award Nomination and Judges Award Nomination, UbiComp, 2020
- Student Registration Grants, IEEE Symposium on Security and Privacy (Oakland S&P), 2020
- Min H. Kao Fellowship (**The Highest Departmental Award**), UTK, 2019-2020
- The Graduate Student Senate (GSS) Travel Awards, UTK, 2019
- Gonzalez Family Awards (Outstanding Graduate Research Assistant), UTK, 2018, 2019
- Best Paper Award, IEEE BigDataSecurity, 2018
- Best Track Paper Award, IEEE CloudCom, 2017
- Finalist, The INFORMS Syngenta 2017 Crop Challenge in Analytics (**Top 5 among 600 Teams**), 2017
- EECS Department Excellence Fellowship, UTK, 2014-2015
- Outstanding Graduate Student Award, Beijing University of Technology, 2014
- Third-Prize in 14th China National Robotics Championship FIRA Simulation Competition, 2012
- Third-Prize in RoboCup (Robot World Cup) China Open 2012 Simulation 2D Group, 2012
- Outstanding Undergraduate Student Award, Beijing University of Technology, 2011

AWARDED GRANTS

- NVIDIA Academic Grant Program on Robust Generative AI, Yunhe Feng (PI) and Kewei Sha, 2025
- National Science Foundation (NSF) REU (\$465,000), Yunhe Feng (PI) and Mark Albert, 2025
- CAHSI-Google Institutional Research Program Grant (\$44,000), Yunhe Feng (PI), 2025
- Texas Christian University for Accelerating Collaborative AI Research with Shared GPU Infrastructure (\$12,000), Yunhe Feng (PI), 2025
- Department of Energy (DoE) AI4Science (\$62,502), Yunhe Feng (PI), 2025
- Two Microsoft Accelerate Foundation Models Research Grants (\$20,000 and \$25,000), Yunhe Feng (PI), 2023-2025
- Department of Energy (DoE) AI4Science (\$15,000), Yunhe Feng (PI), 2024
- National Institutes of Health (NIH) R56 (\$547,020), Adam Yang (PI) and Yunhe Feng (Co-I), 2024
- Google Cloud Research Credits (\$5,000), Yunhe Feng, 2024
- UNT CENG-COS Seed Grant (\$10,000), Yunhe Feng and Zacchaeus Compson, 2023
- UW Strategic Research Fund (SRF) (\$4,000), Yunhe Feng, 2022
- UW-Microsoft Azure Cloud Computing Credits (\$20,000), Yunhe Feng (PI) and Chirag Shah, 2021
- NSF-funded XSEDE Startup Allocation (\$1,600), Yunhe Feng, 2021
- Google & Harvard Global Health Institute COVID-19 Research Credits (\$9,000), Yunhe Feng, 2020
- Kaggle's Open Data Research Grant Award (\$2,000), Yunhe Feng, 2020

MEDIA COVERAGE

- Google's 'CEO' Image Search Gender Bias Hasn't Really Been Fixed [[UW NEWS](#)] [[ACM TECHNEWS](#)] [[AAAS EurekAlert!](#)]
- Innovation Fueled by AI [[UNT Research Magazine](#)]
- AI in the Classroom [[UNT Research Magazine](#)]
- Why Isn't There a Sarcasm Emoji? [[Financial Times](#)] [[Yahoo! Finance](#)] [[Business Insider](#)]
- The Algorithm Shows Which New Emoji Twitter Users Want Most [[TNW](#)] [[News Break](#)]
- 'Sarcasm' among most requested emojis according to UT study [[WBIR-TV](#)] [[Video](#)]

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