

Huimin ZENG

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EDUCATION

University of Illinois at Urbana-Champaign

Graduate Research Assistant

Champaign, U.S.A

Aug. 2021 - Present

- **Advisor:** Prof. Dr. Dong Wang
- **Relevant Courses:** Social Sensing; Data Mining; Advanced Topics in NLP

Technical University of Munich

Master of Science in Computer Science; GPA: 1.3/1.0; Ranking: Top 3%

Munich, Germany

Sep. 2018 - Jul. 2021

- **Relevant Courses:** Machine Learning (Top 5%); Introduction to Deep Learning (Top 10%)
- **Master Thesis:** Floating Point Soundness in Neural Network Verification **SRILab @ ETH**

University of California, San Diego

Master's Exchange Program in Computer Science and Engineering; GPA 4.0/4.0

La Jolla, U.S.A

Jan. 2020 - Sep. 2020

- **Relevant Courses:** Pattern Recognition (Top 10%); Learning Algorithms; Convex Optimization; Data Modeling

Tongji University

Bachelor of Engineering in Robotics and Mechatronics; GPA: 4.52/5.0 (90.24/100.0); Ranking: Top 10%

Shanghai, China

Sep. 2014 - Aug. 2018

- **Relevant Courses:** Linear Algebra (Top 5%); Probabilistic Theory (Top 10%); Robotics (Top 3%)
- **Bachelor Thesis:** Development for a Concept of a Real-time Communication System with Chatbot-Integration @ **BMW**

SELECTED PUBLICATIONS

- **Federated Recommendation via Hybrid Retrieval Augmented Generation**
Huimin Zeng, Zhenrui Yue, Qian Jiang, Dong Wang
Accepted by the IEEE International Conference on Big Data (BigData) 2024
- **Fair Federated Learning Models via Biased Vision-Language Models**
Huimin Zeng, Zhenrui Yue, Yang Zhang, Lanyu Shang, Dong Wang
Accepted by the Findings of the 62nd Annual Meeting of the Association for Computational Linguistics (ACL Findings) 2024
- **Fair Sequential Recommendation without User Demographics**
Huimin Zeng, Zhankui He, Zhenrui Yue, Julian McAuley, Dong Wang
Accepted by the 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR) 2024
- **Mitigating Demographic Bias of Federated Learning Models via Robust-Fair Domain Smoothing**
Huimin Zeng, Zhenrui Yue, Qian Jiang, Yang Zhang, Lanyu Shang, Ruohan Zong, Dong Wang
Accepted by the 44th IEEE International Conference on Distributed Computing Systems (ICDCS) 2024
- **Open-Vocabulary Federated Learning via Multimodal Prototyping**
Huimin Zeng, Zhenrui Yue, Dong Wang
Accepted by the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2024
- **Manipulating Out-Domain Uncertainty Estimation in Deep Neural Networks via Targeted Clean-Label Poisoning**
Huimin Zeng, Zhenrui Yue, Yang Zhang, Lanyu Shang, Dong Wang
Accepted by the 32nd ACM International Conference on Information and Knowledge Management (CIKM) 2023
- **On Adversarial Robustness of Demographic Fairness in Face Attribute Recognition**
Huimin Zeng, Zhenrui Yue, Lanyu Shang, Yang Zhang, Dong Wang
Accepted by the International Joint Conference on Artificial Intelligence (IJCAI) 2023
- **Zero- and Few-Shot Event Detection via Prompt-Based Meta Learning**
Zhenrui Yue, Huimin Zeng, Mengfei Lan, Heng Ji, Dong Wang
Accepted by the 61st Annual Meeting of the Association for Computational Linguistics (ACL) 2023
- **MetaAdapt: Domain Adaptive Few-Shot Misinformation Detection via Meta Learning**
Zhenrui Yue, Huimin Zeng, Yang Zhang, Lanyu Shang, Dong Wang
Accepted by the 61st Annual Meeting of the Association for Computational Linguistics (ACL) 2023
- **Fairness-aware Training of Face Attribute Classifiers via Adversarial Robustness**
Huimin Zeng, Zhenrui Yue, Ziyi Kou, Yang Zhang, Lanyu Shang, Dong Wang
Accepted by Elsevier Knowledge-Based Systems (KBS), 2023
- **On Attacking Out-Domain Uncertainty Estimation in Deep Neural Networks**
Huimin Zeng, Zhenrui Yue, Yang Zhang, Ziyi Kou, Lanyu Shang, Dong Wang
Accepted by the International Joint Conference on Artificial Intelligence (IJCAI) 2022
- **Boosting Demographic Fairness of Face Attribute Classifiers via Latent Adversarial Representations**
Huimin Zeng, Zhenrui Yue, Lanyu Shang, Yang Zhang, Dong Wang
Accepted by the IEEE International Conference on Big Data (BigData) 2022

- **Unsupervised Domain Adaptation for COVID-19 Information Service with Contrastive Adversarial Domain Mixup**
Huimin Zeng, Zhenrui Yue, Ziyi Kou, Lanyu Shang, Yang Zhang, Dong Wang
Accepted by the IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM) 2022
- **QA Domain Adaptation using Hidden Space Augmentation and Self-Supervised Contrastive Adaptation**
Zhenrui Yue*, Huimin Zeng*, Ziyi Kou, Lanyu Shang, Dong Wang
Accepted by the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2022
- **Domain Adaptation for Question Answering via Question Classification**
Zhenrui Yue, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
Accepted by the International Conference on Computational Linguistics (COLING) 2022
- **Contrastive Domain Adaptation for Early Misinformation Detection: A Case Study on COVID-19**
Zhenrui Yue, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
Accepted by the ACM International Conference on Information and Knowledge Management (CIKM) 2022
- **Defending Substitution-Based Profile Pollution Attacks on Sequential Recommenders**
Zhenrui Yue, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
Accepted by the ACM Conference on Recommender Systems (RecSys) 2022
- **Certified Defense via Latent Space Randomized Smoothing with Orthogonal Encoders**
Huimin Zeng, Jiahao Su, Furong Huang
<https://arxiv.org/abs/2108.00491>
- **Adversarial Examples Created Equal? A Learnable Weighted Minimax Risk for Robustness under Non-uniform Attacks**
Huimin Zeng*, Chen Zhu*, Tom Goldstein, Furong Huang
Accepted by the Association for the Advancement of Artificial Intelligence (AAAI) 2021
- **Black-Box Adversarial Attacks on Sequential Recommender Systems via Data-Free Model Extraction**
Zhenrui Yue*, Zhankui He*, Huimin Zeng, Julian McAuley
Accepted by the ACM Conference on Recommender Systems (RecSys) 2021

WORK EXPERIENCE

Software Development Intern

Project: A real-time communication software with Chatbot integration

BMW AG, Germany

Feb. 2018 - Sep. 2018

Machine Learning Research Intern

Project: Domain-generalized machine learning framework for semantic segmentation

Robert Bosch LLC., U.S.A

May. 2023 - Aug. 2023

TEACHING EXPERIENCE

Teaching Assistant

Lecture: Introduction to Database

University of Illinois at Urbana-Champaign, U.S.A

Aug. 2022 - Present

Teaching Assistant

Lecture: Introduction to Deep Learning

Technical University of Munich, Germany

Apr. 2019 - Aug. 2019

AWARDS

2022: UIUC Conference Travel and Presentation Award
2021: Bosch AIoT Scholarship, Robert Bosch GmbH
2018: Scholarship of German National Academic Foundation
2017: Tongji Scholarship of Excellence
2017: Tongji Scholarship for Social Practice
2016: Tongji Scholarship of Excellence
2015: Tongji Scholarship of Excellence

MISCELLANEOUS

- **Programming Languages:** Python, C++
- **Libraries:** PyTorch, Scikit-Learn, Numpy
- **Languages:** English, German
- **Service:** ICLR 2023, ASONAM 2023, AAAI 2024