Yue, Zhenrui

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Education

University of Illinois Urbana-Champaign   **Champaign, IL**
Ph.D. in Cognitive Science & Language Processing   *Aug 2021 – Present*

- Advisor: Prof. Dong Wang
- Research Interests: Natural Language Processing, Recommender Systems & Information Retrieval
- Courses: Advanced NLP, ML Security & Privacy, Deep Gen. & Dyn. Models, Math Models of Language, Computer Vision etc.

Technische Universität München   **Munich, Germany**
M.Sc. in Robotics, Cognition, Intelligence   *Apr 2019 – May 2021*

- Thesis: Question Answering under Domain Shift at ETH Zurich
- Exchange Year (2019 - 2020) at UC San Diego with Max Weber Scholarship
- Courses: Intro to AI, Machine Learning, Deep Learning, Cognitive System, Multiple View Geometry, Robotics, Motion Planning etc.

Technische Universität München   **Munich, Germany**
B.Sc. in Mechanical Engineering   *Oct 2015 – Mar 2019*

- Track: Mechatronics and Information Technology
- Thesis: Development of a Concept for Visualizing Variation Points in Industrial PLC Software

Selected Publication

Universally Transferable Sequential Recommendation via Vector Quantized Meta Learning

- **Zhenrui Yue**, Zhankui He, Huimin Zeng, Yang Zhang, Julian McAuley, Dong Wang
- *In Submission*

Evidence-Driven Retrieval Augmented Response Generation for Online Misinformation

- **Zhenrui Yue**, Huimin Zeng, Yimeng Lu, Lanyu Shang, Yang Zhang, Dong Wang
- *In Submission*

Linear Recurrent Units for Sequential Recommendation

- **Zhenrui Yue***, Yueqi Wang*, Zhankui He, Huimin Zeng, Julian McAuley, Dong Wang
- *WSDM 2024*

LlamaRec: Two-Stage Recommendation using Large Language Models for Ranking

- **Zhenrui Yue**, Sara Rabhi, Gabriel Moreira, Dong Wang, Even Oldridge
- *PGAI@CIKM 2023*

Manipulating Out-Domain Uncertainty Estimation in Deep Neural Networks via Targeted Clean-Label Poisoning

- Huimin Zeng, **Zhenrui Yue**, Yang Zhang, Lanyu Shang, Dong Wang
- *CIKM 2023*

Zero- and Few-Shot Event Detection via Prompt-Based Meta Learning

- **Zhenrui Yue**, Huimin Zeng, Mengfei Lan, Heng Ji, Dong Wang
- *ACL 2023*

MetaAdapt: Domain Adaptive Few-Shot Misinformation Detection via Meta Learning

- **Zhenrui Yue**, Huimin Zeng, Yang Zhang, Lanyu Shang, Dong Wang
- *ACL 2023*

Contrastive Domain Adaptation for Early Misinformation Detection: A Case Study on COVID-19

- **Zhenrui Yue**, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
- *CIKM 2022*

On Attacking Out-Domain Uncertainty Estimation in Deep Neural Networks

- Huimin Zeng, **Zhenrui Yue**, Yang Zhang, Ziyi Kou, Lanyu Shang, Dong Wang
- *IJCAI 2022*

Domain Adaptation for Question Answering via Question Classification

- **Zhenrui Yue**, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
- *COLING 2022*

Defending Substitution-Based Profile Pollution Attacks on Sequential Recommenders

- **Zhenrui Yue**, Huimin Zeng, Ziyi Kou, Lanyu Shang, Dong Wang
- *RecSys 2022*

Contrastive Domain Adaptation for Question Answering using Limited Text Corpora

- **Zhenrui Yue**, Bernhard Kratzwald, Stefan Feuerriegel
- *EMNLP 2021*

Black-Box Attacks on Sequential Recommenders via Data-Free Model Extraction

- **Zhenrui Yue***, Zhankui He*, Huimin Zeng, Julian McAuley
- *RecSys 2021*

BERT4NILM: A Bidirectional Transformer Model for Non-Intrusive Load Monitoring

- **Zhenrui Yue**, Camilo Requena Witzig, Daniel Jorde, Hans-Arno Jacobsen
- *NILM@SenSys 2020*

Work

University of Illinois Urbana-Champaign — **Urbana, IL**
Research / Teaching Assistant — *Aug 2021 – Present*

- Proposed novel methods, performed experiments and prepared publications for machine learning and AI research
- Assisted in the teaching and coordination of multiple courses, provided academic support to individual students

NVIDIA Corporation — **Remote, IL**
Research Intern — *May 2023 – Aug 2023*

- Engage in research on recommender systems, conduct experiments and evaluate the performance of existing methods
- Design and implement large language models (LLMs) for user preference understanding and next-item recommendation

Siemens AG — **Munich, Germany**
Intern (Part Time) — *Dec 2018 – Sep 2019*

- Developed a web crawler to extract online product specs and a purchasing database with access interface
- Implemented a purchasing process application for product selection, entry filtering and order document generation

Teaching

IS 327: Concepts of Machine Learning — **Champaign, IL**
University of Illinois Urbana-Champaign — *Aug 2023 – Present*

IS 206: Introduction to Database — **Champaign, IL**
University of Illinois Urbana-Champaign — *Aug 2022 – Dec 2022*

IS 203: Analytical Fndts Info Problems — **Champaign, IL**
University of Illinois Urbana-Champaign — *Jan 2022 – May 2022*

Awards

2022 **SIGIR & RecSys Travel Award**
2021 **Bosch AIoT Scholarship**
2020 **E-fellows.net Scholarship**
2019 **Max Weber Academic Exchange Scholarship**
2018 **Audi Campus Ambassador Scholarship**
2017 **Max Weber Program Scholarship**
2016 **Shiyu Scholarship**

Miscellaneous

Languages: Native in Mandarin and Cantonese, proficient in English and German, beginner in Spanish
Coding: Python, C/C++; experiences with PyTorch, TensorFlow, Git, Bash, AWS, Google Cloud
Review: ACL Rolling Review 2023 - 2024, AAAI 2023 - 2024, WWW 2024, PGAI@CIKM 2023, ASONAM 2023, KnowledgeNLP@AAAI 2023, COLING 2022, ACM TKDD, IEEE TBD, IEEE SmartGrid