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## Education

#### University of Illinois Urbana-Champaign

Champaign, IL

Ph.D. in Cognitive Science & Language Processing

Aug 2021 - Present

- 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

- 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 Oct 2015 - Mar 2019

B.Sc. in Mechanical Engineering Track: Mechatronics and Information Technology

· Courses: Mathematics, Mechanics, Control Theory, Simulation, Intro to CS, Software Engineering, Algo & Data Structures etc.

# Work

## University of Illinois Urbana-Champaign

Champaign, IL

Aug 2021 - Present

- Research / Teaching Assistant
- 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

**Google Deepmind** Mountain View, CA

Student Researcher May 2024 - Present · Conduct research in retrieval augmented generation (RAG) with Gemini models, experiment and evaluate existing methods

Propose and implement a novel in-context learning framework for RAG and iterative RAG to improve knowledge-intensive NLP

NVIDIA Remote. IL

Research Intern May 2023 - Aug 2023

- · Engaged in research on recommender systems, conduct experiments and evaluate the performance of current approaches
- Designed and implemented large language model-based re-ranking (LlamaRec) for preference understanding and recommendation

Siemens Munich, Germany

Software Intern 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

#### Selected Publication

# LlavaRec: Sequential Recommendation with Large Multimodal Models

- Zhenrui Yue, Huimin Zeng, Yueqi Wang, Julian McAuley, Dong Wang
- · In Submission

## Retrieval Augmented Fact Verification by Synthesizing Contrastive Arguments

- Zhenrui Yue, Huimin Zeng, Lanyu Shang, Yifan Liu, Yang Zhang, Dong Wang

# Evidence-Driven Retrieval Augmented Response Generation for Online Misinformation

- Zhenrui Yue, Huimin Zeng, Yimeng Lu, Lanyu Shang, Yang Zhang, Dong Wang
- NAACL 2024

## **Linear Recurrent Units for Sequential Recommendation**

- Zhenrui Yue\*, Yueqi Wanq\*, Zhankui He, Huimin Zeng, Julian McAuley, Dong Wanq
- 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

# **Teaching**

Champaign, IL
Spring 2024
Fall 2023
Fall 2022
Spring 2022
2022
2021
2020
2019
2018
2017
2016

**Languages:** Native in Mandarin and Cantonese, proficient in English and German, beginner in Spanish **Coding:** Python, C/C++; experiences with PyTorch, Jax, TensorFlow, Docker, Git, Bash, AWS, Google Cloud **Review:** AAAI 2023 - 2025, ARR 2023 - 2025 (ACL, EMNLP, NAACL etc.), WWW 2024 - 2025, ICLR 2025, ASONAM 2023 - 2024, COLING 2022, ACM TIST, ACM TKDD, IEEE SmartGrid, IEEE TBD, etc.