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Research Interests

o Language-based Reasoning, Large Language Models, Explainable Artificial Intelligence, Natural Language Processing (NLP)

Employment History

Salesforce AI	Palo Alto, USA
Research Scientist	Jan 2024 - nov
o Focus: Auto-evaluation, AI feedback for model development	
 LLM-as-Judge: Build a multifaceted generative judge model that gen [Blog][Paper] CRM Benchmarking: Develop the world's first LLM benchmark for CRM 	
models for business applications [Blog][Leaderboard]	
Meta FAIR	New York, USA
 Research Intern Topic: Multimodal Chain-of-Thought Reasoning Managers: Dr. Maryam Fazel-Zarandi, Dr. Asli Celikyilmaz 	May 2023 - Aug. 202
Amazon	Palo Alto, USA
Applied Scientist Intern	May 2022 - Nov. 202
 Topic: Faithful Chain-of-Thought Reasoning Managers: Dr. Zhengyang Wang, Dr. Zheng Li 	
Microsoft	Remote, USA
Research Intern	May 2021 - Aug. 202
 Topic: Knowledge-Enhanced Large Scale Language Model Pre-training Manager: Dr. Dinghan Shen 	
Tencent AI Lab	Shenzhen, China
Research Intern, NLP Group	Jun. 2018 - Sep. 201
 Topic: Inductive Knowledge Representation Learning Manager: Dr. Jialong Han 	
Academic History	
 University of Southern California, Los Angeles, US Advisor: Prof. Xiang Ren, Prof. Muhao Chen, 	Ph.D. in Computer Science Aug. 2019 - Dec. 202
Sun Yat-sen University, Ghuangzhou, China o Advisor: Prof. Rong Pan	M.S. in Computer Science Sep. 2016 - Jun. 201
Sun Yat-sen University, Ghuangzhou, China • GPA: 3.8/4.0	B.S. in Computer Science Sep. 2012 - Jun. 201

Publications (Creation Google Scholar Profile)

Direct Judgement Preference Optimization

- o Peifeng Wang, Austin Xu, Yilun Zhou, Caiming Xiong, Shafiq Joty
- o preprint

DOMINO: A Dual-System for Multi-step Visual Language Reasoning

- Peifeng Wang, Olga Golovneva, Armen Aghajanyan, Xiang Ren, Muhao Chen, Asli Celikyilmaz, Maryam Fazel-Zarandi
- o preprint

SCOTT: Self-Consistent Chain-of-Thought Distillation

- o Peifeng Wang, Zhengyang Wang, Zheng Li, Yifan Gao, Bing Yin, Xiang Ren
- ACL 2023 Outstanding Paper Award

PINTO: Faithful Language Reasoning Using Prompt-Generated Rationales

- Peifeng Wang, Aaron Chan, Filip Ilievski, Muhao Chen, Xiang Ren
- o ICLR 2023. A short version is accepted by TL4NLP and TSRML Workshop at NeurIPS, 2022

Contextualized Scene Imagination for Generative Commonsense Reasoning

Peifeng Wang, Jonathan Zamora, Junfeng Liu, Filip Ilievski, Muhao Chen, Xiang Ren
 ICLR 2022

Do Language Model Perform Generalizable Commonsense Inference?

o Peifeng Wang, Filip Ilievski, Muhao Chen, Xiang Ren

• ACL 2021 (Findings)

Learning to Deceive Knowledge Graph Augmented Models via Targeted Perturbation

• Mrigank Raman, Siddhant Agarwal, **Peifeng Wang**, Aaron Chan, Hansen Wang, Sungchul Kim, Ryan Rossi, Handong Zhao, Nedim Lipka, Xiang Ren

o ICLR 2021

Connecting the Dots: A Knowledgeable Path Generator for Commonsense Question Answering

o Peifeng Wang, Nanyun Peng, Filip Ilievski, Pedro Szekely, Xiang Ren

• EMNLP 2020 (Findings)

Scalable Multi-Hop Relational Reasoning for Knowledge-Aware Question Answering

o Yanlin Feng, Xinyue Chen, Bill Yuchen Lin, Peifeng Wang, Jun Yan, Xiang Ren

o EMNLP 2020

When Hearst Is not Enough: Improving Hypernymy Detection from Corpus with Distributional Models

- o Changlong Yu, Jialong Han, Peifeng Wang, Yangqiu Song, Hongming Zhang, Wilfred Ng and Shuming Shi
- o EMNLP 2020

Logic Attention Based Neighborhood Aggregation for Inductive Knowledge Graph Embedding

o Peifeng Wang, Jialong Han, Chenliang Li, Rong Pan

o AAAI 2019

Incorporating GAN for Negative Sampling in Knowledge Representation Learning

- o Peifeng Wang, Shuangyin Li, Rong Pan
- o AAAI 2018

Academic Activities

- o Program Committee Member & Reviewer: ACL-23, AAAI-23, WSDM-23, EMNLP-22, etc.
- o Tutorial: Generalizable Commonsense Reasoning. AAAI 2023.
- o Invited Talk: Generative Commonsense Reasoning. The Alan Turing Institute, 2021.

Mentoring

- o Jonathan Zamora (2022), Undergraduate Student at UCSD
- o Junfeng Liu (2022), Master's Student at USC

o Mrigank Raman (2021), Undergraduate Student at IIT Delhi

Awards

- o ACL Outstanding Paper Award, 2023
- o Annenberg Fellowship Award, University of Southern California, 2019.
- o Excellent Student Scholarship, Sun Yat-sen University, 2018.
- o First Grade Scholarship, Sun Yat-sen University, 2016,2018.