

Peifeng Wang

Research Scientist, Meta, US

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Research Interests

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

Employment History

Meta GenAI

Research Scientist

Menlo Park, USA

Apr 2025 - now

- Focus: LLM-Reasoning, LLM Post-Training

Salesforce AI

Research Scientist

Palo Alto, USA

Jan 2024 - Apr 2025

- Focus: LLM-Reasoning, LLM Agent, AI feedback for model development
- LLM-as-Judge: Build a multifaceted generative judge model that generalizes cross various evaluation tasks [Blog][Paper]
- CRM Benchmarking: Develop the world's first LLM benchmark for CRM to assess the efficacy of generative AI models for business applications [Blog][Leaderboard]

Meta FAIR

Research Intern

New York, USA

May 2023 - Aug. 2023

- Topic: Multimodal Chain-of-Thought Reasoning
- Managers: Dr. Maryam Fazel-Zarandi, Dr. Asli Celikyilmaz

Amazon

Applied Scientist Intern

Palo Alto, USA

May 2022 - Nov. 2022

- Topic: Faithful Chain-of-Thought Reasoning
- Managers: Dr. Zhengyang Wang, Dr. Zheng Li

Microsoft

Research Intern

Remote, USA

May 2021 - Aug. 2021

- Topic: Knowledge-Enhanced Large Scale Language Model Pre-training
- Manager: Dr. Dinghan Shen

Tencent AI Lab

Research Intern, NLP Group

Shenzhen, China

Jun. 2018 - Sep. 2018

- 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. 2023

Sun Yat-sen University, Ghuangzhou, China

- Advisor: Prof. Rong Pan

M.S. in Computer Science

Sep. 2016 - Jun. 2019

Sun Yat-sen University, Ghuangzhou, China

- GPA: 3.8/4.0

B.S. in Computer Science

Sep. 2012 - Jun. 2016

Publications (Google Scholar Profile)

Direct Judgement Preference Optimization

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

SCOTT: Self-Consistent Chain-of-Thought Distillation

- 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
- *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?

- 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
- *ICLR 2021*

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

- Peifeng Wang, Nanyun Peng, Filip Ilievski, Pedro Szekely, Xiang Ren
- *EMNLP 2020 (Findings)*

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

- Yanlin Feng, Xinyue Chen, Bill Yuchen Lin, Peifeng Wang, Jun Yan, Xiang Ren
- *EMNLP 2020*

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

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

Logic Attention Based Neighborhood Aggregation for Inductive Knowledge Graph Embedding

- Peifeng Wang, Jialong Han, Chenliang Li, Rong Pan
- *AAAI 2019*

Incorporating GAN for Negative Sampling in Knowledge Representation Learning

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

Academic Activities

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

Mentoring

- Jonathan Zamora (2022), Undergraduate Student at UCSD
- Junfeng Liu (2022), Master's Student at USC
- Mrigank Raman (2021), Undergraduate Student at IIT Delhi

Awards

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