

Peifeng Wang

Ph.D. Student, University of Southern California, US

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Research Interests

- Machine Common Sense (MCS), Question Answering (QA), Knowledge Graph (KG), Explainable Artificial Intelligence (XAI), Natural Language Generation (NLG), Natural Language Processing (NLP)

Academic History

University of Southern California, Los Angeles, US

- Advisor: Prof. Xiang Ren, Prof. Muhao Chen,

Ph.D. in Computer Science

Aug. 2019 - 2023 (Expected)

Sun Yat-sen University, Ghuangzhou, China

- Advisor: Prof. Rong Pan

M.S. in Computer Science

Sep. 2016 - Jun. 2019

University of Illinois at Urbana-Champaign, Urbana, USA

- Advisor: Prof. Kevin Chen-Chuan Chang

Visiting Scholar

Sep. 2018 - Jan. 2019

Sun Yat-sen University, Ghuangzhou, China

- GPA: 3.8/4.0

B.S. in Computer Science

Sep. 2012 - Jun. 2016

Employment History

Meta FAIR Labs

Research Intern

- Managers: Dr. Maryam Fazel-Zarandi, Dr. Asli Celikyilmaz

New York, USA

May 2023 - Present

Information Science Institution - USC

Research Assistant

- Topic: Language-based Reasoning, Machine Common Sense
- Advisors: Prof. Xiang Ren, Prof. Muhao Chen

Los Angeles, USA

Sep. 2019 - Present

Amazon Search

Research Intern

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

Palo Alto, USA

May 2022 - Nov. 2022

Microsoft Azure AI

Research Intern

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

Remote, USA

May 2021 - Aug. 2021

Tencent AI Lab

Research Intern, NLP Group

- Topic: Inductive Knowledge Representation Learning
- Manager: Dr. Jialong Han

Shenzhen, China

Jun. 2018 - Sep. 2018

Publications (Google Scholar Profile)

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

- 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.