Zhao Haiteng

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Research Interest

I'm a second-year Ph.D. student in machine learning interested in a variety of areas, including but not limited to **Representation learning**, **Machine learning**, **Robustness**, **Knowledge reasoning**, and **Natural language processing**.

Education

Peking University, Beijing, China   2020 – Present

Ph.D. student in Intelligent Science and Technology, Advisor: Zhihong Deng, expected July 2025

Peking University, Beijing, China   2016 – 2020

B.S. in Psychology, Advisor: Hang Zhang

Experience

Peking University   2020.9 – Present

Ph.D. Student   Advisor: Prof. Zhihong Deng

Analyze domain adaptation from the perspective of mutual information.

Investigate knowledge graph reasoning for dynamic and elastic knowledge graph.

Nanyang Technological University   2021.6 – Present

Collaboration   Advisor: Prof. Luu Anh Tuan

Work on certified robustness for non-Lp norm perturbations via randomized smoothing.

Explore the robustness of language models in reasoning, especially against perturbation with knowledge.

Microsoft Research Asia   2022.1 – Present

Research Intern   Mentor: Shuming Ma

Explore multilingual continue learning for language model pre-training, enabling pre-training on dynamically increasing corpora.

Design novel graph transformers that can benefit from the model depth.

Publications

Haiteng Zhao, Chang Ma, Qinyu Chen, Zhi-Hong Deng, "Domain Adaptation via Maximizing Surrogate Mutual Information", IJCAI 2022 (Long presentation)

Haiteng Zhao*, Chang Ma*, Xinshuai Dong*, Anh Tuan Luu, Zhi-Hong Deng, Hanwang Zhang, "Certified Robustness Against Natural Language Attacks by Causal Intervention", ICML 2022

Skills

- Programming Languages: Python(Pytorch,Tensorflow) > C++ == C
- Platform: Linux
- Development: Web
- Others: LaTex, MarkDown

Honors and Awards

Award of Scientific Research   Dec. 2018