

ZHAO HAITENG

✉ zhaohaiteng@pku.edu.cn · ☎ (+86) 188-012-21603 ·

RESEARCH INTEREST

I'm a third-year Ph.D. student in machine learning interested in a variety of areas, including but not limited to **Natural Language Processing, Graph Machine learning, Robustness, Knowledge reasoning, and AI for Science.**

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

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 – 2022.10

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.

The University of Hong Kong 2022.1 – 2022.10

Research Intern Advisor: Lingpeng Kong and Qi Liu

Explore instruction-based zero-shot learning for predicting molecule properties.

Examine the possibility of replacing MSA augmentation in protein models with a general retrieval method.

PUBLICATIONS

GIMLET: A Unified Graph-Text Model for Instruction-Based Molecule Zero-Shot Learning Haiteng Zhao, Shengchao Liu, Chang Ma, Hannan Xu, Jie Fu, Zhi-Hong Deng, Lingpeng Kong, Qi Liu. **bioRxiv preprint**

Retrieved Sequence Augmentation for Protein Representation Learning Chang Ma, Haiteng Zhao, Lin Zheng, Jiayi Xin, Qintong Li, Lijun Wu, Zhihong Deng, Yang Lu, Qi Liu, Lingpeng Kong. **arXiv preprint**

Are More Layers Beneficial to Graph Transformers? Haiteng Zhao, Shuming Ma, Dongdong Zhang, Zhi-Hong Deng, Furu Wei. **ICLR 2023**

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

Domain Adaptation via Mutual Information Maximization Haiteng Zhao, Chang Ma, Qinyu Chen, Zhihong Deng. **IJCAI 2022 (Long presentation)**

SKILLS

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

HONORS AND AWARDS

Award of Scientific Research	Dec. 2018
Award of Merit Student	Dec. 2022
Guorui Scholarship	Dec. 2022