

Hongkun Hao

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Research Interest

- 📌 **Large Language Model:** Multi-modal Large Language Models, Speech Large Language Models, Video Understanding Large Language Models, etc.
- 📌 **Natural Language Processing:** Neural Machine Translation, Open-Ended Text Generation, etc.

Education

- 2022 – present 📌 **Master of Engineer, Shanghai Jiao Tong University** Computer Science.
GPA: 3.92/4.00 Supervisor: Rui Wang
- 2018 – 2022 📌 **Bachelor of Engineer, Shanghai Jiao Tong University** Computer Science.
GPA: 91.7/100

Internship

- 2024.01 – present 📌 **ByteDance** E-Commerce Group, Machine Learning Engineer Intern
Shanghai, China
Topic: application of video understanding large language models in e-commerce business.
- 2023.04 – 2023.11 📌 **Microsoft Research Asia** Natural Language Computing Group, Research Intern
Beijing, China. Mentors: Long Zhou and Shujie Liu
Topic: Boosting Large Language Model for Speech Synthesis
- 2021.12 – 2023.01 📌 **Tencent AI Lab** Natural Language Processing Center, Research Intern
Shenzhen, China. Mentor: Lemao Liu
Topic: Rethinking Translation Memory Augmented Neural Machine Translation

Publications

* denotes co-first authors

Conference Proceedings

- 📌 **Rethinking Translation Memory Augmented Neural Machine Translation** [Paper] [Code]
Hongkun Hao, Guoping Huang, Lemao Liu, Zhirui Zhang, Shuming Shi, Rui Wang
In *Findings of the 61st Annual Meeting of the Association for Computational Linguistics*. **ACL 2023**.
- 📌 **Penalty Decoding: Well Suppress the Self-Reinforcement Effect in Open-Ended Text Generation** [Paper] [Code]
Wenhong Zhu, **Hongkun Hao**, Rui Wang
In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*. **EMNLP 2023**.
- 📌 **Q-Refine: A Perceptual Quality Refiner for AI-Generated Image** [Paper]
Chunyi Li, Haoning Wu, Zicheng Zhang, **Hongkun Hao**, Kaiwei Zhang, Lei Bai, Xiaohong Liu, Xiongkuo Min, Weisi Lin, Guangtao Zhai
In *the 2024 IEEE International Conference on Multimedia and Expo*. **ICME 2024**.

- **CLEAN-EVAL: Clean Evaluation on Contaminated Large Language Models** [Paper]
Wenhong Zhu, **Hongkun Hao**, Zhiwei He, Yunze Song, Yumeng Zhang, Hanxu Hu, Yiran Wei, Rui Wang, Hongyuan Lu
In *Findings of the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics. NAACL 2024*.

Preprints

- **Boosting Large Language Model for Speech Synthesis: An Empirical Study** [Paper]
Hongkun Hao, Long Zhou, Shujie Liu, Jinyu Li, Shujie Hu, Rui Wang, Furu Wei
- **Can Watermarks Survive Translation? On the Cross-lingual Consistency of Text Watermark for Large Language Models** [Paper]
Zhiwei He*, Binglin Zhou*, **Hongkun Hao**, Aiwei Liu, Xing Wang, Zhaopeng Tu, Zhuosheng Zhang, Rui Wang
- **Is Cognition and Action Consistent or Not: Investigating Large Language Model's Personality** [Paper]
Yiming Ai, Zhiwei He, Ziyin Zhang, Wenhong Zhu, **Hongkun Hao**, Kai Yu, Lingjun Chen, Rui Wang
- **Improving Open-Ended Text Generation via Adaptive Decoding** [Paper]
Wenhong Zhu, **Hongkun Hao**, Zhiwei He, Yiming Ai, Rui Wang
- **WavLLM: Towards Robust and Adaptive Speech Large Language Model** [Paper]
Shujie Hu, Long Zhou, Shujie Liu, Sanyuan Chen, **Hongkun Hao**, Jing Pan, Xunying Liu, Jinyu Li, Sunit Sivasankaran, Linqun Liu, Furu Wei

Skills

Programming Languages ■ Python, C/C++, SQL, Shell, LaTeX, ...

Packages ■ PyTorch, fairseq, Transformers, NumPy, ...

Services

Reviewer ■ ACL Rolling Review (2024), ICME (2024), EMNLP (2023), NLPCC (2022, 2023), CCL (2022, 2023)

Teaching Assistant ■ Internet-based Information Extraction Technologies (CS 3307 at SJTU, Fall 2022)

Honors and Awards

2023 ■ Optiver Excellent Student Scholarship

2022 ■ Best Bachelor Thesis Award
Shanghai Jiao Tong University Outstanding Graduates

2019, 2020, 2021 ■ Academic Excellence Scholarship

2019 ■ The first prize of Mathematics Competition of Chinese College Student