

Yuzhen Huang

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Research Interests: I am primarily focused on large language models, particularly in advancing their reasoning capabilities and multimodal understanding. To achieve this, my research interests lie in: (1) enhancing reasoning and planning abilities through self-improvement and RL techniques, (2) improving the architecture and training methods of multimodal models to strengthen their understanding across multiple modalities and (3) developing reliable evaluation methods for language models.

EDUCATION

The Hong Kong University of Science and Technology, Hong Kong SAR, China.

Feb. 2024 - present

– **Ph.D in Computer Science**

– Advisor: Prof. Junxian He

Shanghai Jiao Tong University, Shanghai, China

Sep. 2019 – Jul. 2023

– **B.Eng. in Computer Science**

– *GPA: 3.89/4.3, Score: 90.27/100*

RESEARCH PROJECTS

- [1] Compression Represents Intelligence Linearly
 - **Investigate the linear correlation between compression and intelligence in LLMs.**
 - Provide evidence for the belief that superior compression is indicative of greater intelligence.
 - Propose compression efficiency serves as an unsupervised and reliable metric to assess LLMs' abilities.
 - Conference on Language Modeling (COLM), 2024.
- [2] C-Eval: A Multi-Level Multi-Discipline Chinese Evaluation Suite for Foundation Models
 - **The first comprehensive Chinese evaluation suite for LLMs.**
 - Conduct a thorough evaluation of the most advanced LLMs.
 - Over 9.8M downloads on Hugging Face and more than 100 models on leaderboard.
 - NeurIPS (Datasets and Benchmarks track), 2023

PUBLICATIONS

* denotes equal contribution

- [1] **Y Huang***, J Zhang*, Z Shan, J He. Compression Represents Intelligence Linearly
 - Conference on Language Modeling (COLM), 2024.
- [2] **Y Huang***, Y Bai*, Z Zhu, J Zhang, J Zhang, T Su, J Liu, C Lv, Y Zhang, Y Fu, M Sun, J He. C-Eval: A Multi-Level Multi-Discipline Chinese Evaluation Suite for Foundation Models
 - NeurIPS (Datasets and Benchmarks track), 2023

PAST EMPLOYMENT

Research Intern, Tencent

Nov. 2023 – Jan. 2024

Mentor: Zifei Shan

PROFESSIONAL ACTIVITIES

Reviewer: NeurIPS 2024, NLPCC 2024, ICLR 2025

TEACHING

Teaching Assistant, The Hong Kong University of Science and Technology
COMP 5212 Machine Learning

Fall 2024

STANDARD TESTS

[1] **TOEFL** – 102