

KEYA HU

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EDUCATION

Shanghai Jiao Tong University(SJTU)

2021.9 - now

B.S. in Science, Zhiyuan College, ACM Honors Class

PAPERS

Combining Induction and Transduction for Abstract Reasoning

Wen-Ding Li*, Keya Hu*, Carter Larsen, Yuqing Wu, Simon Alford, Caleb Woo, Spencer M. Dunn, Hao Tang, Wei-Long Zheng, Yewen Pu, Kevin Ellis

ICLR, 2025

Key words: Abstract Reasoning, Large Language Model, Data Generation

Code Repair with LLMs gives an Exploration-Exploitation Tradeoff

Hao Tang, Keya Hu, Jin Peng Zhou, Sicheng Zhong, Wei-Long Zheng, Xujie Si, Kevin Ellis

NeurIPS, 2024

Key words: Program Synthesis, Code Repair, Explore-exploit Tradeoff, Large Language Model

Contrastive Self-Supervised EEG Representation Learning for Emotion Classification

Keya Hu, Ren-Jie Dai, Wen-Tao Chen, Hao-Long Yin, Bao-Liang Lu, and Wei-Long Zheng

EMBC, 2024, oral

Key words: Self-supervised Learning, Electroencephalography (EEG), Affective Computing

RESEARCH EXPERIENCE

Visiting Research Intern

2024.1- 2025.1

Recursion and Learning Lab, Cornell University, NY, United States

Advisor: Kevin Ellis

- Efficient Program Synthesis with LLM, Human-Level Abstraction Reasoning
- Two papers submitted in under nine months, one accepted, one under review

Research Assistant

2023.9- 2024.7

Brain-like Computing and Machine Intelligence Lab, SJTU, SH, China

Advisor: Wei-Long Zheng and Bao-Liang Lu

- EEG-signals for Emotion Recognition, Self-Supervised Learning

TEACHING EXPERIENCE

Teaching Assistant

Data Structures

2023 Spring

Teaching Assistant

Programming Design

2022 Fall

AWARDS AND SCHOLARSHIPS

Best Paper Award in ARC-Prize 2024

Award for best paper in Abstract Reasoning and Corpus(ARC) Kaggle competition

2024

National Scholarship

2024

Award for 0.2% of students, the highest national-level scholarship.

Zhiyuan Honors Scholarship

2021, 2022, 2023, 2024

Award for top students majoring in science

Longhu Scholarship

2023

Award for top students majoring in Computer science