

# KEYA HU

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## EDUCATION

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**Shanghai Jiao Tong University(SJTU)**

2021.9 - now

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

## PAPERS

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**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

*submit to 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

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**Visiting Research Intern**

2024.1- now

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

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**Teaching Assistant**

Data Structures

2023 Spring

**Teaching Assistant**

Programming Design

2022 Fall

## AWARDS AND SCHOLARSHIPS

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**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