# **KEYA HU**

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#### **EDUCATION**

## Shanghai Jiao Tong University(SJTU)

2021.9 - now

Bachelor of Computer Science, Zhiyuan College, ACM Honors Class

#### RESEARCH PROJECT

## ARC inductive reasoning

2023.11- now

- Employed diverse input formats like matrices, object descriptions, and images for the Large Language Model (LLM), offering prior knowledge on image transformation inspired by how humans tackle ARC problems, aiming to harness the capabilities of LLM's better.
- Different formats showed complementarity and prior knowledge helped to generate more accurate and precise hypotheses.
- **Key words:** Abstract Reasoning and induction

## Self-supervised EEG Representation Learning for Emotion Classification

2023.10- now

- Used several state-of-the-art contrastive learning methods to train a robust feature encoder of raw electroencephalography (EEG) signals to recognize humans' emotions.
- Most methods showed an improvement of over 5% when less data was used while the method that utilized the temporal information performed the best.
- Key words: Self-supervised learning, Electroencephalography (EEG), Affective computing

## Data distillation for Longtail Dataset

2023.9- 2023.12

- Used the data distillation method to balance the distribution of long-tailed data.
- Increased the accuracy by 4% to 10% with less than 30% of the original data.
- Key words: Data distillation, Long-tailed data

#### RESEARCH EXPERIENCE

## SJTU Center for Brain-like Computing and Machine Intelligence Laboratory 2023.9- now

- Advisor: Wei-Long Zheng and Bao-Liang Lu
- Role: Research Assistant

## TEACHING EXPERIENCE

• Teaching Asissitant, Data Structures

2023 Spring

• Teaching Asissitant, Programming Design

2022 Fall

## AWARDS AND SCHOLARSHIPS

### 2021, 2022, 2023 Zhiyuan Honors Scholarship

Award for top students majoring in science

### 2023 Longhu Scholarship

Award for top students majoring in Computer science