

# Runmao Yao, Undergraduate

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## Education

Sep 2021 – Present    📖 **Undergraduate of Software Engineering, Tsinghua University, China**

- GPA
  - Overall GPA: 3.78 (Ranking: 23/78)
  - Year 1: GPA 3.55 (Ranking: 40/81)
  - Year 2: GPA 3.90 (Ranking: 15/79)
  - Year 3: GPA 3.96 (Ranking: 10/78)

## Research Experiences

Apr 2023 – Oct 2023    📖 **Weather Forecasting (supervisor: Mingsheng Long)**

- The research group aims to utilize deep learning models to predict meteorological conditions, with a focus on wind speed, wind direction, and atmospheric pressure.
- I spent several months familiarizing myself with the fundamental concepts of deep learning, reading relevant papers shared by senior members in the research group, and gaining an understanding of the concept of optical flow.

Oct 2023 – Nov 2023    📖 **Time Series Modeling (supervisor: Mingsheng Long)**




- The research group initially produced a paper titled "SimMTM: A Simple Pre-Training Framework for Masked Time-Series Modeling". Subsequently, the group developed a new deep learning model called "iTransformer". Currently, the team is in the process of integrating the new model into the SimMTM framework.
- I have sequentially read three papers: "MAE", "SiamMAE" and "SimMTM". I have gained an understanding of the fundamental ideas behind SimMTM and conducted experiments with the iTransformer on various datasets to assess its performance.

Jan 2024 – Present    📖 **Multi-Agent Reinforcement Learning (supervisor: Yi Wu)**

- I have just joined the research group and I am currently working on a coding test. The test involves using the MAPPO algorithm to train agents in the Overcooked environment, enabling them to successfully deliver onion soup five times.

## Awards and Honors

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- Jul 2022     **Outstanding Admission Volunteer**, Tsinghua University.
- Sep 2022     **Sports Excellence Award**, Tsinghua University.
- Sep 2023     **Comprehensive Excellence Award**, Tsinghua University.