

# Muyan Weng

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## EDUCATION

**The Shanghai Jiao Tong University(SJTU)**

Shanghai, China

*B.S. in Computer Science and Technology(IEEE Pilot Class)*

Sept 2021 - Jun 2025

- **GPA:** 3.80/4.30
- **Relevant Courses:** Linear Algebra, Optimization, Data Structure, Machine Learning, Principle and Methods of Program Design, Probability and Statistics, Artificial Intelligence Principles and Applications
- **Honors:** Third Prize Shanghai Jiao Tong University School-level Scholarship(2022)

## RESEARCH EXPERIENCE

**Re-ranking Model Based on List-wise Behavior History**

Shanghai, China

*Supervisor: Prof. Weinan Zhang, APEX Data and Knowledge Management Lab, SJTU*

Nov 2023 - Aug 2024

- Designed a re-ranking model efficiently utilize users' list-wise behavior history to optimize recommendations.
- Incorporated positive and negative feedback to model and align user behavior patterns with current candidates via contrastive learning.
- Factored in the temporal evolution of user interests to enhance model adaptability.
- Paper "Re-ranking with List-level Historical Feedback" is submitted to KDD in August 2024 (Co-first author).

**Enhancing Recommender systems via LLMs**

Shanghai, China

*Supervisor: Prof. Weinan Zhang, APEX Data and Knowledge Management Lab, SJTU*

Sep 2023 - Nov 2023

- Aimed to utilize the Large Language Models to enhance the performance of recommender systems.
- Mainly worked on item clustering to reduce computational load and enable the system to scale effectively to handle large-scale datasets.
- Paper "[Efficient and Deployable Knowledge Infusion for Open-World Recommendations via Large Language Models](#)" is submitted to TORS in August 2024.

**Explaining Neural Networks by Using Robust Interactions**

Shanghai, China

*Supervisor: Prof. Quanshi Zhang, XAI Lab, SJTU*

Feb 2023 - Aug 2024

- Aimed to extract faithful interactions between input variables encoded by a deep neural network.
- Develop a new method to extract noise-robust interactions encoded by a DNN. Our interaction ensures the stability and consistency of explanations.
- Paper "Explaining Neural Networks by Using Robust Interactions" is under submission.

## INTERNSHIP EXPERIENCE

**Enhancing the Serendipity of Homepage Recommendation via LLMs**

Beijing, China

*Algorithm Research Intern, Taobao and Tmall Group, Alibaba Group Holding Limited*

Jul 2024 - Present

- Aimed to enhance the serendipity of homepage recommendations on Taobao through the reasoning capabilities of large language models and external knowledge, using various methods to continuously optimize user experience, improve recommendation accuracy, and increase user retention rates.
- Assisted in constructing the complete link, conducted experimental comparisons with the baseline model, and helped write the paper.
- Paper will be released next year.

## COMPUTER SKILLS

- **Programming:** Python, C++, Pytorch
- **English ability:** CET4:601, CET6: 570, TOEFL:99
- **Github:** <https://github.com/Ray0202>
- **Personal Website:** <https://ray0202.github.io/>