Curriculum Vitae/Resume
Applicant: Yufan Wu

EDUCATION

University of Michigan   **Ann Arbor, MI**
B.S.E., Computer Science and Engineering   *Expected Aug. 2024*
Minor in Mathematics
GPA: 3.69 / 4.00

Shanghai Jiao Tong University   **Shanghai, China**
B.E., Electrical and Computer Engineering.   *Expected Aug. 2024*
GPA: 3.67 / 4.00

RESEARCH EXPERIENCE

Hi-ToM: A Benchmark for Evaluating Higher-Order Theory of Mind Reasoning   **Ann Arbor, MI**
Yinghui He, **Yufan Wu***, Yilin Jia, Rada Mihalcea, Yulong Chen, Naihao Deng*   *May 2023 – Jul. 2023*
- Accepted by ICML 2023 ToM Workshop and EMNLP Findings.
- Developed *Hi-ToM*, a Higher Order Theory of Mind benchmark, to explore recursive reasoning on others' beliefs.
- Utilize *Hi-ToM* to evaluate the higher-order ToM ability of language models.
- Demonstrated through experiments that current Large Language Models have limitations in higher-order ToM tasks, offering insights for future NLP advancements.

Feedback on Feedback   **Ann Arbor, MI**
Supervised by Professor Lu Wang   *Nov. 2023 – Present*
- Investigated the accuracy of language models in mathematical problem-solving, identifying issues with initial feedback.
- Developed the 'Base-Critic-Refiner' framework aimed at enhancing model performance through refined feedback mechanisms.
- Focused on iterative improvement of language models' responses in mathematical contexts.

Analysis of The Byzantine Generals Problem on Time-Varying Graphs   **Shanghai, China**
Supervised by Professor Li Jin   *May 2022 – Sep. 2022*
- Formulated a game of the Byzantine generals on a sequence of time-varying communication graphs to simulate the situation when messaging errors occur.
- Predict the final result by Nash Equilibrium Theory to calculate the fault tolerance in different web structures.
- Adjusted the decision model to prevent error message transmission.

LEADERSHIP EXPERIENCE

Debate Team of Shanghai Jiao Tong University   **Shanghai, China**
Leader   *Sep.2021 – Jul. 2022*
- Contacted with other teams to organize training matches.
- Held regular seminars to improve members' abilities.
- Led the team to participate in major competitions such as SJTU Joint Cup, World Cup and World Championship.

HONOR & AWARDS

Dean's List .... **Outstanding GPA**
University of Michigan .... *Jan. 2023*
Mathematical Contest in Modelling .... **Finalist Award (2%)**
Consortium for Mathematics and its Applications .... *May 2022*
Undergraduate Merit Scholarship .... **Outstanding Performance**
Shanghai Jiao Tong University .... *Oct. 2021*

INTERNSHIP

Research Assistant .... **Zero One Everything Technology**
Multimodal Foundation Model .... *Oct. 2023 – Present*

TEACHING EXPERIENCE

Teaching Assistant .... **Shanghai Jiao Tong University**
Physics II .... *Sep. 2021 – Aug. 2022*
Student Advisor .... **Shanghai Jiao Tong University**
UM-SJTU Joint Institute Advising Center .... *Sep. 2021 – Aug. 2022*

SELECTED COURSE WORK

University of Michigan
EECS 445: Intro to Machine Learning (A),
EECS 598: Machine Learning Theory (A+)
EECS 376: Foundations of Computer Science (A)
MATH 412: Discrete Mathematics (A+)

Shanghai Jiao Tong University
EECS280: Programming & Elem. Data Structures (A+)
MATH285 /MATH286: Honors Mathematics (A+)

SKILLS

Computer: Excel, Python, C++, R, MATLAB, LATEX
Language: Proficient in Chinese and English