

Natalia (Shuixiunan) Zhang

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Education

- Major: Computer Science and Technology
- GPA: 3.83/4.00, rank 43/90
- Yao Class, IIIS, Tsinghua University, 2021-now
- Hangzhou Xuejun High school, 2018-2021
- Hangzhou Wenlan Middle School, 2015-2018

Research

- Stabilizing Offline Reinforcement Learning with Imitation-Based Assistant Rewards, Natalia Zhang & Xinqi Wang, Instructed by Simon Du in University of Washington, 2024.09-now
- LLM-Assisted Dataset Generation with Consistency Evaluation for RLHF, Instructed by Dr.Zhixuan Fang in Tsinghua University, 2024.10-now
- Multi-Agent Reinforcement Learning from Human Feedback, Natalia Zhang & Xinqi Wang & Runlong Zhou etc., Instructed by Prof. Simon Du in University of Washington and Prof. Sham Kakade in Harvard, 2024.03-2024.08 (co-first work, ICLR 2025 under review)
- Reward Optimization of Imitation Learning in Offline Multi-Agent Games from Human Feedback, Instructed by Zhixuan Fang in Tsinghua University, 2024.06-2024.08
- Research on Communication in Multi-Agent Reinforcement Learning, Instructed by Dr.Zhixuan Fang in Tsinghua University, 2023.09-2024.01
- Research on a Self-Developed Information Eliciting Model, Natalia Zhang & Weiliang Wang, Instructed by Dr.Zhixuan Fang in Tsinghua University, 2023.04-2023.07

- "New Star" Academic Program on Real-Time Translucent Neural Rendering, Di An & Natalia Zhang & Shuzhen Li, Instructed by Dr.Kun Xu in Department of Computer Science, 2022.07-2022.10

Experience

- Research Intern at the University of Washington, 2024
- Host of the IIS Student Festival, 2023
- Finance Manager of School Softball Team, 2022-2023
- Address on IIS Opening Ceremony, 2021
- Monitor of Yao Class 14, 2021-2022

Course Projects Selected

- Implementation and Improvement on a 3D Hierarchical Torus Network Topology and its Corresponding Deadlock-Free Routing Algorithm, Shuixiunan Zhang & Ran Tao, 2023
 - Distributed Computation on Matrix Multiplication with Concurrency, Shuixiunan Zhang & Xingchen Miu, 2023
 - Implementation of RISC-V Processor Model with High Performance Cache, Shuixiunan Zhang, 2022
 - Implementation of a Group of Machine Learning Model Including Random Forest and XGBoost, 2022
 - Implementation of Stochastic Algorithms for 2D Ising Model, 2022
 - Multimedia Processing Based on FFmpeg, 2022
 - Implementation on a Tax-Free Stock Market Model, 2022
 - Implementation of a Distributed Database Model with Computing and Storage Nodes, 2022
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Honor and Awards

- Comprehensive Scholarship in Tsinghua University, 2024
- Comprehensive Scholarship in Tsinghua University, 2023
- Scholarship of Institute for Interdisciplinary Information Core Technology, First Prize, 2022
- Chinese Physics Olympiad, Second Prize, 2019
- Tsinghua Physics Camp, First Prize, 2019
- National English Proficiency Competition for Middle School Students, Second Prize, 2018
- National Oral English Innovative Proficiency Contest for Middle School Students, Second Prize, 2018

Skills

- Programming: C/C++, Python, Pytorch, Matlab, Latex, HTML, SQL, etc.
 - English: Toefl Best Score 109, Speaking 26
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