

# Ruizhe Shi

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## Education

### Tsinghua University, Beijing, China

Undergraduate at Special Pilot Class in Computer Science (*Yao class*)

- Major: Computer Science and Technology
- Minor: Chinese Language and Literature

Sept. 2021 – Present

GPA: 3.93/4.00

Institute for Interdisciplinary Information Sciences

School of Humanities

### University of Washington, Seattle, USA

Research Visitor at Paul G. Allen School of Computer Science

Feb. 2024 – July 2024

## Publications & Manuscripts

(\* indicates equal contribution.)

[5] (ICLR 2025) Ruizhe Shi\*, Runlong Zhou\*, Simon S. Du. “The Crucial Role of Samplers in Online Direct Preference Optimization”.[\[link\]](#)

[4] (NeurIPS 2024) Ruizhe Shi, Yifang Chen, Yushi Hu, Alisa Liu, Hannaneh Hajishirzi, Noah A. Smith, Simon S. Du. “Decoding-Time Language Model Alignment with Multiple Objectives”.[\[link\]](#)

[3] (ICML 2024) Chenhao Lu, Ruizhe Shi\*, Yuyao Liu\*, Kaizhe Hu, Simon S. Du, Huazhe Xu. “Rethinking Transformers in Solving POMDPs”.[\[link\]](#)

[2] (ICLR 2024) Ruizhe Shi\*, Yuyao Liu\*, Yanjie Ze, Simon S. Du, Huazhe Xu. “Unleashing the Power of Pre-trained Language Models for Offline Reinforcement Learning”.[\[link\]](#)

[1] (NeurIPS 2023) Yanjie Ze, Yuyao Liu\*, Ruizhe Shi\*, Jiaxin Qin, Zhecheng Yuan, Jiashun Wang, Huazhe Xu. “H-InDex: Visual Reinforcement Learning with Hand-Informed Representations for Dexterous Manipulation”.[\[link\]](#)

## Research Experiences

### University of Washington (Remote)

Mentored by Runlong Zhou

Feb. 2025 – Present

alignment theory

### Princeton University (Remote)

Mentored by Dr. Yue Wu

Dec. 2024 – Feb. 2025

alignment theory

### University of Washington (Seattle, USA)

Supervised by Prof. Simon S. Du

Dec. 2023 – Sept. 2024

alignment theory

### Tsinghua University (Beijing, China)

Supervised by Prof. Huazhe Xu

Mar. 2023 – Jan. 2024

decision-making & transformer

## Awards & Honors

### First-level Comprehensive Scholarship

Tsinghua University

Nov. 2024

top scholarship

### Yao Award (Silver Medal)

IIIS, Tsinghua University

Sept. 2024

top scholarship [\[link\]](#); 3 students institute-wide

### Jiang Nanxiang Scholarship

Tsinghua University

Nov. 2023

top scholarship; 1 student institute-wide

### China National Endeavor Scholarship

Beijing Education Bureau

Oct. 2022

1 student institute-wide

### First Prize in National High School’s Mathematics Competition, Jiangsu Region

Chinese Mathematical Society

Oct. 2020

top 20 province-wide

## Service

### Conference Reviewer

NeurIPS 2024 (Top Reviewer [\[link\]](#)), ICLR 2025, AISTATS 2025, ICML 2025

### Yao Class Seminar Co-organizer

Co-organize weekly research seminars [\[link\]](#)

Fall 2024 – Present

Tsinghua University

### Teaching Assistant

Natural Language Processing

Fall 2024

Tsinghua University

### Voluntary Drop-in Tutoring

Tutor freshmen in basic courses

Oct. 2022 – July 2024

Tsinghua University

I have **157** hours of officially recorded volunteering work.

## Technical Skills

**Programming Skills:** Python, C/C++, L<sup>A</sup>T<sub>E</sub>X, Scala, Matlab.

**Language Skills:** Chinese Mandarin (native), English (TOEFL 104 [R30/L26/S23/W25], GRE 327+3.5 [V157/Q170]).