

# Ruizhe Shi

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## Education

### Tsinghua University, Beijing, China

Sept. 2021 – Present

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

GPA: 3.93/4.00

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

### University of Washington, Seattle, USA

Feb. 2024 – July 2024

Research Visitor at Paul G. Allen School of Computer Science

## 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

### Princeton University (Remote)

Dec. 2024 – Present

Mentored by Dr. Yue Wu

alignment theory

### University of Washington (Seattle, USA)

Dec. 2023 – Sept. 2024

Supervised by Prof. Simon S. Du

alignment theory

### Tsinghua University (Beijing, China)

Mar. 2023 – Jan. 2024

Supervised by Prof. Huazhe Xu

decision-making & transformer

## Awards & Honors

### First-level Comprehensive Scholarship

Nov. 2024

Tsinghua University

top scholarship

### Yao Award (Silver Medal)

Sept. 2024

IIIS, Tsinghua University

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

### Jiang Nanxiang Scholarship

Nov. 2023

Tsinghua University

top scholarship; 1 student institute-wide

### China National Endeavor Scholarship

Oct. 2022

Beijing Education Bureau

1 student institute-wide

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

Oct. 2020

Chinese Mathematical Society

top 20 province-wide

## Service

### Conference Reviewer

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

### Yao Class Seminar Co-organizer

Fall 2024 – Spring 2025

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

Tsinghua University

### Teaching Assistant

Fall 2024

Natural Language Processing

Tsinghua University

## Voluntary Drop-in Tutoring

*Tutor freshmen in basic courses*

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

**Oct. 2022 – July 2024**

*Tsinghua University*

## Core Courses

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**Mathematics & Theory:** Calculus, Linear Algebra, Abstract Algebra, Introduction to Complex Analysis, Probability and Statistics, Basic Topology, Introduction to Optimization Theory, Algorithm Design, Physics of Information, Theory of Computation, Game Theory, Economics and Computation;

**Coding & AI:** Introduction to Programming, Type-safe Modern System Practice, Introduction to Artificial Intelligence, Mathematics for Artificial Intelligence, Machine Learning, Deep Learning, Artificial Intelligence Principles, Computer Vision, Natural Language Processing, AI+X Computing Acceleration;

**Linguistics & Literature:** Introduction to Linguistics (ongoing), Literary Theory (ongoing), Literature and Cultural Theory, Literary Masterpieces and Writing Training, Chinese Modern Poetry.

## Technical Skills

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**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]).