Nuoya Xiong

Email: nuoyaxiong@gmail.com

EDUCATION

- **Tsinghua University** — Beijing, China
  IIIS GPA: 3.93/4.00 (top 15 in Yao Class) — *Sep 2020 - Present*

- **Bashu Middle School** — Chongqing, China
  High School — *Sep 2017 - Jun 2020*

EXPERIENCE

- **Research Assistant** — Visiting Student
  University of Washington — *Feb 2023-Aug2023*
  - **Research Interest**: Deep Learning Theory, Optimization
  - **Mentor**: Simon S. Du

- **Research Assistant** — Intern
  MSRA — *Feb 2022-Aug 2022*
  - **Research Interest**: Online Learning, Causal Inference
  - **Mentor**: Wei Chen

RESEARCH EXPERIENCES AND PUBLICATIONS (* STANDS FOR EQUAL CONTRIBUTION)

- Combinatorial Pure Exploration of Causal Bandits, *ICLR 2023*.
  Nuoya Xiong, Wei Chen.

- Provably Safe Reinforcement Learning with Step-wise Violation Constraints, *Neurips 2023*.
  Nuoya Xiong, Yihan Du, Longbo Huang.

- A General Framework for Sequential Decision-Making under Adaptivity Constraints, *preprint 2023*.
  Nuoya Xiong, Zhaoran Wang, Zhuoran Yang

- Combinatorial Causal Bandits without Graph Skeleton, *preprint 2023*.
  Feng Shi*, **Nuoya Xiong***, Wei Chen

- How Over-Parameterization Slows Down Gradient Descent in Matrix Sensing: The Curses of Symmetry and Initialization, *Manuscript, 2023*
  Nuoya Xiong, Lijun Ding, Simon S. Du.

GRADES

- **Toefl**: 107 (Speaking 24)
- **GRE**: 326
- **Calculus(1),(2)**: A+
- **Linear Algebra**: A+
- **Machine Learning**: A+
- **Causal Inference and statistical learning**: A+
- **Probability and Statistics**: A
- **programming basic**: A
- **Introduction to Computer Science**: A
- **Artificial Intelligence: Principles and Technologies**: A
- **Theory of Computation**: A
- **Game Theory**: A
- **Data Structure in Real World**: A

Awards

- Yao Award (Bronze Metal) (top 9 in Yao Class) - Sep, 2023
- Tsinghua University Academic Excellence Scholarship - May, 2022
- Tsinghua University Literature and Art Excellence Scholarship - May, 2022
- Tsinghua University Comprehensive scholarship (top 10 % in Yao Class) - May, 2021
- Tsinghua University Love Reading Scholarship - May, 2021
- China National Mathematical Olympiad gold medal (training team) (29th in China) - Nov, 2018
- China National Mathematical Olympiad gold medal (training team) (top 60 in China) - Nov, 2019