

# Runqian (Ray) Wang

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## Education

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### **Massachusetts Institute of Technology, Cambridge, MA, Class of 2026**

- Related Courses Taken: 6.5250 Distributed Algorithms (Graduate Level), 18.06 Linear Algebra, 6.1900 Intro to Assembly and C, 6.1010 Fundamentals of Programming, 18.01 Calculus, 18.02 Multivariable Calculus, 6.100A Intro to Python; All of the above are completed with final grade A
- Related Courses Currently Taking: 6.3702 Introduction to Probability (Graduate Level), 6.8300 Advances in Computer Vision (Graduate Level), 6.1220 Design and Analysis of Algorithms, 6.3900 Intro to Machine Learning

### **Princeton International School of Mathematics and Science, Princeton, NJ, Class of 2022**

- SAT: 1560, TOEFL: 115, Unweighted GPA: 4.0/4.0

## Internships

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### **Microsoft Research Asia Research Intern**

2023

- Conducting computer vision research for 3 months

## Experience & Leadership

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### **Undergraduate Research at MIT Comp Sci & Artificial Intelligence Lab (CSAIL)**

2022-2023

- Conducting machine learning research at CSAIL Vision group on a MIT-IBM-Boston Scientific collaborative project

### **Jane Street First Year Trading and Technology Program**

2023

### **Harvard-MIT Math Tournament Software Team Staff**

2022-2023

### **MIT BeaverWorks Medlytics Program**

2020

- Studied medical data processing and machine learning techniques for data analysis

### **Program in Algorithmic and Combinatorial Thinking**

2020

- Studied randomized algorithms and related mathematical tools

### **High School Student Government**

2018-2021

- Freshman Representative (9th grade), Vice President (11th grade), Prefect (12th grade)

### **Club Leader for High School Computing Olympiad Club**

2019-2021

### **Club Leader for High School Mock Trial Club**

2021

## Awards

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### **MIT BattleCode AI Programming Contest 2<sup>nd</sup> Place**

2023

- Entered final tournament as 1<sup>st</sup> seed out of 456 teams (1321 competitors) worldwide and ranked 2<sup>nd</sup> in the finals

### **Terminal East Coast Regional Competition 3<sup>rd</sup> Place**

2023

- Won 3<sup>rd</sup> place among all east coast college contestants in an AI game programming contest

**USA Computing Olympiad Training Camp Qualifier** 2021

- Ranked top 14 among all US high school students in algorithmic design and competitive programming

**Carnegie Mellon Informatics and Math Competition Programming 4th Place** 2021

**INSPO Research & Innovation Competition Silver Medal (Top 6% of all NA applicants)** 2020

**Zero Robotics ISS Finalists (top 12 out of 200+ teams worldwide)** 2019

**FTC Robotics Competition State Level Qualifier** 2020

**PeddieHacks Hackathon 3<sup>rd</sup> place** 2020

## **Publications**

Chen, C., **Wang, R.**, Bajaj, C. and Öktem, O., 2022. An efficient algorithm to compute the X-ray transform. International Journal of Computer Mathematics, 99(7), pp.1325-1343.

**Wang, R.**, 2019, October. Incorporating Frame Image and Frame Sequence into Ensemble Learning Networks to Improve the Accuracy of Physical Bullying-Detecting Model. In IOP Conference Series: Materials Science and Engineering (Vol. 612, No. 5, p. 052047). IOP Publishing.

**Wang, R.**, 2021, March. Comparing Grover's Quantum Search Algorithm with Classical Algorithm on Solving Satisfiability Problem. In 2021 IEEE Integrated STEM Education Conference (ISEC) (pp. 204-204). IEEE.

## **Skills**

Python, C++, Java, HTML, Swift, R, LaTeX, Github, terminal, Jupyter Notebook, VS Code, PyTorch, Office