

Brandon Wang

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EDUCATION

Massachusetts Institute of Technology (MIT)

2024

- S. B. Computer Science and Molecular Biology *Cambridge, MA, GPA: 5.0/5.0*
- Advanced coursework: Information Theory (6.441), Distributed Algorithms (6.852), Advanced Algorithms (6.854), Immunology (7.23), Evolution and Genomics of Infectious Disease (1.881), Algorithms for Machine Learning (18.408 S23), Multiagent Learning (6.S890 F23)

AWARDS/HONORS

William Lowell Putnam Competition N1 (Rank 12)

2022

International Math Olympiad Gold Medal (Rank 15 individual, top national team)

2019

USA Math Olympiad Winner (Rank 7 (2018), 1 (2019), 1 (2020))

2018–2020

USA Computing Olympiad Finalist (Top 24)

2017

NCTE Certificate of Superior Writing (National Council of Teachers of English, top 210)

2019

PUBLICATIONS

3. M. Ghaffari, **B. Wang**. Lenzen's Distributed Routing Generalized: A Full Characterization of Constant-Time Routability. *56th ACM Symposium on Theory of Computing (STOC '24)*, 2024.
2. H. Shi, Y. He, Y. Zhou, J. Huang, K. Maher, **B. Wang**, Z. Tang, S. Luo, P. Tan, M. Wu, Z. Lin, J. Ren, Y. Thapa, X. Tang, K. Chan, B. Deverman, H. Shen, A. Liu, J. Liu, and X. Wang. Spatial Atlas of the Mouse Central Nervous System at Molecular Resolution. *Nature*, 2023. <https://doi.org/10.1038/s41586-023-06569-5>.
1. P. Loh, H. Cai, F. Campos, J. Choi, T. Chu, D. Dijour, B. Huffman, M. Jaffer, Z. Scully, **B. Wang**, L. Wang, P. Wang. Crowd-sourced Contact Tracing. 2021. [US Patent 11950163](#).

TEACHING

MIT 18.C06 (Linear Algebra and Optimization) | Teaching Assistant

Fall 2023

Math Olympiad Program | Instructor (prev. Head Teaching Assistant)

June 2021, 2022, 2024

- Taught classes to top high school mathematicians
- (Previously: Coordinated grading efforts across team of teaching assistants to provide feedback and scores on student exams)

WORK EXPERIENCE

Jane Street Capital | Quantitative Trading Intern

May 2023–August 2023

- Investigated strategies to maximize returns in various markets

New York, NY

Personalis, Inc. | Bioinformatics Engineering Intern

June 2021–August 2021

- Devised and implemented novel algorithms (Python, Bash) for analyzing Homologous Repair Deficiency in tumor samples

NOVID | Technical Advisor (Backend Engineering)

June 2020–December 2021

- Devised high-performance algorithms (C++, Python, Protocol Buffers) that process network data for over 100,000 users
- Analyzed user analytics to inform strategy and iOS design

Math Olympiad Program | Virtual RA/Events Co-Coordinator

July 2020

- Organized social activities and ensured participant well-being at virtual program

ACTIVITIES AND SERVICE

MIT Lecture Series Committee (LSC) | *Projectionist, Webmaster*

February 2022–December 2023

- Handling technical and logistical details of putting on cinema-quality movies

USA Computing Olympiad | *Problem Staff*

January 2023–

USA Math Olympiad | *Problem Writer/Reviewer*

November 2020–