

Brandon Wang

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EDUCATION

Massachusetts Institute of Technology (MIT)

Expected Graduation: 2024

- Candidate for M.Eng., B.S. 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)

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

H. Shi, Y. He, Y. Zhou, J. Huang, **B. Wang**, Z. Tang, P. Tan, M. Wu, Z. Lin, J. Ren, Y. Thapa, X. Tang, A. Liu, J. Liu, and X. Wang (2022). Spatial Atlas of the Mouse Central Nervous System at Molecular Resolution. [bioRxiv:2022.06.20.496914](https://doi.org/10.1101/2022.06.20.496914).

P. Loh, H. Cai, F. Campos, J. Choi, T. Chu, D. Dijour, B. Huffman, M. Jaffer, Z. Scully, **B. Wang**, L. Wang, P. Wang (2021). Crowd-sourced Contact Tracing. [US Patent Application 2021/0400428](https://www.uspto.gov/patent/applications/2021/0400428).

TEACHING

MIT 18.C06 (Linear Algebra and Optimization) <i>Teaching Assistant</i>	Fall 2023
Math Olympiad Program <i>Head Teaching Assistant</i>	June 2021, 2022
• Graded and provided feedback on student papers and taught class to top high school mathematicians	

EXPERIENCE

Jane Street Capital <i>Quantitative Trading Intern</i>	May 2023–August 2023
Personalis, Inc. <i>Bioinformatics Engineering Intern</i>	June 2021–August 2021
• Devised and implemented novel algorithms (Python, Bash) for analyzing Homologous Repair Deficiency in tumor samples	
NOVID <i>Technical Advisor (Backend Engineering)</i>	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 <i>Virtual RA/Events Co-Coordinator</i>	July 2020
• Organized social activities and ensured participant well-being at virtual program	

ACTIVITIES AND SERVICE

MIT Lecture Series Committee (LSC) <i>Projectionist, Webmaster</i>	February 2022–
• Handling technical and logistical details of putting on cinema-quality movies	
USA Computing Olympiad <i>Problem Staff</i>	January 2023–
USA Math Olympiad <i>Problem Writer/Reviewer</i>	November 2020–

REFERENCES (contact information available upon request)

Jason Harris, Vice President of Bioinformatics Engineering at Personalis
Po-Shen Loh, Professor of Mathematics at CMU and founder of NOVID