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), Im-
munology (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

- 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. Crowdsourced Contact Tracing. 2021. US Patent Application 2021/0400428.

TEACHING

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

Math Olympiad Program | Head Teaching Assistant

- Coordinated grading efforts across team of teaching assistants
- Graded and provided feedback on student papers and taught classes to top high school mathematicians

EXPERIENCE

 Jane Street Capital Quantitative Trading Intern Investigated strategies to maximize returns in various markets 	May 2023—August 2023 New York, NY
 Personalis, Inc. Bioinformatics Engineering Intern Devised and implemented novel algorithms (Python, Bash) for analyzing Homologous R 	June 2021—August 2021 epair 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

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

ACTIVITIES AND SERVICE

Last updated 27 September 2023

Fall 2023

June 2021, 2022

MIT Lecture Series Committee (LSC) Projectionist, Webmaster
Handling technical and logistical details of putting on cinema-quality movies
USA Computing Olympiad Problem Staff

USA Math Olympiad | *Problem Writer/Reviewer*

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 January 2023-

November 2020-