

# 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

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 (2023). Spatial Atlas of the Mouse Central Nervous System at Molecular Resolution. *Nature*. <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 (2021). Crowdsourced Contact Tracing. *US Patent Application 2021/0400428*.

## TEACHING

**MIT 18.C06 (Linear Algebra and Optimization)** | *Teaching Assistant* **Fall 2023**

**Math Olympiad Program** | *Head Teaching Assistant* **June 2021, 2022**

- 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* **May 2023–August 2023**  
*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–**

- 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–**

**REFERENCES** (contact information available upon request)

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Jason Harris, Vice President of Bioinformatics Engineering at Personalis

Po-Shen Loh, Professor of Mathematics at CMU and founder of NOVID