Jeremy Zhou

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Driven and quick-learning college student experienced in problem solving, software/web development, and collaboration. Passionate about solving the toughest problems in tech and business as a quantitative analyst, software engineer, or data scientist.

EDUCATION

Massachusetts Institute of Technology *Sep 2021 – Jun 2024*

- Candidate for Bachelor of Science, Mathematics & Computer Science and Engineering
- Undergraduate Research, xFair, Harvard-MIT Math Tournament, AI@MIT, Firespinning, Greek Life
- Coursework: Algorithms II, Graph Theory, Commutative Algebra, Econometrics (listener), Machine Learning (self-study)

Phillips Academy at Andover *Sep 2018 – Jun 2021*

- GPA: 5.9/6.0
- Math Club, *The Phillipian* (school newspaper), Physics Club, Linguistics Club, Photon (poi spinning), Nordic skiing
- Relevant coursework: Full Stack App Development, Computer Science Research

EXPERIENCE

Data Science Student Researcher: MIT Undergraduate Research Opportunities Program (UROP) *Dec 2021 – present*

- Collaboration with postdoc and grad students, advised by professors at MIT Sloan, CS, and political science departments.
- Simulate human behavior on social media, analyze click stream data to build model of extremist content recommendations.

Developer/Board Member: MIT xFair (https://xfair.io/) *Sep 2021 – present*

- Organize largest MIT student-run career fair w/2000+ student attendees. Promote xFair to company representatives.
- Design and develop application portal used by companies to register. Coordinate with dev, marketing, and logistics teams.

Physics Student Researcher: University of Wisconsin-Madison *Apr 2020 – Feb 2021*

- Devised cutting-edge research on ferroelectric thin films with direct applications to nano-scale electronics.
- Analyzed 15 theoretical and simulation papers. Formulated robust simulation, data manipulation and visualization w/NumPy.

Mathematics Student Researcher: MIT Program for Research In Mathematics, Engineering, and Science (PRIMES) (https://arxiv.org/abs/2008.00424) *Jan 2019 – Jan 2021*

- Introduced an extensive novel combinatorial framework to resolve an recent open problem in algebraic graph theory.
- Evaluated 30 related papers from professional journals. Consulted professors/grad students from MIT, Tufts, UT Austin.
- Authored poster, professional paper, slides. Presented at PRIMES 2019, Joint Mathematics Meetings 2019–2021.

Editor of Graphic Design: *The Phillipian*, Phillips Academy school newspaper *Jan 2020 – Jan 2021*

- Advised the paper's graphic design needs, collaborated with editors and upper management for weekly publishing.
- Achieved 1st place in category N34 at the 2020 Columbia Scholastic Press Association Gold Circle Awards for data visualization project, State of the Academy (http://pdf.phillipian.net/2020/06012020.pdf).

Tournament Director: Math Open At Andover (MOAA) (https://andovermathopen.com/) *May 2020 – Oct 2020*

- Directed team of 8 to construct a new virtual MOAA: organization, sponsor acquisition, advertising, logistics, web dev, etc.
- Overhauled website w/frontend and backend work. Attained $19K in sponsorships, allowing removal of registration fee.
- Hosted MOAA w/1100+ participants, who interacted in our virtual community space and attended 6 talks by sponsors.

AWARDS

2 x Qualifier: Mathematical Olympiad Program (MOP)
national top 60

Silver Medal: International Linguistics Olympiad (IOL)
international top 30

Gold Medal: USA Physics Olympiad (USAPhO)
national top 40

Scholar: Regeneron Science Talent Search (STS)
national top 300

3 x Outstanding Undergraduate Student Poster: Joint Mathematics Meetings (JMM)
largest mathematics conference in the USA

SKILLS

Programming Languages	Python, Java, C++, HTML/CSS, JavaScript
Tools/Frameworks	Django, Node.js, jQuery, D3.js, PostgreSQL, MongoDB, Linux/Unix, Git, NumPy, MatPlotLib