

XIAORAN STEVEN QU

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EDUCATION

Massachusetts Institute of Technology 2019 – Present
SB in Computer Science and Mathematics GPA: 5.0/5.0
Coursework: Algorithms, Probability, Software Construction, Computation Structures, Real Analysis

Montgomery Blair High School 2015 – 2019
Science, Mathematics, and Computer Science Magnet Program GPA: 4.0/4.0

EXPERIENCE

Research intern at MIT CSAIL May 2020 – Present

- Refined a technique of synthetic healthcare data generation using dynamic Bayesian networks
- Analyzed a new method of program inference via continuous embedding

Research intern at University of Maryland Sep 2018 – Aug 2019

- Developed a new bipartite rounding procedure for the purpose of improving weighted completion time on unrelated machines, paper publication in progress

ACTIVITIES

MIT Sloan Business Club, Board Sep 2019 – Present
MIT Effective Altruism, Board Feb 2020 – Present
MIT IEEE/ACM Club, Faculty-Student Relations Sep 2019 – Jun 2020
Art of Problem Solving, Teaching Assistant Jul 2019 – Present

SELECTED AWARDS

Regeneron Science Talent Search Scholar (Top 300 in US), 2019
USA Mathematical Olympiad Top 100 Scorer, Qualifier 2015–2019
USA Computing Olympiad Platinum Div. (Top 250 in US), 2016–2019
Who Wants to Be a Mathematician Top 3 Finalist, 2019
Mathworks Math Modeling Challenge Top 12 Team in US, 2018

PROJECTS

MBHS Polistat Sep 2018 – Nov 2018

- Designed a prediction model that was 95% accurate for the 2018 US midterm elections
- Built the website: <https://2018.polistat.mbhs.edu/>, and interviewed by the newspaper

Maximizing Influence Apr 2017 – Sep 2018

- Developed probabilistic models of influence that predict spread of disease through social networks
- Awards: Pioneer Tournament Finalist, US Public Health Service Meritorious Award, National Junior Science and Humanities Symposium

SKILLS

Programming Python, Java, C++, HTML, JavaScript
Software & Tools Git, MATLAB, R, LaTeX, Minitab, Stella, Inventor, Microsoft Office
Interests Poker, Composing, Running, Basketball, Map design