

## ADWAY S. WADEKAR

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### Education

Saint John's High School, *Class of 2021*

- *Advanced Placement*: Microeconomics (Self Study), Statistics (Self Study), Macroeconomics (Self Study), Psychology (Self-Study), European History, BC Calculus, English Language and Composition, Physics 1, US History – 5; French Language and Culture – 4
- *Standardized Tests*: PSAT (1470/1520) / SAT (1550/1600, 780/800 Math, 770/800 EBRW) / Math II Subject Test (780/800)

### Honors and Awards

1. Regeneron Science Talent Search: Top 300 Scholar (2021)
2. Advanced Placement Scholar Awards: National AP Scholar (2020); AP Scholar with Honor (2019)
3. Intel International Science and Engineering Fair: Certificate of Honorable Mention (Top 10 Statistics Projects Worldwide), American Statistical Association (2019)
4. Massachusetts State Science and Engineering Fair: First Award (2019); Third Award (2018)
5. Junior Science and Humanities Symposium: National Finalist (2019); S. New England Region First Place (2019)
6. Worcester Regional Science and Engineering Fair: Second Award (2019); Third Award (2018); Naval Science Award (2019)
7. Community Youth Excellence Award (2 students chosen of ~75), India Association of Greater Boston (2020)

### Selected Publications and Working Papers

1. A.S. Wadekar and B.K. Madras, “Association of Perceived Parental Attitudes Towards Substance Use and Offspring Use of Tobacco, Alcohol, Marijuana and Other Drugs”, *Working Paper*
2. A.S. Wadekar, “A Psychosocial Approach to Understanding Substance Use Disorders Among Adolescents”, Full-length Research Article, *Proceedings of the IEEE/ACM International Conference on Social Networks Analysis and Mining*, The Hague, Netherlands, December 2020
3. A.S. Wadekar, “Understanding Opioid Use Disorder using Tree-based Classifiers”, Full-length Research Article, *Drug and Alcohol Dependence*. (Impact factor 3.951), vol. 208, March 2020
4. A.S. Wadekar, “Predicting Opioid Use Disorder Using a Random Forest”, Short Communication, *Proceedings of the IEEE Computer Society Signature Conference on Computers, Software and Applications*, Milwaukee, WI, July 2019 (40% accept rate)
5. A.S. Wadekar, “Grade-level participation in the AP curriculum”, Full-length Research Article, *Proceedings of the IEEE Integrated STEM Education Conference*, Princeton, NJ, 2018

### Experience

*Student Researcher*, McLean Hospital and Harvard Medical School (Summer 2020)

- Conducted research concerning parental involvement and views relationship with offspring substance use, collaborating with Dr. Bertha Madras.
- Manuscript in progress as first author; publication expected.

*Student Journalist*, New England High School Journalism Collaborative Summer Workshop (Summer 2020)

- Accepted into a selective (~15% accept rate), one-week program in which students put together an issue of a newspaper.
- Wrote two news articles: one about the First Amendment and the other about educational disparities, both in the context of COVID-19. Also chosen by my peers to co-write the editorial piece.

*Photographer in Residence*, Town of Westborough (July 2019 – Present)

- This position was established to advance Westborough's long tradition of preserving its history through photographs.
- My artistic vision, which informs my photography, is to explore Westborough through the eyes of young children (adapted due to COVID-19).

*Writer and Photographer*, The Community Advocate Newspaper (April 2018 - Present)

- Curate local events and happenings and pitch story ideas directly to the managing editor.
- Attend events in person; conduct in-depth reporting incorporating interviews from multiple sources.
- Wrote feature stories about local happenings and people in the Central MA region.

### Skills

R, Python, Excel, and SAS for Quantitative Data Analysis

HTML, CSS, JavaScript, Node.js, MongoDB, React/Redux, Python, PHP, and SQL for Web Development

Photography and working knowledge of Adobe Lightroom/Bridge/Photoshop Creative Cloud.