

## ADWAY S. WADEKAR

e-mail: [adway.wadekar@duke.edu](mailto:adway.wadekar@duke.edu)

phone: 508-335-9508

### Education:

**Duke University**, Durham, N.C. (2021-2025)

Prospective B.S. in Statistical Science (w/ concentration in mathematical statistics) and Sociology.

Minor: Economics.

*Activities & Societies:* Brief Writing Team, Duke University Moot Court; Community Representative, Trinity House Council; Hindu Students Association; DukeEngage Gateway.

### Selected Professional Experience:

*Research Assistant to Prof. Chris Bail*, Polarization Lab, Duke University (November 2021 – Present)

- Conduct collaborative, mixed-method (qualitative and quantitative) research with Prof. Christopher Bail and Time Magazine's investigative journalist Amanda Ripley. Build a computational "decency index" for members of Congress to inspire civility and bipartisanship.
- Used messages from Twitter and other data source, including text from congressional hearings to perform analysis. Analysis performed via machine learning tools and a variety of R packages.

*Research Technician*, Human Rights Institute, University of Connecticut (May 2021 – Present)

- Conducted social network mining and analysis to model and understand attacks on human rights defenders in Colombia, Guatemala, and Serbia.
- Pulled, cleaned, and labeled messages from Twitter and other platforms. Analyzed them via computational techniques.
- Analysis from summer work to be included in upcoming paper from the Human Rights Institute.

*Independent Researcher* (August 2017 - Present)

- Build machine learning models to predict the risk and mitigating factors for substance use disorders based on the NSDUH (National Survey on Drug Use and Health) data.
- My research has been noted on Twitter by prominent scientists and policymakers such as Prof. Bertha Madras (Harvard Medical School), who later invited me to work with her, and Dr. Kevin Sabet, (White House Office of National Drug Control Policy advisor in the Clinton, Bush, and Obama administrations).

*Teaching Assistant/Grader*, Department of Mathematics, Duke University (September 2021 – Present)

- Teaching assistant in the math help room for undergraduate students. Responsible for 3 hrs/wk of TAing.
- Assisted students with understanding course material from single variable calculus classes of varying levels.
- Grader for MATH 112 (Integral Calculus). Responsible for 4 hrs/wk of grading.

*Teaching Assistant*, The Fuqua School of Business, Duke University (September 2021 – Present)

- Undergraduate teaching assistant for DECISION 618: Data Analytics for Business, taught every Fall Semester I to MBA and MQM students.
- Assisted students in using the R Programming language to analyze both quantitative and qualitative data.
- Course material includes various topics in decision and social sciences. These include health risk prediction, social media analysis, and text mining, among others.

*Staff Reporter*, The Duke Chronicle (October 2021 – Present)

- Pitch and write university news stories about administrative actions and policies and their impact on students and other members of the university community.
- Topics covered include: mold in dorms, raised dining prices, administrator salaries, anti-poaching settlements, etc.
- Wrote sports stories for a brief time (before getting hired with Duke Basketball).

#### *Social Media and Recruiting Data Analyst, Duke Men's Basketball (September 2021 – Present)*

- Analyze social media data from Duke Men's Basketball (one of the most successful Division 1 programs in NCAA history) and other NCAA Division I programs. These analytics are used in presentations to recruits.
- Suggest content, based on analysis of recent and historical basketball games, and with an eye towards recruiting to improve the reach and engagement of Duke Basketball.

#### **Selected Publications:**

1. **A.S. Wadekar**, "A Psychosocial Approach to Predicting Substance Use Disorder (SUD) Among Adolescents", Full-length Research Article, *Proceedings of the IEEE/ACM International Conference on Social Networks Analysis and Mining*, The Hague, Netherlands, December 2020. doi: [10.1109/ASONAM49781.2020.9381378](https://doi.org/10.1109/ASONAM49781.2020.9381378)
2. **A.S. Wadekar**, "Understanding Opioid Use Disorder using Tree-based Classifiers", Full-length Research Article, *Drug and Alcohol Dependence*. (Impact factor 4.492), vol. 208, March 2020. doi: [10.1016/j.drugalcdep.2020.107839](https://doi.org/10.1016/j.drugalcdep.2020.107839)
3. **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. doi: [10.1109/ISECon.2018.8340512](https://doi.org/10.1109/ISECon.2018.8340512)

*Ad-hoc referee service:* Journal of the American Medical Informatics Association; Drug and Alcohol Dependence.

#### **Selected Honors and Awards:**

1. Huang Fellow, Duke University (2022).
2. Regeneron Science Talent Search: Scholar Award (2021).
3. New England High School Journalism Collaborative: Summer Workshop Finalist (2020).
4. Advanced Placement Scholar Awards: National AP Scholar (2020); AP Scholar with Honor (2019).
5. Intel International Science and Engineering Fair: Cert. of Honorable Mention, American Statistical Assn. (2019).
6. Junior Science and Humanities Symposium: National Finalist (2019); S. New England Region First Place (2019).
7. Community Youth Excellence Award (2 students chosen of ~75), India Association of Greater Boston (2020).

#### **Technical Skills:**

R, Python, LaTeX, Excel, Photoshop.