

APARNA ANANTHASUBRAMANIAM

Ph.D. Student

School of Information, University of Michigan
3332 North Quadrangle, Ann Arbor, MI 48104
aparna-ananth.github.io | akananth@umich.edu

EDUCATION

- University of Michigan* 2019 – present
- Ph.D., School of Information
 - Advisors: Daniel Romero and David Jurgens
- Stanford University* 2014
- B.S., Mathematics
 - M.S., Management Science & Engineering, concentration: Operations and Analytics

RESEARCH

- Research Assistant**, *School of Public Health, University of Michigan* Summer 2021
Advisors: Briana Mezuk, David Jurgens
Project: Measuring the impact of job and housing transitions on suicides in older adults
- Research Fellow**, *Information Sciences Institute, University of Southern CA* Summer 2020
Advisor: Emilio Ferrara
Project: The limits of unfairness mitigation models in addressing the impact of standard language ideologies on toxic language detection models
- Research Assistant**, *Department of Medicine, Stanford University* 2013 – 2014
Advisor: Sanjay Basu
Project: Agent-based modeling of built environment's relations to physical activity levels
- Research Experience for Undergraduates**, *Mathematics, Uni of Michigan* Summer 2010
Advisors: Victoria Booth, Cecilia Diniz-Behn
Project: Investigating the network structures underlying REM sleep generation
- Simons Summer Research Fellowship**, *Medicine, Stonybrook University* Summer 2008
Advisor: Berhane Ghebrehwet
Project: Elucidating Native Human Antibodies to Membrane-Bound $g\text{c}1\text{q-R}$

PEER REVIEWED PUBLICATIONS

- [1] **Ananthasubramaniam A**, Weissler, R, Jurgens, D, Romero, D, Ferrara, E. (2021) “The Limits of Unfairness Mitigation Models in Addressing the Impact of Standard Language Ideologies on Toxic Language Detection Models.” In prep.

- [2] **Ananthasubramaniam A**, Jurgens, D, Romero, D. (2021) “Here there and everywhere: Investigating Putative Mechanisms Underlying the Geographic Diffusion of Lexical Innovation” In prep.
- [3] Diniz Behn C, **Ananthasubramaniam A**, Booth V. (2013) “Contrasting existence and robustness of REM/NREM cycling in physiologically-based models of regulatory networks.” *SIAM Journal of Applied Dynamical Systems*, 12(1), 279–314

PRESENTATIONS

- [1] Modeling the Geographic Diffusion of Lexical Innovation on Twitter, International Conference on Computational Social Science, 2020
- [2] Modeling Tradeoffs of Security Risks in Telemetric Cardiac Pacemakers, International Conference on Computational Social Science, 2020
- [3] Agent-Based Modeling Workshop, Active Living Research Conference, 2014
- [4] The Dynamics of REM Sleep Generation, Northern California Undergraduate Mathematics Conference, 2011

TEACHING

Stanford University

Homelessness in Silicon Valley (Course Creator and Instructor), 2015 – 2018
 Design of Behavior Change Interventions (Course Instructor), 2011 – 2013
 Implementation of Behavior Change Interventions (Course Creator and Instructor), 2012 – 2013
 Single Variable Calculus (Undergraduate Teaching Assistant), 2011, 2013 – 2014

INDUSTRY

Researcher (Contract/Volunteer), *Mission Asset Fund, San Francisco, CA* 2020 – present
 Developed a “Financial Equity Framework” to prioritize the waitlist of a \$25M Rapid Response Fund, giving cash assistance grants to college students, Los Angeles Creative Economy workers, and undocumented immigrants left out of CARES Act funding. Launched three bilingual surveys to measure financial impacts of COVID-19 for grant recipients’ and their financial coping strategies. Developed data-driven insights to policymakers, including in CA’s State Legislature. Developed models to capture financial wellbeing of low-income immigrants. Consulting on design of a 2-year evaluation of a Guaranteed Income program, set to launch in 2021.

Research Director, *Mission Asset Fund, San Francisco, CA* 2018 – 2019

Research & Development Director 2016 – 2018

Research & Development Manager 2015 – 2016

Product & Research Fellow 2014 – 2015

Managed a fintech nonprofit’s research and technology work, including supervising a team of up to 3 people and 4 remote engineers. Developed operations plan and data system for a number of business-critical processes, including loan management, accounting, and underwriting and application review. Conducted user research via interviews, focus groups, surveys, and analysis of client credit reports to inform the design of technology and help tell a nuanced, strengths-based story about the financial wellbeing of low-income and immigrant communities in USA. Developed

research insights presentations on entrepreneurship, informal income, credit tradelines, and ITIN services for funders and policymakers.

Data Analyst, Community Technology Alliance, San Jose, CA 2012 –2013

Supported five Bay Area counties in understanding their homeless residents' demographics, housing status, service use, and program successes. Provided data-driven insights to two county-wide initiatives on reducing chronic homelessness and implementing rapid re-housing, including understanding and forecasting retention in housing and monitoring and evaluating early results.

Co-Founder and Operations Team, Heart and Home Collaborative, Palo Alto, CA 2011– 2019

Shelter Director and Client Services and Outreach Lead 2014 – 2019

Board of Directors 2016 – 2019

Representative, Santa Clara County Homeless Service Providers' Collaborative 2014 – 2015

Opened a volunteer-run shelter for unhoused women, using participatory planning methodologies to develop the shelter's operations plans and policies. Served as one of two Shelter Directors, overseeing staffing, client touchpoints (intake, discharge, conflicts, house meetings), and support services (housing and job search, medical needs, sympathetic ear). Helped recruit three faith organizations to house the shelter. Supported key operational functions including community outreach, supplies management, finances, and street outreach.

Case/Crisis Manager, Neighbors Helping Neighbors, Palo Alto, CA 2014 - 2016

Served in a volunteer-run organization, coordinating resources and offering support to low- and middle-income families in the South Bay Area. Worked with clients with higher levels of need and who required ongoing support, including those with serious housing, financial, medical, and mental health challenges.

Co-Founder and Member, Community Cooperation Team, Palo Alto, CA 2011 –2013

Started a community-led organizing group, which successfully petitioned Palo Alto's City Council to overturn a proposed vehicle habitation ban in 2012, and continued to advocate for fair local policy through 2015.

HONORS

US Presidential Scholar, US Dept of Education, 2009

National Merit Scholar, 2009

Robert Byrd Scholar (MI), 2009–2011

Public Service Scholar, 2011 (declined)