

APARNA ANANTHASUBRAMANIAM

Ph.D. Student at University of Michigan's School of Information
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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

HONORS

US Presidential Scholar, US Dept of Education, 2009 National Merit Scholar, 2009
Robert Byrd Scholar (MI), 2009–2011 Public Service Scholar, 2011 (declined)

RESEARCH EXPERIENCE

Research Assistant, *Department of Medicine, Stanford University* 2013 – 2014

Advisor: Sanjay Basu

Project: Agent-based modeling of relations between built environment (BE) and physical activity (PA) levels

Research Experience for Undergraduates, *Dept of Mathematics, Uni of Michigan* 2010

Advisors: Victoria Booth & Cecilia Diniz-Behn

Project: Investigating the network structures underlying REM sleep generation

Simons Summer Research Fellowship, *Dept of Medicine, Stonybrook University* 2008

Advisor: Berhane Ghebrehiwet

Project: Elucidating Native Human Antibodies to Membrane-Bound gc1q-R

PEER REVIEWED PUBLICATIONS

- [1] 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

TEACHING EXPERIENCE

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

WORK EXPERIENCE

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.

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. Collaborated on two county-wide initiatives on reducing chronic homelessness and implementing a rapid re-housing program, 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. Volunteered as a Street Outreach Worker and Case/Crisis Manager, including clients with serious 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.

SKILLS

Computer

proficient in R, Mathematica, Matlab, Excel, VBA, C++, Netlogo, STATA, Salesforce, and Business Objects; basic ability in C, Python, JavaScript, SQL

Languages

Basic conversational ability in French, Spanish, and Tamil; ability to read and write IPA

Certifications

CPR, AED, First Aid, Mental Health First Aid, Peer Counseling