

## APARNA ANANTHASUBRAMANIAM

Ph.D. Student

School of Information, University of Michigan  
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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

### RESEARCH

**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**, *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

### PRESENTATIONS

- [1] Agent-Based Modeling Workshop, Active Living Research Conference, 2014  
[2] The Dynamics of REM Sleep Generation, Northern California Undergraduate Mathematics Conference, 2011

## TEACHING

### Stanford University

Homelessness in Silicon Valley (Course Creator and Instructor), 2015 – 2017

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

**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.

## HONORS

US Presidential Scholar, US Dept of Education, 2009

National Merit Scholar, 2009

Robert Byrd Scholar (MI), 2009–2011

Public Service Scholar, 2011 (declined)