Ryan Theisen

theisen@berkeley.edu   www.ryantheisen.com   480 323 5944

Education

2018-	**Ph.D. in Statistics, University of California, Berkeley**
2017-2018	**M.A. in Mathematics, Arizona State University**
	Thesis : Convergence Results for Two Models of Interaction, advised by Sebastien Motsch
2013-2017	**B.S. in Mathematics and Economics, Arizona State University**
	Phi Beta Kappa, Summa Cum Laude, Outstanding Graduate (Mathematics and Economics)

Employment

2016-2017 — Senior Data Analyst, Amazon.com, Tempe, Arizona
Built statistical models in Python and R to aid in staffing plan of over 2,000 customer service associates. Built optimization software using Pyomo to optimally staff and schedule Amazon customer service agents, with Flask web front-end. This tool is currently used to schedule the entire Amazon customer service network and is supported by a team of full-time developers.

2016- — Co-Founder, Director of Data Science, Veratox LLC, Tempe, Arizona
Co-founded technology consultancy specializing in data science and web design. Contracted with U.S. Senator to handle all campaign web services and data analytics. Contracted with The Wolff Company to design advanced predictive software for real estate investment.

2016-2018 — Graduate Student Researcher, The Luminosity Lab, Arizona State University
Worked on team of top graduate and undergraduate students to design and develop new technologies to improve ASU student experience. Projects include developing the open education platform Mindspark, scheduling algorithms for autonomous drones, and building a haptic-based guidance system for the visually impaired.

Summer 2016 — Operations Intern, Amazon.com, Seattle, WA
Worked on project to hire remote, unscheduled associates for temporally variant spikes in customer service calls. Developed predictive models for flexibility in the customer service network.

2014-2017 — Teaching Assistant, Department of Economics, Arizona State University
Teaching Assistant for Intermediate Microeconomics and Principals of Microeconomics.

Papers

2018	Weber, D., Theisen, R., Motsch, S. *Deterministic versus Stochastic Consensus Dynamics on Graphs (submitted).*
2016	Motsch, S., Reamy, A., Theisen, R. *Asymptotic Flocking for the Three-Zone Model (preprint).*

Conferences and Presentations

2018	ASU/GSV Summit – San Diego, CA *Haptic-based guidance for the visually impaired.*
2017	Society for International Development – Washington, D.C. *Mindspark : An Open Education Platform*
2016	Joint Mathematics Meetings – Seattle, WA *A Model of Flocking in Three Zones*

Awards and Honors

2017	**Dean's Medal, Mathematics** Arizona State University *Awarded as outstanding graduating senior in School of Mathematical and Statistical Sciences.*
2017	**Dean's Medal, Economics** Arizona State University *Awarded as outstanding graduating senior in Department of Economics.*
2017	**Moeur Award** Arizona State University *Granted University-wide academic distinction at graduation.*
2016	**J.P. Morgan Chase Scholar** Arizona State University *Awarded prestigious fellowship for top economics undergraduates.*
2014	**Fulbright Scholarship** University of Bristol, England *UK Summer Institute for Young American Student Leaders.*

Service and Volunteering

2012- | **Kino Border Initiative, Volunteer / Group Founder, Nogales, Mexico**
Founded club that leads student groups to Nogales, Mexico to educate them on immigration-related issues. Taught seminar on immigration and income inequality at annual Summit on Human Dignity at local high school.

Skills

> **Programming :** Python, Julia, R, LaTeX, MATLAB, SQL, Javascript, CSS
> **Languages :** English, Spanish (elementary proficiency)

Interests

> **Research :** Statistics, Machine Learning
> **Personal :** Photography, Green Bay Packers, Arsenal FC, Rock Climbing, Hiking