

## Education

**New York University's Center for Urban Science + Progress (CUSP), Master of Science** [2017 – 2018]

NYU CUSP Merit Scholar (**GPA: 3.9**)

**Stanford University, Bachelor of Science** [2014 – 2017]

Environmental Systems Engineering, Urban Track (**GPA: 3.7**)

## Work Experience

**Research Scientist, City Systems** [September 2018 – Present]

- Refining a planning tool based on community access to amenities to support the revitalization of South Stockton.
- Developing a resource portal for Accessory Dwelling Unit conversions in East Palo Alto.

**Intern, Executive Research Department, NY State Office of the Attorney General** [Summer 2018]

- Conducted data analysis to support investigations, prosecutions, and lead generation for pharmaceutical, campaign contribution, and financial crimes.
- Identified fake FX option trades in a dataset of millions of reported trades, supporting [the guilty plea of and \\$1M+ fine paid by TFS-ICAP](#).
- Built a tool to identify leads for illegal campaign contributions.

**Graduate Research Assistant, Urban Intelligence Lab** [Fall 2017 – Summer 2018]

- Recipient of the MacArthur Foundation Civic Analytics Graduate Student Fellowship.
- Published research on the use of predictive analytics to support homeless shelter provision in a [peer-reviewed journal](#), and presented work to the Applied Urban Science Group.
- Built an algorithm for population estimation at the building scale using residential water consumption data.
- Provided editorial guidance on a "Civic Analytics" textbook.

**Teaching & Research Assistant, Sustainable Urban Systems Initiative** [Summer 2016 – Summer 2017]

- Developed content for and guided students through 7 real-world projects across 3 different courses.
- Organized a seminar series, a symposium, and two Smart Cities NYC workshops.
- Developed a prototype web tool supporting the localization of Sustainable Development goals in San Jose and the Bay Area at large.
- Created quarterly newsletters using MailChimp; edited and published blog posts for the Sustainable Urban Systems website.

**Resilience Intern, City of Oakland** [Summer 2015]

- Spearheaded an Executive Summary assessing key stakeholder perceptions on resilience in Oakland.
- Coordinated the review of 200+ exemptions from a soft story retrofit program.
- Conducted engineering risk analyses and data analysis to help policy-makers, planners and citizens better understand the scope of Oakland's soft story retrofit program.

## Course Projects

- **Housing:** [Digital Traces of the Predatory Landlord](#); Program Analysis - Los Angeles County's Flexible Housing Subsidy Pool; [the Affordable Housing Opportunity Index](#); [Berryessa BART Transit Oriented Development Proposal](#); Social Media Strategy for San Mateo Rent Control Campaign
- **Criminal Justice:** [Assessing Racial Discrimination in Traffic Stops Across Texas](#)
- **Resilience and Sustainability:** Modular Resilience Framework for Data-driven Decision-making; [Designing Green Infrastructure in San Jose](#); Improving Indonesia's SMS Tsunami Warning Alert
- **Transportation:** [Is Uber Taking Over New York City?](#)

## Publications

- [Digital Traces of the Predatory Landlord](#) (Bloomberg Data for Good Exchange, presented paper in September 2018)
- [Applications of Machine Learning Methods to Predict Readmission and Length-of-Stay for Homeless Families: The Case of Win Shelters in New York City](#) (Journal of Technology in Human Services, 2018)

## Skills

- **Analytic Skills:** analysis and evaluation of municipal programs and policies; statistical analysis; data integration and management
- **Communication Skills:** multimedia communication of technical findings in urban planning, social services and criminal justice; data visualization and web design; coordination of internal and external stakeholders; MailChimp for public relations
- **Leadership Skills:** experience leading teams using agile, scrum and traditional project management methods; event organization
- **Programming Languages:** Python, R, SQL, Javascript, HTML, CSS, Leaflet, ArcGIS, CARTO, Excel