Jack Lundquist

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https://jack-lundquist.github.io/portfolio/

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 feedback 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