

Daniel Zhao

iamdanzhao@gmail.com
danielzhao.me / (973) 919-6559

Education

Yale University, New Haven, Conn.
Aug '17 — May '21 (expected)

B.S., Statistics & Data Science

Courses: Machine Learning, Data Structures, Probability, Mathematical Statistics, Linear Algebra, Multivariate Stats

B.A., Global Affairs

Courses: Economics, Big Data and Global Policy, Sustainability, International Development, International Security

Academy for Math, Science, and Engineering, Rockaway, N.J.
Sept '13 — Jun '17, GPA 4.56/4

Valedictorian in competitive class size of 26.

Skills

Data analysis: R, Python, Stata

Data visualization: R, R Shiny, Python, Power BI, Tableau, more

Web scraping + NLP: R, Python (NLTK, BeautifulSoup, Selenium)

Machine learning in Python (scikit-learn, keras, gensim), R (glmnet, topicmodels)

GIS in R (rgdal, sf) and QGIS

Other languages: Java, C, SQL, HTML, CSS, JavaScript

Other software: G Suite, Office, Photoshop, Illustrator, InDesign

Soft: public speaking, leadership

Fun fact

I can draw the New York City subway map from memory!

I am a rising junior at Yale College studying Data Science and Global Affairs. I'm a technologist, policy wonk, and transportation geek interested in civic technology, data privacy, technology regulation, and smart cities. I hope to channel my passion for data-driven storytelling as well as my policy research experience at all levels to further a symbiotic relationship between technology and society.

Work experience [see also recent projects at danielzhao.me/projects](http://danielzhao.me/projects)

Coding It Forward / Bureau of Labor Statistics, Civic Digital Fellow Washington, D.C. / Summer '19

Participated in Civic Digital Fellowship, a highly selective internship program focused on designing innovative technological solutions for U.S. federal agencies and preparing students for careers in civic tech. Designed dashboards to visualize web traffic and drive decisionmaking relating to targeting online content. Created proof-of-concept to evaluate solutions for a data lake to store structured and unstructured data. Evaluated deployment plans for enterprise data storage, help desk management, and other software.

Yale Dept. of Statistics and Data Science, Teaching Assistant New Haven, Conn. / Sept '18 — Present

Served as TA for intro statistics courses, including *YData* [S&DS 123, Spring '19], a pilot introductory data science course focused on inferential thinking, and Introductory Statistics [S&DS 10x, Fall '18]. Hold office hours, grade student problem sets and projects, and assist students one-on-one.

Louisville Metro Gov't, Office of Civic Innovation, Innovation & Data Intern Louisville, Ky. / Summer '18

Analyzed Waze data to assess impact of 7 signal retimings and roadway reconfiguration projects. Presented results to help planners persuade elected officials to continue funding infrastructure. Created 4 Microsoft Power BI dashboards to visualize traffic along key corridors and identify choke points. Researched smart city and self-driving vehicle planning. Facilitated Louisville's digital inclusion initiatives.

Activities

Yale Roosevelt Institute, Center Head of Energy & Environment New Haven, Conn. / Sept '18 — May '19

Led team of 10 to study the feasibility and efficacy of the CT Green Bank as a model for green finance. Previously studied strategies to increase renewable generation and feasibility of building a microgrid. Skilled at writing policy memos, conducting interviews, and assessing peer-reviewed and grey literature. Attended 2018 UN Conference of the Parties (COP 24) climate change conference in Katowice, Poland.

Yale Daily News, Photography Editor New Haven, Conn. / Sept '18 — Present

Led 10+ staffers to produce daily content for print, web, and social media for the oldest college daily. Photographed speakers, campus-wide protests, and events for breaking news and feature articles. Selected photos have appeared in the *New York Times* and *The Atlantic*. Separately, manage a freelance on-campus photography business with 200+ hours of combined shooting and editing for formals, parties, conferences, profile photos, and other occasions.

Mikie Sherrill for Congress in NJ-11, Research Fellow Remote / Jan '18 — Aug '18

Researched federal flood resiliency policy and legislation (such as National Flood Insurance Program), EPA pollution cleanup programs, wind energy, and state-level initiatives to reduce flooding. Wrote policy briefs breaking down federal versus state policies, budgetary allocations, opponent positions.