KRISTIN CHANG

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EDUCATION ---

University of Pennsylvania | August 2020 - December 2022, 3.97 GPA
City and Regional Planning; Housing, Community, and Economic Development Concentration (M.S.)
Urban Spatial Analytics (M.S.)

University of California at Berkeley | August 2014 - May 2018, 3.4 GPA
Conservation and Resource Studies (B.S.), GIS (Minor)

SKILLS --

City Planning: GIS, Graphic Design (Adobe Suite CC); Data Visualization, Vision Zero Analysis, Community Asset Mapping, Climate Change Adaptation and Resilience Planning, Social Vulnerability Analysis, Land Use and Environmental Modeling, Public Policy Analytics

Spatial Data Analysis: Python, R, SQL, JavaScript, ArcGIS Pro, QGIS, GitHub, Microsoft Excel and Access; Spatial Statistics, Machine Learning, Deep Learning, Remote Sensing

WORK EXPERIENCE --

Consultant
Good Work Collaborative | April 2021 – Present

• Built a Heroku web application with map summary and table directory using community survey data to convene 50+ organizations helping the network mobilize for the 2030 Census and other equity-focused initiatives.

• Aggregated and calculated summary statistics using ACS and Self-Response Census data for a report evaluating strategic outreach efforts made for the 2020 Census.

Research Assistant, Drinking Water Salinization Modeling
University of Pennsylvania, Weitzman School of Design | June 2022 – August 2022

• Under supervision of Dr. Allison Lassiter, developed a supervised machine learning model that predicts groundwater salinity levels in response to future sea level rise to better inform drinking water suppliers along the Atlantic coast.

Data Analyst Intern, Vision Zero
Philadelphia's Office of Transportation, Infrastructure & Sustainability | June 2021 – August 2021

• Performed geospatial analyses on Pennsylvania's Department of Transportation data to inform the city's Safe Routes to School program and Vision Zero Action Plan, allowing planners to make data-driven decisions about which schools and projects to prioritize.

• Conducted a network analysis to study the spatial relationship between car crashes and driver home zip codes allowing the department to better strategize their planning efforts geographically.

Senior Data Analyst, 2020 Census
United Way Bay Area | October 2019 - August 2020

• Informed the implementation of a $3M+ initiative across the Bay Area by compiling data, presenting analyses on historically hard to count census tracts, and forecasting gaps in planned outreach, resulting in the highest average self-response rates in California's hardest-to-count tracts of the largest states across the nation.

• Self-taught state-selected phone banking and canvassing application (PDI) and built out operational structure for entire region resulting in 100% of hardest-to-count tracts contacted via the app.

• Assembled toolkits and created and led trainings for PDI engaging over 30 organizations and hundreds of volunteers to make 116,000 contacts about the census, driving higher response rates for these tracts in 2020 than in 2010.

Experienced Consultant, Healthcare
Triage Consulting Group (Now CloudMed) | June 2018 – October 2019

• Queried hospital patient claims data to identify underpayments for some of the largest hospital networks in the U.S., recovering $5M+ in lost revenue across all projects.