KRISTIN CHANG

Email: krchang@design.upenn.edu | Portfolio: https://kristinchang.github.io/portfolio/

SKILLS --

City Planning: GIS, Graphic Design (Adobe Illustrator, InDesign and Photoshop), Climate Change and Adaptation Planning, Resilience Planning, Smart Cities, Vision Zero, and Social Vulnerability Analysis

Spatial Data Analysis: Python, R, JavaScript, SQL, Esri ArcGIS (ArcMap and ArcGIS Pro), QGIS, Google Earth Engine, GitHub, and Microsoft Excel and Access

EDUCATION --

University of Pennsylvania | August 2020 - December 2022, 3.97 GPA
City 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.), Geospatial Information Science and Technology (Minor)

WORK EXPERIENCE --

Research Assistant, Drinking Water Salinization Modeling

University of Pennsylvania, Weitzman School of Design | June 2022 – August 2022

• Developed a supervised machine learning model that predicts groundwater salinity levels in response to sea level rise to better inform drinking water suppliers along the Northeast, Mid, and South Atlantic coast.

• Summarized research of available groundwater salinity data by aggregating EPA and multiple state agencies' data to support advocacy for more consistent data collection.

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 using ArcMap 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.

• Created maps that aligned with the city's graphic design standards to visualize statistics for the department's Vision Zero Annual Update and shared via ArcGIS Online, supporting various projects with minimal supervision.

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 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 areas of the largest states across the nation.

• Analyzed large datasets and presented statistical analyses to various audiences, including city officials and non-profit organizations, successfully guiding their strategic plans to be data-driven.

• 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 | June 2018 – October 2019