REI BERTOLDI

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EDUCATION
University of Chicago, Harris School of Public Policy   June 2020
Master of Public Policy
Certificates in Data Analytics and Energy & Environmental Policy

University of California, Davis
Bachelor of Arts in Science & Technology Studies   June 2016

SKILLS
- R, Python, Stata, QGIS, GeoDa, Salesforce, Git
- Causal analysis, multivariate regression analysis, multi-level regression modeling, longitudinal data analysis, spatial regression analysis, program evaluation

EXPERIENCE
DATA & IMPACT MANAGER, Clean Vehicle Assistance Program – Oakland, CA   11/2020 – Present
- Creates ETL processes to clean and manage program data
- Preforms data analytics for program evaluation and reporting
- Develops and measures program key performance indicators and equity metrics

TEACHING ASSISTANT, University of Chicago – Chicago, IL   02/2020 – 06/2020
- Teaching assistant for Data and Programming for Public Policy I in R
- Collaborated on effectively transitioning the course to remote learning

CODING LAB AND R BAR INSTRUCTOR, University of Chicago – Chicago, IL   08/2019 – 12/2019
- Developed curriculum on the foundations of programming and data analysis in R
- Instructed an incoming class of over 500 graduate students
- Prepared students without prior coding experience for the required Statistics for Data Analysis sequence
- Led weekly student coding workshops and provided individual coding support

RESEARCH ASSISTANT, University of Chicago – Chicago, IL   07/2019 — 09/2019
- Replicated statistical analysis of prior literature and reconciled results with novel lab data
- Created and updated data visualizations including paper's key and index plots
- Expanded functionality of existing research code to generate output statistics and plots for various input thresholds

VOLUNTEER, Chicago Community Bond Fund – Chicago, IL   03/2019 – 09/2019
- Created ETL processes to clean and merge FOIA requested Illinois jail data from 17 counties
- Identified and created trend plots and summary statistics for a report for Illinois bond reform advocates

PROJECTS
Predicting Levels of Ambient Fine Particulate
- Built a neural network in Python using the Keras API to predict insufficient or missing PM2.5 data

Measuring the Impacts of Income on Wind Turbine Locations
- Built a spatial lag regression model to analyze the effects of income on wind turbine locations in the U.S.

Visualizing Crime at Chicago Transit Authority (CTA) Stops
- Animated crime incidents at CTA stops over time using R's sf package

Web Scraping California Energy Production Data
- Web scraped California Energy Commission data to explore energy production in California