

Eric Langowski

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Education

MS in Computational Analysis & Public Policy, June 2020

University of Chicago, Harris School of Public Policy

Coursework: Causal Inference Statistics, Databases, Machine Learning, Program Evaluation, Web Development

BS in Mathematics, May 2018

Indiana University

Minors: Law and Public Policy, Joint Political Science and Economics, Liberal Arts Management/Business, Physics

Skills

- **Data Science:** R (tidyverse, data.table), python (pandas, selenium, flask), SQL
- **Data Visualization:** R (ggplot2, leaflet, R Markdown), JavaScript (Mapbox, d3)

Professional Experience

Data Analyst, Illinois Department of Central Management Services (*November 2020 to present*)

Data Analysis Specialist, Federal Emergency Management Agency (*August 2020 to November 2020*)

- Used R and python to build pipelines and automated reports on pandemic hotspots and vaccination distributions

Data Scientist, Center for Municipal Finance, University of Chicago (*May 2019 to September 2020*)

- Built a packaged data pipeline to produce standardized and automated reports using RMarkdown
- Presented detailed reports and visualizations to elected officials and reporters to improve property assessment
- Standardized a large (~10TB) nationwide geospatial dataset into 3,000 localized reports accessible online
- Released an open source R package for property tax data analysis
- Created interactive online dashboards using R Markdown, leaflet, java/d3, and mapbox

Consultant, Property Tax Appeal Project, Illinois Institute of Technology (*June 2020 to September 2020*)

- Built tools which automatically filed property assessment appeals for low-income homeowners in Detroit and Chicago
- Using R, react, and python (flask/sqlite3), deployed a 'turbo tax for property appeals' for public use

Grants Management Intern, Office of Budget and Management, City of Chicago (*July 2019 to June 2020*)

- Conducted city-wide budgetary analyses of new policies including raising the City's minimum wage to \$15 an hour
- Automated and validated the compiling of City data to comply with state and federal grant reporting requirements
- Led performance management for a multi-million-dollar contract using python and SQL

Inaugural Data Science Intern, Cook County Assessor's Office (*January 2019 to September 2019*)

- Quantified the equity and fairness of algorithms used to assess properties in Cook County
- Built innovative automated public facing reports utilizing SQL and R's Markdown, tidyverse, and ggplot
- Constructed internal dashboards to increase overall efficiency and complied open data releases
- Managed and optimized large (~1TB) databases

Teaching Fellow (R Programming), Data and Policy Summer Scholar Program (*June 2019 to August 2019*)

- Taught 120 undergraduate and graduate students tidyverse and R Markdown

Publications & Community Work

Student Leader of the Year, Indiana University (*2017*)

Citation: an individual whose vision, vitality and diligence has made significant contributions to the community

An Evaluation of Residential Property Tax Assessments in the City of Detroit, 2016-2018, Center for Municipal Finance, Harris School of Public Policy (*February 2020*)

Education Denied: Indiana University's Japanese American Ban, 1942 to 1945, Indiana Magazine of History (*June 2019*)

1st Vice Governor, Midwest District, Japanese American Citizens League (*August 2016 to present*)