

ELIZABETH "LIBBY" SELINE

<https://www.linkedin.com/in/libbyseline/> | <http://libbyseline.github.io/>

EDUCATION

Harris School of Public Policy, The University of Chicago
Master of Science in Computational Analysis and Public Policy

Chicago, Illinois
June 2026 (Expected)

University of Nebraska-Lincoln
Bachelor of Journalism with distinction

Lincoln, Nebraska
May 2021

EXPERIENCE

RECIDIVIZ

Contract Research Assistant

Chicago, Illinois
October 2025 - Present

- Create database of 500+ resources to help individuals adapt to life post incarceration by finding databases, scraping websites, and utilizing search engine operators
- Adapt existing company code to call the Google API by reading documentation and submitting Git pull requests to the company liaison to conduct specific web searches and find drug rehabilitation facilities, apartment complexes, and other organizations related to rehabilitation and their respective addresses

UCHICAGO JUSTICE PROJECT

Research Assistant

Chicago, Illinois
January 2025 - September 2025

- Collaborate with the lead professor, senior data scientist and three fellow research assistants to answer research questions pertaining to homicides in Chicago since 1800
- Wrote code using R/RStudio that correctly identifies increases in deaths in 100+ hexagonal geographic areas to evaluate factors that may have contributed to increase in Chicago neighborhood killings

FLATWATER FREE PRESS

Elections Guide Editor

Omaha, Nebraska
April 2024 - August 2024

- Developed and administered an election candidate survey with a series of 5 point Likert scale questions regarding stances on polarizing issues in Nebraska; oversaw 60% return rate from the questionnaire to produce a voter guide for Nebraskans
- Created pivot tables to summarize the data for 30+ different elections and respective candidates and used the findings to write 400-word paragraphs for each race to promote understanding of critical issues before the November 2024 election

SAN ANTONIO EXPRESS-NEWS

Data Reporter

San Antonio, Texas
July 2021 - January 2024

- Produced quick-turn data stories 1-3 times each month by analyzing requested or public datasets with thousands of rows via R/RStudio to determine the data's cleanliness and evaluate how to most accurately answer readers' questions
- Visualized and identified trends and outliers in maps and graphs via Datawrapper and Flourish programs to find people represented in the data so the story and community problem could be further communicated and addressed
- Conducted analysis for longterm and investigative articles by defining the problem facing the community and developing a list of questions to ask of the data so the investigation could serve a clear purpose

THE NEW YORK TIMES

Freelancer

Remote
March 2020 - April 2021

- Monitored the spread of COVID-19 among incarcerated people by manually collecting data from the nation's 2,000+ state, federal and local correctional facilities and tracking changes in a Google spreadsheet to inform the public about outbreaks
- Developed relationships with records custodians and filing records requests at least once a week to ensure data was current and up to date so corresponding graphics could inform people of the latest information regarding COVID-19 in facilities
- Interviewed incarcerated people, family members and advocates to learn about the stories represented in the data and publish 18 articles about hardships of coronavirus outbreak in all U.S. prison facilities

ACADEMIC PROJECTS

Visualizing the The United States Wage Gap

October 2025 - December 2025

- Built a big data web application on an Amazon Web Services cluster by using Apache Hive and Spark to implement a Lambda Architecture so a user could compare their salary with more than 600,000 others' incomes across the United States
- Customized a user's experience wage gap by creating Javascript events to capture a user's salary, utilizing d3.js to make graphs based on their input, and implementing a scroll-telling technique with Scrollama so a person could understand how their salary compares to both sexes' average incomes

Predicting Fire Station Response Times in Chicago

March 2025 - May 2025

- Created and compared the results from a logistic regression and K Nearest Neighbors machine learning models by checking the accuracy, precision, recall, and f-1 scores so the group could best predict fire station response times throughout Chicago
- Located, filtered, and cleaned National Fire Incident Reporting System data by inserting a DuckDB database and writing SQL code to add tables and select relevant fields to provide relevant inputs for machine learning models

311 Calls & Aldermanic Funding Analysis

January 2025 - March 2025

- Analyzed Chicago's 311 calls and City Council members' use of \$1.5 million for community-based projects to learn if spending addressed citizens' concerns by utilizing Python to scrape the web, form a database of Chicago alderpeople and 311 calls, and create visualizations so the team's findings could be shared in a command-line executable program

TECHNICAL SKILLS

Python, R/RStudio, SQL, Git/Github, Flourish, Datawrapper, HTML and CSS, Javascript, Apache Hive, Apache Spark, QGIS, ArcGIS Pro

ACHIEVEMENTS

2021 Pulitzer Prize in Public Service; 2023 Texas Managing Editors: Third place in Community Service Reporting; 2023 Best of the West Contest: Third Place Social Justice; 2023 New York Press Association: Best Investigative/In Depth Reporting award