CLAIRE BOYD

✉ claire.k.boyd@gmail.com | 🔗 linkedin.com/in/claire-boyd/ | ⬡ github.com/claireboyd | ☎ (646) 256-2354

CAREER OBJECTIVE

An emerging technologist pursuing a master's in computer science looking to gain mission-driven, data science experience.

TECHNICAL SKILLS

Languages: python (pandas, re, pytorch) | RStudio (tidyverse, tidymodels) | SQL (sqlite, PostgreSQL) | HTML/CSS
Software: git & GitHub | Visual Studio Code | Tableau Public | Trello | Slack | Asana | Microsoft Office Suite | G-Suite | NVivo
Other Skills: Report Writing | Project & People Management | Grant & Proposal Writing | IRB Documentation & Compliance

EDUCATION

University of Chicago   Chicago, IL
Master of Science in Computational Analysis and Public Policy   Expected June 2024
- *Course Topics:* Object-Oriented Programming, Data Structures, Data Cleaning & Visualization, Text Mining, Data Pipelines, Web Scraping, Machine Learning Models (KNN, CNN, Decision Trees, Logistic Regression, Gradient Boost), Causal Inference

University of North Carolina at Chapel Hill   Chapel Hill, NC
Bachelor of Arts, Political Science and Global Studies (Robertson Scholar - *Full Merit Scholarship*)   May 2018

PROJECTS   *available on* ⬡

- Predicting Pneumonia using Chest X-Ray Images (May 2023): Used LeNet and Logistic Regression to predict pneumonia using chest X-Ray images with 99.4% recall accuracy, after implementing different image transformations in pytorch *[public code]*
- COVID-19 Online: How people interacted with government websites during the pandemic (March 2023): Created a complete data pipeline (from collection to visualization) to explore web traffic to HHS websites during the pandemic *[public code]*
- Scraper for Chicago Maps Archive (Feb 2023): Reconfigured data made publicly available by the Chicago History Museum to help process and digitize the maps for public use by University of Chicago Library's Preservation Departments *[public code]*

EXPERIENCE

New York City Mayor's Office of Technology and Innovation (NYC OTI)   New York, NY
Data Science Intern, Office of Data Analytics   June 2023 – Present
- Supports ongoing analytics workstreams and leads new analytics projects, reporting directly to the Chief Analytics Officer

Cook County Assessor's Office   Chicago, IL
Data Science Intern, Data Department   March 2023 – June 2023
- Enhanced functionality of the R package lightsnip by developing and integrating a new feature, the "comparable finder," which enables accurate identification of comparable properties crucial for assessing property values in Cook County

Urban Institute   Washington, DC
Research Associate, Office of Race and Equity Research   November 2021 - July 2022
- Served as a co-principal investigator and project manager across 5 projects, partnering with senior researchers to identify key research questions, develop a cohesive methodology, conduct comprehensive analyses, and present findings directly to funders
- Conducted comprehensive data analysis in R using sophisticated matching methods to link administrative federal data to publicly available census estimates for racial equity analysis. These analyses are referenced in public Equity Action Plans
- Created interactive and data-driven Microsoft Excel dashboards to help program officers choose representative grantee cohorts, keeping in mind characteristics such as race and ethnicity of leadership, geography, and budget size

Research Analyst, Center on Nonprofits and Philanthropy   January 2021 - November 2021
- Streamlined quantitative (R) and qualitative (NVivo) data analyses on nonprofit-specific data for 6 philanthropic and federal program evaluations, making comprehensive, concise visuals to explain complex results
- Served as interim manager for the National Center for Charitable Statistics (NCCS), which included: teaching 10+ staff how to use a Python program to validate raw IRS 990 data, co-authoring the Nonprofit Sector in Brief annually

Research Assistant, Center on Nonprofits and Philanthropy   August 2018 - December 2020
- Led sample development, data cleaning, analysis and report writing for Salesforce.org's 3rd annual Global Nonprofit Trends survey (of over 1,600 responses) while navigating technical restraints due to General Data Protection Regulation compliance
- Spearheaded data aggregation, analysis and visualization for the Citi Community Progress Makers Fund 2019 annual impact report, streamlining data input from 70+ organizations to develop impact statements for the cohort overall

CIVIC ENGAGEMENT

- *Data, Ethics & Policy (Founding Board Member):* Responsible for fundraising and project managing a Fall 2023 conference exploring topics such as: algorithmic transparency, data privacy & ownership, and bias & fairness in computing.
- *South Side Civic (Participant):* Engaged in the annual Civic Scope-a-thon, which brings together civic organizations and students to learn about civic hacking. Partnered with South Shore Works to create data structures to track referrals to resident services.

RELEVANT PUBLICATIONS

J. Axelrod, **C. Boyd**, S. Fu, K. Ramos, and C. Balakrishnan. Lessons from Local Leaders: How Federal Agencies Can Help Ensure Data-Driven and Equity-Centric Infrastructure Investment. Urban Institute. August 2022

Boyd, C., L. Doyle, and M. Menezes. Keeping Youth of Color Connected in Texas Public Schools. Urban Institute. January 2021