Matt Herman

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EDUCATION

City University of New York, Hunter College   New York, NY
Master of Science in Applied Social Research   May 2018

Columbia University, Columbia College   New York, NY
Bachelor of Arts in American Studies   May 2006

EXPERIENCE

Council of State Governments Justice Center   New York, NY
Deputy Program Director, Data Science, Research Division   July 2024 – present
Project Manager, Data Science, Research Division   July 2022 – June 2024
Data Scientist, Research Division   July 2021 – June 2022

- Gather and clean criminal justice data from partner agencies and public sources
- Analyze and model data to generate insights using the R programming language
- Build interactive and static data visualizations to communicate results of quantitative analyses
- Collaborate with CSG State Initiatives Division to develop policy recommendations

NYC Administration for Children's Services   New York, NY
Deputy Director, ChildStat Data   March 2020 – July 2021
Senior Analyst, ChildStat Data   January 2019 – March 2020

- Generated outcome measures and performance indicators for child welfare casework from administrative databases
- Developed an automated and reproducible workflow using R and SQL to query databases, aggregate and summarize metrics, and create HTML and PDF dashboards, reports, and presentations
- Collaborated with managers of frontline child protection staff to interpret data in order to create actionable quality improvement plans and assess the impact of these plans

Center for Innovation through Data Intelligence, Office of the Mayor   New York, NY
Research Intern   June 2017 – May 2018

- Developed predictive model to identify individuals at risk of becoming homeless using natural language processing and machine learning tools
- Matched individual-level data across multiple NYC administrative databases

StoryCorps   Brooklyn, NY
Door-to-Door Facilitator   Nov 2008 – Sept 2011
Development Associate   May 2007 – Nov 2008

- Helped people record the stories of their lives for one of the largest American oral history projects
- Collected, processed, and archived interview materials to be cataloged by the Library of Congress
- Prepared grant proposals and reports for foundation and government funders

OPEN SOURCE CONTRIBUTIONS

- Co-author of **tidycensus** R package, making it easy to download US Census and American Community Survey data using the Census web API
- Creator of **nycgeo** R package, containing spatial data files for geographic and administrative boundaries in NYC
- Creator of **Covid-19 tracking site for Westchester County**, including maps, charts, and tables highlighting cases, testing, and fatality trends by county; per capita case counts and trends at the municipal-level; racial disparities in Covid-19 deaths and cases; cases in schools and nursing homes; and hospital capacity

SKILLS AND TOOLS

Data wrangling, aggregation, and modeling with R and SQL; Visualization and communication with ggplot2, R Markdown, and Plotly; Mapping with Leaflet, Mapbox, and ArcGIS; Collaboration with Git and GitHub