

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

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

- Generate outcome measures and performance indicators for child welfare casework from administrative databases
- Develop 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
- Collaborate 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
- Create internal R package with functions to support analysis including address geocoding, database connections, common data aggregations, and ggplot2 themes and palettes
- Manage two analysts and support their work product and professional development by conducting frequent code review and teaching R classes

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

Measure of America Brooklyn, NY
Data Analysis Intern Jan 2017 – June 2017

- Obtained, cleaned, and analyzed large public datasets including the American Community Survey
- Created maps, graphs, and charts of demographic, economic, and health indicators

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 **nygeo** 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