

# Matt Herman

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## EDUCATION

**City University of New York, Hunter College**

Master of Science in Applied Social Research

New York, NY

May 2018

**Columbia University, Columbia College**

Bachelor of Arts in American Studies

New York, NY

May 2006

## EXPERIENCE

**Council of State Governments Justice Center**

*Data Scientist, Research Division*

New York, NY

July 2022 – present

- 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**

*Deputy Director, ChildStat Data*

*Senior Analyst, ChildStat Data*

New York, NY

March 2020 – July 2022

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**

*Research Intern*

New York, NY

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**

*Door-to-Door Facilitator*

*Development Associate*

Brooklyn, NY

Nov 2008 – Sept 2011

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