

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

NYC Administration for Children's Services
Deputy Director, ChildStat Data

New York, NY
March 2020 – present

- Build Covid-19 “Early Alert Dashboard” to track week-to-week changes in child protection metrics
- 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

Senior Analyst, ChildStat Data

January 2019 – March 2020

- Generate outcome measures and performance indicators for investigations of child abuse and neglect from internal 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

Center for Innovation through Data Intelligence, Office of the Mayor
Research Intern

New York, NY
June 2017 – present

- 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

Brooklyn, NY
Nov 2008 – Sept 2011

- 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, including audio files, photographs, and demographic data

Development Associate

May 2007 – Nov 2008

- Managed individual giving programs through targeted communications
- 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

Proficient with R, SQL, Git/GitHub, ArcGIS, machine learning, statistical modeling, natural language processing