

Madelyn B. Goodman

DATA SCIENTIST

EXPERIENCE

Data Manager | ICAP at Columbia University

SEP-JAN 2020 - 2022, NEW YORK, NY

- Collaborated cross-functionally with a team of 5 research nurses and 4 coordinators, presenting insights from analysis of quality assurance data
- Pursued a self-directed project to streamline the tracking of data quality using data capture forms on REDCap reducing site-wide errors by 10% last quarter
- Supported the management of 5 active clinical protocols, balancing competing priorities

Analyst | Spark Street Advisors

JUNE - SEP 2020, NEW YORK, NY

- Supported clients ranging from policy consultants to tech firms in identifying trends and making recommendations for shifting objectives and priorities

Community HIV Outreach Volunteer | U.S. Peace Corps

JAN 2017 - 2018, GAUTENG, SA

- Quantified the impact of 5 self-directed projects and programs implemented in the community for quarterly reports

EDUCATION

BrainStation | Diploma, Data Science

JAN 2022 - APR 2022, NEW YORK, NY

University of The Witwatersrand | Masters in Epidemiology and Biostatistics

JAN 2019 - 2021, GAUTENG, SA

The Johns Hopkins University | Bachelor of Arts in Public Health Studies and Natural Sciences

SEP 2012 - 2016, BALTIMORE, MD

PROJECTS

Principle | CryptoPunk Price Predictions

MAR 2022, BRAINSTATION CAPSTONE PROJECT

- Used neural networks in PyTorch to predict CryptoPunk price movements

Principle | Relationships Between Adolescent Pregnancy, Income Inequality, and Depression in South Africa from 2013-2017

2019 - 2021, MSC THESIS PROJECT

- Logistic regression analysis in STATA utilizing multiple imputation

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SKILLS

Programming

Python, Seaborn, R, SQL, Hadoop, GitHub, STATA, Tensorflow, Keras, PyTorch, Spark, Hive

Analytical strategies

Hypothesis testing, A/B tests, Parametric and non-parametric tests, machine learning,

Data visualization tools

Tableau, Matplotlib, Bokeh, Plotly

BI platforms

Google Analytics, AWS

PROFILE

My curious nature lends itself to the field of data science. With a background in Epidemiology I have a strong inclination towards constructing narratives through interpreting complex predictive models while avoiding technical jargon. I plan on bringing this curiosity in the power of data to a tech-based context, shaping smart business decisions to enable the pursuit of a mission I believe in.

Further details on my research and volunteer experiences are available on my personal website and by request.