

JOSHUA ROSEN

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EDUCATION

NORTHEASTERN UNIVERSITY

Doctor of Philosophy in Public Policy

Boston, MA

Begin Fall 2023

GEORGETOWN UNIVERSITY

Master of Science in Data Science

Washington, DC

May 2023

THE GEORGE WASHINGTON UNIVERSITY

Bachelor of Arts in Public Policy, Minor in Mathematics

Washington, DC

May 2021

RELEVANT EXPERIENCE

COMCAST

Research Intern

Philadelphia, PA

May 2022 – July 2023

- Utilized SQL, Python, and R to query, clean, visualize, perform inferential models, and present data in order to strengthen Comcast's ACP enrollment effort.
- Constructed quasi-experimental econometric models to estimate treatment effects for internet enrollment.
- Analyzed 2017-2021 wireline broadband enrollment growth to establish non-ACP counterfactual through Bayesian hierarchical timeseries modeling.
- Assisted with Comcast effort to operationalize HUD affordable housing programs (LIHTC, HCV) for internet enrollment.

MASSIVE DATA INSTITUTE

MDI Scholar

Washington, DC

Fall 2022

- Provided basic analysis/visualizations to illustrate the potential of Georgetown University's Civil Justice Data Commons tools.
- Assisted in the building and documentation of a pipeline to produce reproducible court data for future researchers.

MCCOURT SCHOOL OF PUBLIC POLICY

Graduate Teaching Assistant, PPOL 670: Introduction to Data Science

Washington, DC

Spring 2022

- Provided students with additional instruction/feedback on introductory data science topics, including: Basics of Git/Version Control, Data Visualization, Web Scraping, Geospatial Data, Cloud Computing, Supervised and Unsupervised Statistical Learning.
- Assisted students with creating more efficient, reproducible, and well-documented code.
- Debugged errors in R code.

USPS OFFICE OF INSPECTOR GENERAL

Student Cooperative, Office of Audit

Washington, DC

Summer 2021 - Winter 2022

- Utilized RStudio and Python to scrape, clean, and further manipulate large, structured datasets to identify and predict patterns in sexual harassment filings
- Provided data-based insight for the creation of statistically representative survey to analyze sexual harassment at the USPS

SKILLS

Programming Languages: R, Python, SAS, SQL, C++, MATLAB

Database and Data Manipulation: SQL, PySpark, Hadoop

Cloud Computing and Infrastructure: AWS

Statistical Software Analysis: Stan, SPSS

Data Visualization and Reporting: Tableau, RShiny