

# Nathan Huey Lovin

nathanlovin.com  
Washington, D.C.

## Technical Skills

- **Data Science Expertise:** R, Python, Git, SQL, Tableau, ArcGIS
- **Other Data Science Skills/Technologies:** dbt, database engineering, Airflow, linux server administration
- **Methods:** statistical modeling incl. bayesian & multilevel models, machine learning, survey analysis & design
- **Communications and Design:** HTML, CSS, Microsoft Office Suite, Adobe Audition, Adobe Premiere

## Education

- Ph.D. work in Political Science, University of Maryland — Fall 2020 (no longer pursuing)
- M.A. in Political Science (Focus: Statistical Methods), University of Maryland — May 2017
- B.A. in History and International Relations, Virginia Tech — May 2011

## Professional Experience

### Universal Service Administrative Company — Data Analyst

*Sept. 2019 to present*

- Analyze large sets of data using R and Python to identify opportunities to improve the efficiency, integrity, and stakeholder experience of Universal Service program participants
- Communicate findings and metrics via well-maintained Tableau and R-Shiny tools
- Develop curated datasets in our Tableau environment using custom SQL for various stakeholders around the company.

*Project example:* Developed various predictive cost models for our Finance and Fraud/Risk teams to make it easier for them to discover potentially fraudulent funding requests by highlighting unusual behavior in the data. Created a series of tools and reports depending on the teams' different needs. Additionally, created reports and gave presentations to communicate these efforts to appropriate c-suite executives.

### Georgetown University — Instructor

*Jan. 2019 to May 2020*

- Designed and taught a course on data science tailored to public policy students, using R and Python to explore topics such as data wrangling, version control, reproducible examples, machine learning, and text analysis
- Guided students in collecting real-world datasets, designing models, and conducting analyses to determine and articulate policy proposals
- Oversaw the development of machine learning models to evaluate and propose solutions for topics such as improving the efficiency of the New York City public transit system

### University of Maryland — Data Analyst: Departmental Trends and Metrics

*Jan. 2016 to Jun. 2019*

- Collected and analyzed publication and citation data on major political science departments to evaluate the university's relative academic performance
- Built a multi-decade data warehouse and evaluated the university's Ph.D. retention rate as well as the success rate of individual faculty members
- Collaborated with faculty on the collection and analysis of datasets to support research, data visualization, academic writing, and statistical modeling using R, STATA, and ArcGIS
- Managed the data collection process — including overseeing 3 undergraduate researchers — for a precinct-level primary election project, gathering data from 14 states, organizing them in a data warehouse for associated scholars to use in their research