

Alexander J. Adams

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Education

Georgetown University <i>McCourt School of Public Policy, Master of Science in Data Science for Public Policy</i>	Washington, D.C. <i>Expected May 2022</i>
Florida State University <i>Bachelor of Arts in Spanish, summa cum laude</i> <i>Bachelor of Science in Political Science with honors, summa cum laude</i> <i>Undergraduate Honors Thesis: "Waking Up From the American Dream: Examining Attitudes Toward Economic Mobility Among American Voters" (2019)</i>	Tallahassee, FL <i>May 2020</i> <i>May 2020</i>

Experience

Graduate Research Assistant - Georgetown University Initiative on Innovation, Development, and Evaluation (gui2de) <ul style="list-style-type: none">• Collect and clean data on protests and demonstrations across the United States from Twitter• Perform text analysis using Python to identify relevant themes in tweets• Compare crime rates across the United States with data related to the ongoing COVID-19 pandemic to assess possible relationships	Washington, D.C. <i>August 2021 - Present</i>
MDI Scholar - Georgetown University Massive Data Institute (MDI) <ul style="list-style-type: none">• Code original R scripts based on the <i>tidyverse</i> and <i>pscl</i> packages to assess partisanship among members of Congress using roll call voting data and contribute these scripts to a GitHub repository.• Examine roll call data to identify specific votes which are responsible for skew in conventional measures of partisanship (i.e. W-NOMINATE).• Use <i>rvest</i> package to write web scraper code to gather textual data on political candidates	Washington, D.C. <i>January 2021 - Present</i>
Senior Media Editor - Georgetown Public Policy Review (GPPR) <ul style="list-style-type: none">• Design interactive maps, charts, and graphs in Tableau Desktop to accompany policy articles.• Format articles and visualizations for publication on the GPPR website.• Coordinate with other media editors to delegate assignments and track article publication status.	Washington, D.C. <i>September 2020 - Present</i>
Teaching Assistant - Florida State University <ul style="list-style-type: none">• Facilitated class discussions informing first- and second-year students about academic research and campus resources.• Evaluated students' written reflections, original research posters, and public speaking to prepare them for the university undergraduate research showcase.• Organized lesson plans on basic ethics in academic research, how to read and understand academic articles, practicing public speaking, the structure of the university honors program, and constructive study habits for college students.	Tallahassee, FL <i>May 2018 - May 2020</i>

Intern, Executive Office - Michigan Department of State

Lansing, MI

June 2019 -

August 2019

- Contributed to a project to identify precincts with limited access to departmental services in urban communities.
- Staffed the secretary's town halls to inform communities about new voting provisions and redistricting efforts.
- Organized notes on the secretary's election security and modernization commissions.

Skills

Languages: English (Native), Spanish (Full Professional Proficiency)

Technical: Proficient in Python, R, Google Suite (Docs, Sheets, Slides, Forms), Microsoft Office, Qualtrics, Tableau, Git, Markdown, LaTeX

Package Experience:

Python: folium, numpy, pandas, plotnine, scikit-learn

R: leaflet, pscl, raster, shiny, sf, sp, tidyverse, tmap

Relevant Coursework

PPOL683: GIS in R

Fall 2021, McCourt School of Public Policy, Georgetown University

- Main packages used (R): leaflet, raster, sf, sp, tmap, tidyverse
- Converting between different coordinate reference systems
- Visualizing rasters and spatial data (points, lines, polygons)
- Statistical analysis with spatial data
 - Spatial autocorrelation (Moran's I)
- Final project: Assessing and visualizing the impact of local health department social media on COVID-19 outcomes at the county level in the United States

PPOL565: Applied Statistical Learning

Spring 2021, McCourt School of Public Policy, Georgetown University

- Main packages used (Python): numpy, pandas, scikit-learn
- Data analysis using machine learning algorithms
 - Decision tree, k-nearest neighbors, random forest, logistic regression
- Development of data modeling and preprocessing pipeline using scikit-learn
- Final project: Identifying factors and demographic characteristics which predict higher degrees of support for publicly-funded healthcare in the United States