**Nathaniel Flemming**

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**EDUCATION**

**Ph.D., Political Science and Social Data Analytics** Expected May 2025

*Metropolitan Fragmentation and Inequities in the Provision of Public Services*

The Pennsylvania State University

**M.A. Political Science** May 2022

The Pennsylvania State University

**M.A. (Honors) Politics with Quantitative Methods (equivalent to B.A.)** June 2020

*1st Class*

The University of Edinburgh

**TECHNICAL SKILLS**

**Programming:** R, Python, STATA, Java, GitHub

**Libraries:** R (dplyr, ggplot2, stringr, tidyr, lme4), Python (NumPy, Pandas, Matplotlib, Scikit-learn, Selenium, Mesa)

**RESEARCH EXPERIENCE**

**THE PENNSYLVANIA STATE UNIVERSITY**

***Research Assistantships*** *– Department of Political Science*

Supervisor – Lee Ann Banaszak **Fall 2021-Spring 2023**

* Guided and assisted the collection of data for a project examining how routine voter maintenance harms minority groups by removing them from voting rolls at disproportionately high rates
* Trained and managed undergraduate students collecting data, including creating a codebook
* Compiled state voter registration and voter roll maintenance procedures, researched state election official selection processes, and filed FOIA requests to obtain records of election officials

Supervisor – Christopher Witko **Summer 2022**

* Created panel data sets to track interstate migration by using R to clean and reformat data from the ACS, the SIPP, and the PSID

Supervisor - Michael Nelson **Summer 2021**

* Conducted a literature review and did data work for a study investigating the political costs of attacking courts
* Collected, cleaned, and coded sociodemographic information for State Supreme Court and Court of Appeals Judges using R

Supervisor - Michael Nelson**Fall 2020**

* Obtained and cleaned data on COVID cases for the UK and Spain and merged them with survey data on political preferences using STATA and R to assess the political consequences of COVID case rates

**THE UNIVERSITY OF EDINBURGH**

***Research Assistant*** *– School of Social and Political Science* **Summer 2018**

Supervisor – Alexander Janus

* Helped write a research paper on the effect of social participation on the wellbeing of the elderly
* Used STATA to clean and process time use data on the social lives of the elderly and aided in research design

**TEACHING EXPERIENCE**

**THE PENNSYLVANIA STATE UNIVERSITY**

***Teaching Assistant*** *-* Quantitative Political Analysis, Suzanna Linn **Spring 2021**

* Assisted in instructing an undergraduate class on quantitative analysis.
* Provided instruction; developed material for lectures and quizzes; graded assignments, tests, and quizzes; maintained regular office hours to provide academic support for students

**THE UNIVERSITY OF EDINBURGH**

***Data Coach*** *- Students as Change Agents* **2019-2020**

* Provided data usage and analysis training to help students participating in a university run thinktank tackle challenges based on the UN Sustainable Development Goals
* Mapped out project steps to structure the data collection and usage process and created and administered training materials to teach participants basic data skills in Excel

**WORK EXPERIENCE**

**RAND Corporation, Remote**

***Adjunct Researcher*** *– Project Air Force* **Fall 2024-present**

**RAND Corporation, Remote**

***Summer Associate*** *– Project Air Force* **Summer 2024**

* Constructed a composite index using commercial GIS, census, and other federal data to measure quality of life for Air Force service members and their families living in communities around Air Force bases, paying special attention to issues of diversity and racial and gender disparities
* Delivered a presentation to RAND staff describing the index and providing recommendations on its usage

**THE DEPARTMENT OF LABOR, Remote**

***Data Analytics Fellow*** *– Chief Evaluation Office* **Summer 2023**

* Helped the EBSA gain an understanding of the insurance price files published under the Transparency in Coverage (TiC) rule and how to access and work with the data inside them
* Used Python to extract and perform basic analyses on requested data from large JSON files
* Wrote and delivered a brief and presentations to the DOL and the EBSA describing the data and its value and challenges, and offering recommendations improving its accessibility
* Reviewed and edited research briefs on black lung incidence and the employment of women and people of color in the construction industry for the MSHA and OFCCP

**THE SCOTTISH GOVERNMENT, Edinburgh, Scotland**

***Intern*** *– Office of The Chief Statistician* **Summer 2019**

* Researched the feasibility of small area estimation methods in the production of government statistics for small geographies
* Produced a report summarizing the findings and making recommendations about the use of different small area estimation techniques

**AWARDS AND FELLOWSHIPS**

**Center for American Political Responsiveness Fellowship 2023**

The Pennsylvania State University

**Florence and Angelo Paterno Graduate Fellowship in the Liberal Arts 2023**

The Pennsylvania State University

**Carsey Award** **2022**

State Politics and Policy Conference

**Outstanding M.A. Thesis Award** **2022**

The Pennsylvania State University

**External Funding Incentive Award 2021**

The Pennsylvania State University