

# Piper Macke

piper.macke@gmail.com 859-750-4250

Washington, District of Columbia

## Summary

Graduating GWU student majoring in Data Science with experience in team leadership roles as demonstrated by time as a Division One athlete; looking for roles to leverage skills in data analysis, reporting, visualization, and front-end web development

## Education

### The George Washington University

2020-2024

Bachelor of Science in Data Science, Concentration in Data Journalism • Washington, D.C. • 3.71 GPA

- Presidential Academic Scholarship recipient
- **Dean's List:** Columbian College and Arts and Sciences

## Skills

- Data analysis and visualization in R, Python (NumPy, Matplotlib, Pandas), and Stata
  - Foundational understanding of relational and non-relational database management
  - Frontend web application development
  - Introductory machine learning knowledge
    - (clustering, decision trees, calculating entropy, building confusion matrices)
  - Excellent written and oral communication with capability to convey complex results in an understandable way
- |   |
|---|
| RStudio - 2 yrs                         |
| Posit Cloud - 2 yrs                     |
| Python - 2 yrs                          |
| Stata - < 1 yr                          |
| MySQL, MongoDB, Neo4j - < 1 yr          |
| HTML, Javascript, JQuery, CSS - 1.5 yrs |
| Github - 2 yrs                          |

## Projects

### Politics in Crime • Multiple Regression Analysis of Political Leaning and Crime Fall 2023

Paper examining the link between political leaning and reported frequency of specific crimes in the U.S. using a World Values Survey dataset to conduct a regression analysis in Stata

### Assessing Division One Potential • Predictive Basketball Data Visualization Spring 2023

Comprehensive RStudio data visualization leveraging a Github dataset of 14,000+ women's college basketball players and comparing key variables to determine probability of a high schooler playing Division One in college

### RecipeGram • Frontend Web Application for Recipe Trading Fall 2023

Hypothetical profitable business where users can earn in-app currency through engagement, developed as a frontend web application to showcase proficiency in HTML, Javascript, JQuery, and CSS

### Working Portfolio • Personal Quarto Website Coded in Posit Cloud Current

In-progress website containing all mentioned projects as well as other written and technical works; access at <https://pipermacke.github.io/piperwebsite/>

## Professional Experience

### U.S. House of Representatives | Undergraduate Research Fellow 06/2023 - 08/2023

- Experience in stakeholder engagement through meetings with Congressional members and involvement in various hearings initiated by the Select Subcommittee on the Coronavirus Pandemic
- Deadline management for hearing transcripts, interviews, and investigations to support committee operations
- Conducted cross-committee research to deliver valuable correlational insights to team regarding relevant information discussed outside the Select Subcommittee

## Athletics and Leadership

### Division One Women's Basketball Player

2020-2023

The George Washington University • Washington, D.C.

- Balanced 20-40 weekly hours of athletic obligations in addition to academics, led several campus tours for prospects, and scheduled regular meetings with coaches for individual improvement
- Member of LEAPP (Leadership Excellence: Acquire, Practice, Perform) alongside other specially chosen university athletes for their leadership ability