

Alyssa Rogers-Armstrong

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EDUCATION

Virginia Tech - Alexandria, VA	May 2025
MA in Data Analytics and Applied Statistics	GPA 3.875
<i>Key Coursework:</i> Statistical Learning, Advanced Regression Methods, Experimental Design, Data Analytics	
<i>Capstone:</i> "Exploring English Language Learner Outcomes Through Funding and Staffing Patterns in ACPS"	
• Applied mixed-effects modeling and principal component analysis (PCA) to evaluate relationships between funding patterns, staffing ratios, and ELL outcomes.	
University of Pittsburgh - Pittsburgh, PA	May 2021
Bachelor of Arts in Gender Sexuality and Women's Studies	GPA 3.30
Minors – Sociology, Political Science	

TECHNICAL SKILLS AND METHODS

Programming & Analysis: R (advanced), Python, SQL
Visualization & Reporting: Tableau, Excel, ggplot2, R Markdown, flexdashboard
Analytical Methods: Predictive modeling, regression, causal inference, quasi-experimental design, survey design, program evaluation
Certifications: Google Data Analytics Certificate (2022)

PROFESSIONAL WORK EXPERIENCE

Alexandria City Public Schools - Alexandria, VA	August 2021 – Present
Mathematics Teacher, Mathematics Department Chair, Team Lead	
• Taught a total of 600 students 7th-grade accelerated and general math.	
• Developed and implemented data dashboards tracking performance across students each year.	
• Built positive relationships with students to promote academic success.	
• Facilitated teacher coaching sessions focused on data literacy and evidence-based instruction.	
Bureau of Labor Statistics - Washington, D.C.	June 2024 – June 2025
Mathematical Statistician Intern	
• Conducted nonresponse bias analysis on federal survey data (>1M observations) using SAS and R.	
• Prepared comprehensive reports summarizing findings and recommendations, and presented research.	
• Collaborated with senior statisticians to produce policy-oriented research briefs for internal review.	
Teach for America - Washington, D.C.	June 2021 – June 2023
2021 Corps Member	
• Collaborated with cross-functional teams to align classroom data tracking with district performance goals.	
• Applied equity-centered analysis to identify and address opportunity gaps in student learning outcomes.	

VOLUNTEER and OTHER EXPERIENCE

Teach for America - Washington, D.C.	August 2023 – August 2025
Green Leadership Fellow	
• Designed and led professional development on data literacy for new educators, focusing on leveraging student data for instructional decisions.	
AmeriCorps - Washington, D.C.	June 2021 – July 2023
Volunteer	