

Alyssa Rogers-Armstrong

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EDUCATION

Virginia Tech - Alexandria, VA MA in Data Analytics and Applied Statistics <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” <ul style="list-style-type: none">Applied mixed-effects modeling and principal component analysis (PCA) to evaluate relationships between funding patterns, staffing ratios, and ELL outcomes.	May 2025 GPA 3.875
University of Pittsburgh - Pittsburgh, PA Bachelor of Arts in Gender Sexuality and Women’s Studies Minors – Sociology, Political Science	May 2021 GPA 3.30

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 Mathematics Teacher, Mathematics Department Chair, Team Lead <ul style="list-style-type: none">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.	August 2021 – Present
Bureau of Labor Statistics - Washington, D.C. Mathematical Statistician Intern <ul style="list-style-type: none">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.	June 2024 – June 2025
Teach for America - Washington, D.C. 2021 Corps Member <ul style="list-style-type: none">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.	June 2021 – June 2023

VOLUNTEER and OTHER EXPERIENCE

Teach for America - Washington, D.C. Green Leadership Fellow <ul style="list-style-type: none">Designed and led professional development on data literacy for new educators, focusing on leveraging student data for instructional decisions.	August 2023 – August 2025
AmeriCorps - Washington, D.C. Volunteer	June 2021 – July 2023