

Michael J. Armah

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Education

Northwestern University, Evanston, IL

PhD Candidate in Statistics and Data Science

Advisors: Dr. Elizabeth Tipton and Dr. Larry Hedges

Areas of Emphasis: Meta-Analysis, Machine Learning, Unsupervised Learning, Applied Research

Expected Graduation: Spring 2027

Northwestern University, Evanston, IL

Masters of Science in Statistics and Data Science

Graduation: Spring 2025

University of North Carolina, Chapel Hill, NC

B.S. in Statistics and Analytics; B.A. in Economics; Minor in Neuroscience

Areas of Emphasis: Financial Analysis, Data Analytics, Statistical and Scientific Modeling

Honors: Dean's List (Fall 2018-Spring 2021)

Graduated: May 2021

London School of Economics, London, England

Study Abroad Program, June 2019 - July 2019

Studied Econometrics and Economic Development; Programming in Stata

Relevant Coursework

Statistics: Statistical Theory and Methodology, Design and Analysis of Experiments, Statistical Computing, Probability for Statistical Inference, Multivariate Analysis, Regression Analysis, Machine Learning, Meta-Analysis, Optimization, Stochastic Modeling, Sports Analytics, Decision Analytics

Mathematics: Probability Theory, Discrete Mathematics, Proof-based Linear Algebra, Multi-variable Calculus, Optimization

Economics: Econometrics, Economic Development, Microeconomics Theory

Programming: Statistical Programming with R, Programming in Python, Design and Analysis of Experiments in SAS, Programming in STATA, Programming and Data Science in JavaScript, Optimization in Excel

Consulting and Research

Consultant, Randomized Control Trials (RCT) Summer Institute, Northwestern University
Summers 2023 and 2024

- Advised interdisciplinary research groups on RCT design, implementation, and analysis.
- Helped participants prepare mock proposals presented to the NCER Commissioner.

Research Assistant, Statistics for Evidence-Based Policy and Practice (STEPP) Center, Institute for Policy Research at Northwestern University

- Work with Dr. Larry Hedges and Dr. Elizabeth Tipton to support research, policy consulting, and data analysis dissemination.
- Provide analytical support to projects and initiatives that originate from or are affiliated with the STEPP Center.

Honors and Awards

Northwestern University
University Fellowship (Fall 2022 - Summer 2027)

The University of North Carolina
Dean's Honors List (Fall 2018-Spring 2021)

Teaching Experience

Teaching Assistant, Northwestern University, Department of Statistics and Data Science
September 2023 - Present

- STAT 350: Regression Analysis
- STAT 301-1/2/3: Data Science with R Sequence
- STAT 210: Introduction to Probability and Statistics
- Responsibilities include delivering instruction via office hours, leading discussion sessions, and grading for 100+ students.

Work Experience

Enterprise Risk Associate, Independent Testing and Validation, Wells Fargo, Charlotte, NC
July 2021 - August 2022

- Reviewed and tested models to identify risk through statistical and non-statistical analyses.
- Collaborated with internal stakeholders across business and risk teams.
- Supported execution of compliance and risk control initiatives.

Enterprise Risk Intern, Market and Counter-party Risk, Wells Fargo, Charlotte, NC
July 2020 - August 2020

- Supported Market and Counter-party Risk projects.
- Assisted in executing strategic risk-related initiatives and reporting trends to stakeholders.

Leadership and Service

Treasurer, Black Graduate Student Association (BGSA), Northwestern University
August 2023 - August 2025

- Executive board member for over 2 years, managing an annual budget exceeding \$25,000.
- Organize events and collaborate with organizations serving 150+ graduate students across 9+ schools.

Mentor, The Graduate School Peer Mentor Organization, Northwestern University
August 2024 - present

- Provide resources, community and guidance on challenges faced by individuals in The Graduate School at Northwestern. Help students identify end-of-year goals. Organize and plan reasonable methods to achieve the student's end of year goal. Consistently be in communication with students to ensure progress on their goals.
- Aid students as they navigate Evanston and Chicago. Be a point of contact as the student assimilates into a new environment.

Member, Black Men Lead, Northwestern University
August 2022 - present

- Serve as a catalyst for convening Black and African-American males in Evanston
- Identify, examine, and begin to address common themes that advance Black male student success in high school and college
- Offer a platform for Black and African-American men to share their diverse narratives, world-views, and identities

Skills and Interests

Technical Skills: R, Python, Stata, SAS, JavaScript, Excel

Interests: PAWS Chicago, Film Photography, Basketball, AI, Theatre, International Travel, Carolina Cars Club

Core Values: Community, Communication, and Collaboration