Michael J. Armah

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Education

Northwestern University, Evanston, IL
PhD Candidate in the Department of Statistics and Data Science
Advisor: Dr. Elizabeth Tipton
Areas of Emphasis: Meta-Analysis, Machine Learning, Unsupervised Learning, Applied Research
Expected Graduation: Spring 2027

Northwestern University, Evanston, IL
Master of Science in Statistics and Data Science
Graduated: June 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
Graduated: May 2021

London School of Economics, London, England
Study Abroad Program
Studied Econometrics and Economic Development; Programming in Stata
Certificate Earned: July 2019

Honors, Awards, Memberships

National Science Foundation (NSF)
Grant (2024)

Institute of Education Services (IES)
Grant (2023, 2024, 2025)

Northwestern University
University Fellowship (Fall 2022 - Summer 2027)

Northwestern University
The Graduate School Conference Grant (2025)

Northwestern University
The Department of Statistics and Data Science Conference Grant (2025)

Society for Research on Educational Effectiveness
Society Membership (Summer 2025 - present)

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

Working Papers

Pössel, P.,..., Armah, M, ..., et al. A 'Many Analysts' Evaluation of Race as a Moderator of the Relationship Between Attributional Style and Depressive Symptoms in Youth in the United States. *American Psychologist.* Under Review.

Armah, M & Tipton, E. Unsupervised Learning for Meta Analysis: Identifying Methods for Factor Analysis and Clustering in Meta-Analyses with High-Dimensional Mixed-Data. Working Paper

Consulting and Research

Consultant, Randomized Control Trials (RCT) Summer Institute, Northwestern University
Summers 2023, 2024, 2025
Funded by Institute of Education Services (IES)

- Provide researchers attending the annual workshop an introduction to the design, conduct, analysis and interpretation of large efficacy and effectiveness trials

- Consult groups of interdisciplinary researchers on how to properly implement randomized trials, write a mock research proposal, and present their project to the NCER Commissioner, ultimately receiving a certificate of completion

Instructional Staff, National Science Foundation Summer Research Institute - Improving Research and Development in STEM Education Northwestern University
Summers 2024
Funded by National Science Foundation

- Provide an introduction to the design and analysis of evaluation studies (small efficacy studies) to researchers with little statistical background

- Host lab sessions and oversee group projects that to allow participants the opportunity to practice the use of tools for evaluation design

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

- Work with Yidan Prize Winner, 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

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 in order to identify potential risks and/or gaps through statistical and non-statistical random sample analysis for various lines of business and report findings to management

- Participated in and provided consulting for internal stakeholders, lines of business, enterprise groups, and risk partners

- Resolved compliance matters; supplied strategic support to risk and control teams in execution of initiatives

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

- Support Market and Counterparty Risk on projects and initiatives; worked with other Enterprise Risk groups and partners

- 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

Social Coordinator, The Department of Statistics and Data Science, Northwestern University
August 2022 - August 2024

- Served as the point of contact for students looking for an enhanced community experience during graduate school

- Coordinated various events around Evanston and Chicago for all graduate students in the Department

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, worldviews, and identities

Skills and Interests

Technical Skills: R, Python, Stata, SAS, JavaScript, SQL, Excel
Interests: PAWS Chicago, Film Photography, Basketball, AI, Theatre, International Travel
Core Values: Community, Communication, and Collaboration