

# Michael J. Armah

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## Education

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**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

**Northwestern University Kellogg School of Management**, Evanston, IL

Management for PhDs

Certificate Earned: July 2026

## Honors, Awards, Memberships

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**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

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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

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**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

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

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**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

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**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

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**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, world-views, and identities

## Skills and Interests

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**Technical Skills:** Machine Learning, Artificial Intelligence, R, Python, PyTorch, Stata, SAS, JavaScript, SQL, Excel

**Interests:** PAWS Chicago, Film Photography, Basketball, AI, Theater, International Travel

**Core Values:** Community, Communication, and Collaboration