

Arya Gadage

Pre-Doctoral Research Fellow
Program for Economic Research
Columbia University

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RESEARCH INTERESTS

applied microeconomics, decision theory, econometrics, finance, game theory, optimization

EDUCATION

B.S. Mathematics (Applied Mathematics & Statistics)

2021–2025

B.A. German

Business Minor

University of Massachusetts Amherst

GPA: 3.8/4.0

EXPERIENCE

Pre-Doctoral Research Fellow

July 2025–Present

New York, NY

Program for Economic Research, Columbia University

Professors: [M. Best](#), [H. Chang](#)

- Applied Microeconomics, Public Economics

Data Analyst Intern

May 2024–August 2024

Jacksonville, FL

Intercontinental Exchange (ICE, Inc.) - Fixed Income Services (McDash)

- Supported Data Warehouse Operations for the McDash platform through data reconciliation, identifying data anomalies, and verifying data integrity across ELT stages

- Developed a model that predicts property insurance rates incorporating climate risk factors

Quantitative Research Intern

February 2024–May 2024

Boston, MA

Thresher Fixed Income

- Implemented the Nelson-Siegel-Svensson (NSS) model for automated yield curve analysis and actionable trading signals

- Assisted in weekly portfolio rebalancing and monitoring portfolio risk exposures to ensure compliance

Research Intern

May 2023–July 2023

New York, NY

JUST Capital

- Developed data pipelines to analyze ESG disclosures for Russell 1000 companies

- Researched trends in life cycle assessments, net zero commitments, and carbon sequestration initiatives

Research Assistant

January 2023–May 2023

Amherst, MA

Dynamic Memory Modeling Lab, University of Massachusetts Amherst

PIs: [A. Cohen](#), [J. Starns](#)

- Applied models that analyze cognitive development patterns, decision making and memory formation processes, particularly predict response times and choice behavior

TEACHING EXPERIENCE

Supplemental Instructor

Learning Resource Center, University of Massachusetts Amherst

Jan 2022–Dec 2023

Amherst, MA

- Provided math tutoring and academic support to 500+ students (Calculus I, II and Multivariate Calculus)
- Developed supplementary materials and conducted group study sessions

Peer Advisor

University of Massachusetts Amherst

Sep 2024–May 2025

Amherst, MA

- Advise students on academic policies, course selection, and departmental resources
- Provide mentorship on research opportunities and career planning

SCHOLARSHIPS & HONORS

- Chancellor's Award, *UMass Amherst* (merit-based scholarship, \$64,000 over four years)
- Dean's List, Fall 2021–Spring 2025
- iCons Program Certification

TECHNICAL SKILLS

Programming: Python, R, Stata, MATLAB, SQL, L^AT_EX

Tools: Git, Bloomberg Terminal, Databento, Preqlin, PowerBI, Tableau, Azure

Languages: English (native), Hindi (native), Marathi (native), German (proficient)

REFERENCES

Professor Michael Best

Assistant Professor

Columbia University

mcb2270@columbia.edu

Professor Scott Auerbach

Provost Professor

University of Massachusetts Amherst

auerbach@chem.umass.edu

Professor Haoge Chang

Assistant Professor

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Professor Mila Sherman

Fuller and Meehan Endowed Professor

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