

Mahnaz Paydarzarnaghi

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Employment

Roger Williams University , Assistant Professor of Finance	Aug 2025 – Present
University of Texas at Arlington , Research Assistant <i>Department of Civil Engineering. Funded by the Texas Department of Transportation.</i>	Aug 2024 – Aug 2025
University of Texas at Arlington , Adjunct Assistant Professor of Finance	Aug 2024 – May 2025
University of Texas at Arlington , Research Assistant <i>Department of Information Systems & Operations Management</i>	Summer 2022
University of Texas at Arlington , Graduate Assistant	Aug 2020 – July 2024
University of North Texas , Adjunct Assistant Professor of Mathematics	Aug 2019 – Aug 2020
Collin Colleges , Adjunct Assistant Professor of Mathematics	Aug 2019 – Aug 2020
Dallas Colleges , Adjunct Assistant Professor of Mathematics	Aug 2019 – Aug 2020
New Mexico State University , Graduate Assistant	Jan 2017 – Dec 2018

Education

Ph.D. University of Texas at Arlington , Finance and Real Estate	April 2025
M.Sc. New Mexico State University , Mathematics	Dec 2018
M.Sc. Sharif University of Technology , Industrial Engineering	Sep 2014
B.Sc. University of Tehran , Pure Mathematics	Sep 2010

Research Interests

FinTech, Behavioral Finance, Financial Markets

Publications

1. Strategic Bot Activity in Financial Social Media

Mahnaz Paydarzarnaghi and David Rakowski
Finance Research Letters, 2026 ([Link](#) | [SSRN](#))

2. Inferring Accounting Conservatism from Textual Analysis of 10-K Forms

Mahnaz Paydarzarnaghi, J. David Diltz, and Salil K. Sarkar
Managerial Finance, 2025 ([Link](#) | [SSRN](#))

3. Doctoral Dissertation: The Role of Herding Behavior, Credibility, Demographics, and Information Diffusion in Social Media: Insights from Stock and Cryptocurrency Markets

Mahnaz Paydarzarnaghi
University of Texas at Arlington, 2025 ([Link](#))

4. Develop an Interactive Unit Price Estimation and Visualization Tool

Mohsen Shahandashti, *et al.* (incl. Mahnaz Paydarzarnaghi)
Texas Department of Transportation ([Link](#))

Papers Under Review

1. AI Infrastructure and Financial Markets: Evidence from OpenAI Outages

Mahnaz Paydarzarnaghi and David Rakowski

Finance Research Letters, Revise and Resubmit ([Link](#))

2. Social Media Credibility and Financial Market Activity

Mahnaz Paydarzarnaghi, David Rakowski and Mahmut Yasar

International Review of Financial Analysis, Under Review ([Link](#))

3. Social Media Bots, Information Quality, and Financial Markets

Mahnaz Paydarzarnaghi and David Rakowski

The British Accounting Review, Under Review ([Link](#))

4. Emerging Trends of AI in Finance Research: A Topic Modeling Approach

Mahnaz Paydarzarnaghi and Sridhar Nerur

International Review of Economics & Finance, Under Review

Working Papers

1. A Topic Modeling Approach to Tracking the Evolution of Research on SEC 10-K Filings

Mahnaz Paydarzarnaghi and Sima Jannati

2. Who Does the Market Listen to? The Market's Perception of the Demographic Characteristics of Social Media Users

Mahnaz Paydarzarnaghi and David Rakowski

3. Herding Behaviors in Financial Markets: The Influence of Social Media on Market Perceptions

Mahnaz Paydarzarnaghi, Mahyar Sharif Vaghefi, David Rakowski, and Mahmut Yasar

Teaching Experience

Roger Williams University

Aug 2025 – Present

- FNCE 201 – Financial Management
- FNCE.RSRCH.R1 – AI Talk in 10-K Filings
- FNCE.350.02 – Financial Modeling & Valuation

University of Texas at Arlington

Jan 2023 – May 2025

- FINA 5350 – Mathematical Finance (Graduate course in Quantitative Finance)
- FINA 3313 – Business Finance
- FINA 3315 – Investments

University of North Texas, Collin, and Dallas Colleges

Aug 2019 – Aug 2020

- MATH 1780 – Probability Models
- MATH 1180 – College Math for Business, Economics, and Related Fields
- MATH 1190 – Business Calculus
- MATH 2413 – Calculus I
- MATH 1342 – Elementary Statistical Methods
- MATH 1324 – Mathematics for Business and Social Sciences
- MATH 1314 – College Algebra
- MATH 1332 – Contemporary Mathematics

New Mexico State University

Jan 2017 – Dec 2018

- MATH 1215 – Intermediate Algebra
- MATH 1220G – College Algebra

Presentations

AI Symposium: Research and Teaching , Roger Williams University, Bristol, RI	2025
Financial Management Association Annual Meeting , Vancouver, Canada (<i>by co-author</i>)	2025
Future Finance Fest (3F) , Vilnius, Lithuania (<i>by co-author</i>)	2025
Financial Management Association Annual Meeting , Grapevine, TX	2024
University of Texas at Arlington, New Voices Research Symposium , Arlington, TX	2024
Financial Management Association Annual Meeting , Chicago, IL	2023
Southwestern Finance Association , Houston, TX	2023
Eastern Finance Association Annual Meeting , Washington, DC	2022
Financial Management Association Annual Meeting , Atlanta, GA	2022
Southwestern Finance Association , New Orleans, LA	2022
Financial Management Association Annual Meeting , Denver, CO	2021

Professional Service

Reviewer for:

International Review of Financial Analysis (IRFA)
Journal of Economics and Finance (JOEF)
Managerial Finance (MF)
The Southwestern Finance Association (SWFA)
International Conference on Information Systems (ICIS)

Honors and Awards

University of Texas at Arlington

College of Business Endowed Doctoral Scholarship	2024
College of Business Dissertation Research Grant	2024
Dissertation Research Enhancement Grant	2024
Dean's Excellence Scholarship	2023
Graduate Student Travel Grants	2023
Doctoral Graduate Student Award	2023
Carla Buss Memorial Scholarship	2022
Security and Exchange Commission University Roundtable Award	2021

New Mexico State University

Honors Graduate Student Award	2018
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Certifications & Skills

Certifications:

- Certified FinTech Expert™, Blockchain Council ([Link](#))
- Certified Cryptocurrency Expert™, Blockchain Council ([Link](#))
- Certified Artificial Intelligence (AI) Expert™, Blockchain Council ([Link](#))
- IBM Machine Learning ([Link](#))

- Exploratory Data Analysis for Machine Learning ([Link ↗](#))
- Supervised Machine Learning: Regression ([Link ↗](#))
- Supervised Machine Learning: Classification ([Link ↗](#))
- Unsupervised Machine Learning ([Link ↗](#))
- Deep Learning and Reinforcement Learning ([Link ↗](#))
- Machine Learning Capstone ([Link ↗](#))

Programming: Python (with specializations in natural language processing and machine learning), R, Stata, SAS

Web Scraping and API Integration: Reddit, Twitter, StockTwits, Yahoo Finance, Google News, Google Trends

Amazon Web Services (AWS): Data storage, computing, face recognition, image analysis, Amazon Mechanical Turk

Databases: CRSP, Compustat, Bloomberg, IBES, EDGAR, SEC Analytics Suite, Datastream, BoardEx