

Sorour Fatemi

College of Business
California State University, Monterey Bay
☎ (+1) (708)-400-0856
✉ sfatemi@csumb.edu
🎓 Google Scholar 🌐 Website in LinkedIn

Academic Appointments

2025–present **Visiting Assistant Professor**, *California State University, Monterey Bay*, College of Business.

Education

- 2019–2024 **Ph.D. Management Information Systems**, *University of Illinois Chicago*, Chicago, USA.
Dissertation Title: Emergent Abilities of LLMs in Finance
Committee Chair: Yuheng Hu
Committee Members: Sid Bhattacharyya, Yingda Lu, Stanley Sclove, Xiaomo Liu (J.P. Morgan Chase)
- 2013–2016 **M.Sc., Industrial Engineering**, *University of Tehran*, Tehran, Iran.
- 2008–2012 **B.Sc., Computer Engineering**, *Isfahan University of Technology*, Isfahan, Iran.

Research Interests

- Topics Large Language Models (LLMs) and Generative AI, Multi-Agent AI Systems, Financial Technology (FinTech), Business Analytics and Decision Making, AI-driven Diagnostics
- Methods Machine Learning, Deep Learning, Natural Language Processing, Econometric Modeling

Publications

Journal Articles

- 2025 **S. Fatemi, Y. Hu, M. Mousavi**, *A Comparative Analysis of Instruction Fine-Tuning Large Language Models for Financial Text Classification*, *ACM Transactions on Management Information Systems, Special Issue on Impacts of Large Language Models on Business and Management*.
- 2023 **E. Basak, R. Al Balawi, S. Fatemi, A. Tafti**, *When Crisis Hits: Bike-Sharing Platforms amid the Covid-19 Pandemic*, *PLoS ONE*, Volume 18, Issue 4.

Conference Proceedings

- 2024 **S. Fatemi, Y. Hu**, *Enhancing Financial Question Answering with a Multi-Agent Reflection Framework*, *5th ACM International Conference on AI in Finance (ICAIF'24)*.
- 2024 **S. Fatemi, Y. Hu**, *FinVision: A Multi-Agent Framework for Stock Market Prediction*, *5th ACM International Conference on AI in Finance (ICAIF'24)*.

Working Papers

- S. Fatemi, A. Sanatizadeh, R. Mousavi, A. Abbasi, B. Kitchens**, *Multi-Agent LLMs vs. AutoML for Tabular Classification*, *Draft complete and ready for submission*.
- S. Fatemi, Y. Hu**, *Judge-Guided Monte Carlo Tree Search for Stock Trading*, *Data preparation and analysis complete*.
- S. Fatemi, Y. Hu**, *Measuring AI Washing: LLM-Based Detection and Market Consequences*, *In progress*.

Teaching Experience

- 2025– **California State University, Monterey Bay.**
Fall 2025: BUS 301: Principles of Business Analytics
- 2020–2024 **University of Illinois Chicago.**
Fall 2023: IDS 575: Machine Learning Statistics
Summer 2023: IDS 355: Operations Management
Summer 2022: IDS 270: Introduction to Business Statistics
Spring 2022: IDS 521: Advanced Database Management
Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023: IDS 572: Data Mining for Business
Fall 2020, Spring 2021, Summer 2021, Fall 2021, Fall 2022, Spring 2023: IDS 200: Introduction to Management Information Systems, *Lab Instructor*
Fall 2020, Spring 2021: IDS 570: Statistics for Management

Fellowships & Awards

- 2024 **Business Analytics Scholarship**, University of Iowa Tippie College of Business
- 2019–2024 **Doctoral Scholarship and CBA Doctoral Fellowship**, Department of Information and Decision Sciences, University of Illinois Chicago
- 2019–2024 **Graduate Assistantship**, Department of Information and Decision Sciences, University of Illinois Chicago

Presentations & Conference Participation

- 2025 Session Chair, "*Machine Learning and Generative AI*", **INFORMS 2025**, Seattle, USA
- 2025 Guest Lecturer, "*AI Agent Applications in Finance*", **Machine Learning Course (IDS572)**, University of Illinois Chicago
- 2024 Presented "*A Comparative Analysis of Instruction Fine-Tuning Large Language Models for Financial Text Classification*", **INFORMS 2024**, Seattle, USA
- 2024 Presented "*A Comparative Analysis of Fine-Tuned LLMs and In-Context Learning of LLMs for Financial Sentiment Analysis*", **AAAI 2024 Workshop on AI in Finance for Social Impact**, Vancouver, Canada
- 2023 Session Chair, "*Applications of Deep Learning for Predictive Modeling*", **INFORMS 2023**, Phoenix, USA
- 2023 Presented "*Predicting Stock Market Trends Utilizing LLMs*", **INFORMS 2023**, Phoenix, USA
- 2023 Presented "*A Comparative Analysis of Fine-Tuned LLMs and In-Context Learning of LLMs for Financial Sentiment Analysis*", **ICAIF'23 Workshop on NLP and Network Analysis in Financial Applications**, New York, USA

Professional Activities

Referee Activities

- 2025 Journal of Financial Data Science
- 2025 Knowledge-Based Systems
- 2023 ACM Transactions on Management Information Systems, Special Issue on Impacts of Large Language Models on Business and Management

University Service

- 2025–present Community & Belonging Committee Member, College of Business, California State University, Monterey Bay

2021–2022 Department Representative, Graduate Student Council, Department of Information and Decision Sciences, University of Illinois Chicago

Technical Skills

Programming Python, R, SQL, SAS, STATA

AI/ML Hugging Face, OpenAI, LangChain, AutoGen

Frameworks

AI/ML Parameter-Efficient Fine-Tuning (PEFT), Retrieval-Augmented Generation (RAG), Multi-Agent
Methods Systems

Data Science NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch
Libraries