

Amirreza Bagheridelouee

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EDUCATION

- Stanford Graduate School of Business**, Stanford, CA Sep 2024 – Present
Predoctoral Research Fellow (Non-matriculated Student); [Transcript](#)
- **PhD Core:** Microeconomic Analysis I (MGTECON 600), Intermediate Econometrics I, II, III (ECON 270-272)
 - **Graduate:** Convex Optimization I (EE 364A)
- Sharif University of Technology**, Tehran, Iran Sep 2019 – Jul 2024
B.Sc. in Computer Engineering and Minor in Economics (GPA: 3.90/4.00); [Transcript](#) | [Thesis](#)
- **Thesis:** Metric Distortion Under Public-Spirited Voting
- London School of Economics and Political Sciences (LSE)**, London, UK Jul 2023 – Aug 2023
Summer School Student; [Transcript](#)

PUBLICATIONS

Amirreza Bagheridelouee, Marzieh Nilipour, Masoud Seddighin, Maziar Shamsipour, “Metric Distortion Under Public-Spirited Voting”, *Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems, (AAMAS’24)*, pages 2144–2146, 2024.

PREDOCTORAL RESEARCH EXPERIENCE (STANFORD GSB)

- FIFA Ticketing** Sep 2025 – Present
- Scraped digital items data of FIFA collectibles marketplace and blockchain transactions of [Fifachain](#)
 - Supervisor: [Prof. Paulo Somaini](#)
- Congestion Pricing and Carpooling** Jul 2025 – Present
- Collected and organized data of the trips in Manhattan’s CBD using Replica and Google Maps API
 - Literature review on the impacts of parking fees and congestion pricing on carpooling ([Paper](#))
 - Supervisor: [Prof. Michael Ostrovsky](#)
- Modeling Locations of Power Plants, Transmission Lines, and Data Centers** Jul 2025 – Sep 2025
- Developed a model using PowerModels.jl that predicts power generations using bid data and network specifications
 - Investigated and resolved the inconsistencies between ERCOT-SCED bid data and actual power generations
 - Supervisors: [Prof. Ali Yurukoglu](#) and [Prof. Omer Karaduman](#)
- Port Substitution and Congestion in Container Ship Industry** Sep 2024 – Jun 2025
- Implemented an algorithm to assign a unique ID to ships to correct their wrong/missing identifiers
 - Developed a pipeline to clean, merge, and benchmark the customs imports data and goods data
 - Developed a model to estimate trucking costs from underlying factors, accounting for fuel price and wage variations
 - Supervisors: [Prof. Shoshana Vasserman](#) and [Prof. Stephen Redding](#)
- Generative AI in Equilibrium** ([Paper](#)) Sep 2024 – Jun 2025
- Implemented a text embedding model that uses the title + tags of images
 - Difference-in-difference estimation of the GenAI treatment effects using propensity score matching
 - Implement and fine-tune a Random Forest model to predict sales of images using embeddings + keywords
 - Supervisor: [Prof. Samuel Goldberg](#)

OTHER EXPERIENCES

- Research Assistant**, ([Prof. Masoud Seddighin](#), Tehran Institute for Advanced Studies) Aug 2023 – Aug 2024
- Solved the lower/upper bound distortions of different voting rules under public-spirited setting
- Research Assistant**, ([Prof. Poorya Kabir](#), National University of Singapore (NUS)) Feb 2023 – May 2023
- Studied the effect of Medicaid expansion on households’ participation in stock market and holding risky assets
- Algorithmic Trading Intern**, Danesh Co. Jun 2022 – Sep 2022
- Implemented trading algorithms based on the sentiments of social media comments related to the stock market

TEACHING EXPERIENCE

Teaching Assistant, Sharif University of Technology

- **Game Theory**, Lecturers: [Prof. MohammadAmin Fazli](#) / [Prof. Masoud Seddighin](#) Spring 2023, Spring 2024
- **Financial Economics**, Lecturer: Prof. Shiva Zamani Spring 2022, Spring 2023
- **Econometrics**, Lecturer: Dr. Narges Tahmasebi Fall 2022
- **Principles of Economics**, Lecturer: [Prof. Masoud Nili](#) Spring 2022
- **Microeconomics**, Lecturer: [Dr. Saeed Tajrishy](#) Fall 2021
- **Data Structures and Algorithms**, Lecturer: [Prof. Masoud Seddighin](#) Fall 2021

Chemistry Olympiad Teacher (part-time), Sampad High Schools Sep 2018 – Aug 2022

AWARDS & ACHIEVEMENTS

Silver Medal, 51st International Chemistry Olympiad (IChO 2019), Paris, France, July 2019 | [Certificate](#)

Gold Medal, 28th Iran National Chemistry Olympiad, Tehran, Iran, September 2018

NOTABLE PROJECTS AND ESSAYS

Individual Projects

- **Neuroeconomics Essay**: Herding Behavior - Insights from Narrative Economics and Neuroeconomics | [GitHub](#)
 - * Proposed a neuroeconomic hypothesis testing if the same brain regions process narratives and herding behavior
- **Financial Machine Learning Project**: Financial NLP Models | [GitHub](#)
 - * Implemented NLP models of the “Stefan Jensen, Machine Learning for Trading, 2020” book in Julia

Group Projects

- **Systems Analysis and Design Project**: Diabetes Prediction Application | [GitHub](#)
- **Advanced Information Retrieval Project**: Retrieval System for Semantic Scholar | [GitHub](#)
- **Advanced Programming Project**: Shopping Application | [GitHub](#)

COURSEWORK

Sharif University of Technology

- **Math**: Calculus I-II, Linear Algebra, Differential Equations, Probability and Statistics, Numerical Computation
- **Computer Science**: Advanced Programming, Discrete Structures, Data Structures and Algorithms, Design of Algorithms, Game Theory, Computer Simulation, Signals and Systems, Advanced Information Retrieval, Machine Learning (Graduate), Social and Economic Networks (Graduate), Theory of Languages and Automata
- **Economics**: Microeconomics, Macroeconomics, Econometrics, Intro to IO, Public Economics, Neuroeconomics
- **Finance**: Financial Economics, Financial Machine Learning (Graduate), Financial Engineering (Graduate)

London School of Economics and Political Science (LSE)

- **Finance**: Analysis and Management of Financial Risk (FM202), Advanced Corporate Finance (FM350)

Coursera (Online Courses) | [Profile](#)

- Game Theory (Stanford University) | [Certificate](#)
- Game Theory II: Advanced Applications (Stanford University) | [Certificate](#)
- Narrative Economics (Yale University) | [Certificate](#)
- Financial Markets (Yale University) | [Certificate](#)
- The Global Financial Crisis (Yale University) | [Certificate](#)
- Financial Engineering and Risk Management (1 of 5 courses) (Columbia University) | [Certificate](#)
- Machine Learning and RL in Finance (2 of 4 courses) (New York University) | [Certificate](#)
- Decentralized Finance (DeFi) (4 of 4 courses), (Duke University) | [Certificate](#)
- Behavioral Finance (Duke University) | [Certificate](#)

SKILLS

Programming: Python, Julia, R, C/C++, Java, STATA

Packages: Pandas, NumPy, Scikit-learn, Statsmodels, TensorFlow, PyTorch, GeoPandas, Google Cloud API

Technologies: Git, $\text{\LaTeX}$, Slurm, SQL, Redivis

Languages: Persian (Native), English (Fluent)