

# MOHAMMAD MEHDI PAKRAVAN

Sharif University of Technology, Tehran, Iran

pakravanmohammad.eco@gmail.com (+98) 930-278-2752 GitHub

## EDUCATION

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**Sharif University of Technology**, Tehran, Iran

Sep 2022 – Mar 2025

M.Sc. in Economics

Thesis: "The Effect of Board of Directors Network on Firms' Financial Performance"

Advisor: Dr. Farshad Fatemi Ardestani

Relevant Coursework: Microeconomic Theory I, Econometrics I, Applied Econometrics, Industrial Organization, Macroeconomic Theory I, Corporate Finance I-II, Environmental Economics

**Isfahan University of Technology**, Isfahan, Iran

Oct 2017 – Sep 2021

B.S. in Electrical Engineering (Control Systems)

Relevant Coursework: Calculus I-II, Linear Algebra, Probability & Statistics, Regression Analysis, Partial Differential Equations, Engineering Mathematics

## RESEARCH INTERESTS

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Industrial Organization, Network Economics, Applied Microeconomics ,Corporate Finance, Financial Economics

## RESEARCH EXPERIENCE

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**Master's Thesis: The Effect of Board of Directors Network on Firms' Financial Performance** Sep 2024 – Mar 2025

*Supervisor: Dr. Farshad Fatemi Ardestani, Sharif University of Technology*

- Constructed comprehensive director-firm bipartite network dataset for Tehran Stock Exchange covering 500+ publicly traded firms across 2016-2024 (4,000+ firm-year observations)
- Collected and cleaned board composition data through web scraping and manual verification
- Analyzing impact of board network centrality measures (degree, closeness, betweenness, eigenvector) on firm performance metrics (Tobin's Q, ROA and ROS) using dynamic panel methods
- Preliminary results suggest positive correlation between director centrality and firm valuation, with heterogeneous effects across firm ownership concentration

**Research Assistant, Labor Market Analysis Project**

Aug 2023 – Nov 2023

*Research Center of Islamic Legislative Assembly, Tehran, Iran*

- Conducted empirical analysis of Iranian labor market data to inform minimum wage policy recommendations for national legislative body
- Analyzed household expenditure surveys and employment statistics using panel data methods to estimate poverty thresholds and cost-of-living adjustments

## TEACHING EXPERIENCE

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**Teaching Assistant**, Introductory Econometrics (Undergraduate)

Spring 2025

*Sharif University of Technology, Department of Economics*

- Design problem sets and coding assignments with detailed rubrics; hold weekly office hours
- Grade exams and provide individualized feedback on empirical research projects

## PRESENTATIONS & CONFERENCES

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Development Economics Summer School, Sharif University of Technology

Dec 2022

- Two-week intensive program covering recent advances in development economics research methods

## HONORS & AWARDS

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### Graduate Studies

- Merit-Based Full Tuition Scholarship, Sharif University of Technology Sep 2022–Mar 2025
- Ranked 22<sup>nd</sup> out of 5,000 (Top 0.4%), Iranian National Graduate Entrance Exam May – 2022

### Undergraduate Studies

- Merit-Based Tuition Scholarship, Isfahan University of Technology Sep 2017– Mar 2022
- Top 2%, Iranian National University Entrance Exam (Konkur), Mathematics & Physics Track Jun 2017

## TECHNICAL SKILLS

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<b>Statistical Software</b>	Stata (advanced), R (advanced), EViews, Microsoft Excel (advanced)
<b>Programming Languages</b>	Python, Julia, MATLAB
<b>Data Management</b>	SQL (MySQL), Web Scraping (Selenium, Playwright)
<b>Tools</b>	Git, L <sup>A</sup> T <sub>E</sub> X, Linux/Unix shell

## SERVICE & OUTREACH

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**Workshop Instructor**, Game Theory for High School Students

2024 – Present

*Isfahan Mathematics House, Isfahan, Iran*

- Design and teach 10-week introduction to game theory and strategic decision-making
- Develop interactive exercises demonstrating applications in economics and social sciences

## ADDITIONAL TRAINING

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**Online Coursework** (Machine Learning Specialization, Coursera)

- Neural Networks and Deep Learning (Andrew Ng) May 2020
- Improving Deep Neural Networks: Hyperparameter Tuning and Regularization (Andrew Ng) June 2020
- Structuring Machine Learning Projects (Andrew Ng) Oct 2020
- Applied Machine Learning in Python (Kevyn Collins-Thompson) Dec 2019

## LANGUAGES

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Persian (Native), English (Fluent)

## REFERENCES

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**Dr. Farshad Fatemi Ardestani**  
Associate Professor of Economics  
Sharif University of Technology  
ffatemi@sharif.edu

**Dr. Maryam Zekri**  
Associate Professor of Control Engineering  
Isfahan University of Technology  
mzekri@iut.ac.ir