Alireza Marahel

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● 100 S. Woodlawn Ave, Bloomington, IN, 47405

Education

- Indiana University, Bloomington, IN

2018-2024(Expected)

Ph.D. in Economics

 Sharif University of Technology, Tehran, Iran Bachelor of Science in Mechanical Engineering Minor in Economics 2013-2018

Skills

- Computing: Fluent in Python, Matlab, R, Stata, Unix shell script; Beginer in HTML, SQL and C.
- Others: IATEX, MS Office (Fluent in Excel), SolidWorks, COMSOL Multiphysics, AutoCAD.

Research

Indiana University

Fields: Econometrics, Asset Pricing, Machine Learning (secondary and in progress)

- "Panel Regression with Endogenous Regime Switching", with Yoosoon Chang and Joon Y. Park (Working Paper)
 - A new approach to model panel regressions with endogenous regime switching using an autoregressive latent factor (applicable to any multifactor asset pricing model).
- "Revenue Mobilization for a Resilient and Inclusive Recovery in the Middle East and Central Asia", in collaboration with the Fiscal Policy Group, Middle East and Central Asia Department, IMF
 - Assessing the tax capacity, finding its key determinants and estimating the tax revenue gaps/inefficiency in MCD countries using a Stochastic Tax Frontier model for panel data with time-variant inefficiency.
- "How Tariffs Can Reshape the International Trade Flow: Evidence from Colombia"
 - Industry-level gravity estimation (using the fixed effect ordinary least squares and the PPML estimators), estimation of gains of trade for the multi-industry trade model, welfare gains of the break-down of FTAs using the Hat-Algebra approach
- "Transmission of Macroeconomic Shocks Through Trade Agreements Using an Endogenous Regime Switching Approach"
- "How Beliefs Affect the Portfolio Decisions: An Experimental Approach"
- Familiar with Machine Learning Techniques

Sharif University of Technology

- Undergraduate thesis: "Micro-Dissected Tumor Slice on a Chip"
 - Modeled a newly designed micro-channel which simulates an actual human body in terms of food and oxygen supply to the cancer tissue for drug responses.
 - A diff-in-diff estimation of the effects of different drugs on the cancer tissue
- Feasibility Study of Increasing the Capacity of Khuzestan Steel Company (Zamzam 3 Construction Project)
- Analysing The Effects of International Sanctions on the Availability of Pharmaceutical Drugs and How It May Affect the Cancer Treatment (Data Collection)
- "Analysis of the probable effects of Iran's entry into the WTO Agreement"
- Familiar with Plastic Model Injection

Teaching Experience

Indiana University

Undergraduate Courses

• Statistical Analysis for Business and Economics (instructor)

Aug 2019 - Dec 2022 (7 Semesters)

Sharif University of Technology

Undergraduate Courses

• Intro to Macroeconomics (TA)

SP2017

• Intro to Microeconomics (TA)

FA2017

• Statistical Analysis for Business and Economics (TA)

SU2020, SP2023

Internships and Work Experience

•	International	N.	lonetary 1	Fund	(IMF))
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Jun 2021 - Sep 2021

• Saipa Motor Corporation

Jun 2017 - Sep 2017

• Khuzestan Steel Company

Jun 2016 - Sep 2016

• Top-sonic Co.

Jan 2014 - Feb 2014

Honors and Awards

_	Doctoral	Assistantship.	. Department	of Econor	mics.	Indiana	University

2019 - 2023

- College Graduate Fellowship recipient, Indiana University

2018 - 2019

- Top-Up Fellowship recipient, Indiana University

2018 - 2019

- Member and Fellowship recipient, Iran's National Elite Foundation

2013 - 2015

- Ranked Top 0.1% in the National Universities Entrance Exam for Bachelor degree in Engineering and Technological Fields (147th among approximately 250k applicants)