

Pouya Arab

pouyaa@andrew.cmu.edu

pouyaarab.github.io

Education

Carnegie Mellon University <i>Doctor of Philosophy in Economics and Public Policy</i>	Aug 2024 – Present Pittsburgh, PA
Sharif University of Technology <i>Master of Science in Economics</i>	Sep 2020 – Sep 2023 Tehran, Iran
• GPA: 3.91/4	
Sharif University of Technology <i>B.Sc. in Mechanical Engineering, Minor in Economics</i>	Sep 2015 – Sep 2020 Tehran, Iran
• GPA: 4/4 (17.68/20)	
• GPA: 3.77/4 (17.40/20)	

Interests & Skills

Research Interests: Environmental Economics, Urban Economics, Experimental Economics

Software: Stata, R, Python, MATLAB, ArcGIS, L^AT_EX

Languages: English (Fluent), Persian (Native)

Working Papers

Climate Change and Mortality: Evidence from Iran (with M. Vesal).

Working Paper. Available [here](#).

Research Experience

PhD 1st Paper: Burning Signals: Wildfire Hazard Maps and Housing Market Reactions Present
Supervisors: Karen Clay, Akshaya Jha, Nicholas Muller, Edson Severnini

- Illustrating the capitalization of wildfire risk into housing prices using a vertical sorting model.
- Utilizing staggered Difference-in-Differences to identify negative price effects driven by information shock in high-risk zones.
- Constructed a novel dataset of historical fire map designations by digitizing archival records from CAL FIRE.

Master Thesis: Climate Change and Mortality: Evidence from Iran Sep 2021 – July 2023

Supervisor: Mohammad Vesal

- Analyzed the causal effect of temperature on mortality across 42 demographic groups using a rich weekly dataset (2009–2017) and two-way fixed effects models.
- Identified a significant "harvesting effect," showing that while extreme heat ($>25^{\circ}\text{C}$) increases immediate mortality by 1.78%, the effect diminishes to 0.27% over longer horizons due to mortality displacement.

Research Assistant, Data Analysis Center of the GSME Aug 2022 – Dec 2023

Supervisors: Mohammad Vesal

- Collected, analyzed, and visualized climate data to provide reports on climate change trends in Iran.

Research Assistant: Digitization to Enhance Tax Compliance in Iran Nov 2020 – Sep 2021
Supervisor: Mohammad Vesal

- Conducted a comprehensive literature review on the role of digitization in improving tax compliance.

Work Experience

Project Analyst Feb 2018 – Jan 2020
Rahbord Danesh Pouya Institute (RDPI) *Tehran, Iran*

- Conducted economic and environmental impact assessments for national development planning, focusing on resource management.
- Facilitated Value Engineering workshops, including the assessment of the Casillian dam for drinking water supply.

Teaching Experience

Graduate: Environmental Economics, Energy Economics, System Dynamics, Applied Econometrics
Undergraduate: Macroeconomics, Microeconomics, Principles of Economics, Statistics and Probability

Test Scores

TOEFL iBT: 99 (Reading: 27, Listening: 25, Speaking: 23, Writing: 24)
GRE: Verbal Reasoning: 145, Quantitative Reasoning: 167, Analytical Writing: 4.0

Leadership & Voluntary Experience

Sharif Economics Academic Association Aug 2021 – Aug 2023
Board Member

- Organized the international workshop "Climate Change Economics: Theory to Application", hosting lecturers from top global universities.
- Arranged several academic presentations and seminars for the department.

Sharif Mountaineering Club Counsel Oct 2019 – Sep 2021
President of the Board

Daad Student Publication Oct 2018 – Dec 2019
Editorial Board Member (Economics and Environment)

Awards & Honors

Ranked 43rd Among 5,000+ Participants 2020
Graduate National University Entrance Exam

Winner of The Extracurricular Activities Award 2019
Student Affairs Administration of the Mechanical Engineering Department at SUT

Full Scholarship for TeIAS Summer Schools 2018, 2019
Tehran Institute of Advanced Studies (TeIAS)