

# SHADI RAHIMFALLAH

Faculty of Economics, York University, Toronto, Canada

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## EDUCATION

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- Ph.D. in Economics**, York University, Toronto, Canada Sep 2022  
Dissertation: *Financial Frictions, Used Capital, and Misallocation*  
Supervisors: Prof. Tasso Adamopoulos and Prof. Chaoran Chen
- M.Sc. in Energy Economics**, University of Tehran, Tehran, Iran Feb 2019  
Thesis: *The Effect of Shale Gas Expansion on the Attractiveness of Iran's Petrochemical Industry*  
Supervisor: Prof. F. Jabal Ameli
- B.Sc. in Theoretical Economics**, Shahid Beheshti University, Tehran, Iran Jun 2016

## RESEARCH INTERESTS

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Macroeconomics; Financial Economics; Development Economics; Energy and Sustainability

## RESEARCH

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### Working Paper

- Financial Frictions, Used Capital, and Misallocation (Vietnam, 2005–2015)  
*Heterogeneous-firm GE model with collateral constraints and rental markets for new vs. used capital; Vietnamese panel data (2005–2015). Access to used capital helps constrained firms scale and raises aggregate TFP.*

### Publication

- Geoeconomics of Global Energy Transformation: Oil Prices, Polyethylene Costs, and Shale Gas in the United States Aug 2022  
Estimates pass-through from oil and shale-gas shocks to polyethylene costs using time-series methods.

### Research in Progress

- Cultural and ESG predictors of human development: a machine-learning perspective

### Additional Projects

- Macroeconomic Indexes and their Impacts on the Petrochemical Industry (University of Tehran)
- Shale-Gas Revolution and its Effects on Polyethylene Prices (University of Tehran)
- Gas Pricing Mechanisms (University of Tehran)
- Master's Thesis (Energy Economics): *The Effect of Shale Gas Expansion on the Attractiveness of Iran's Petrochemical Industry*

## RESEARCH ASSISTANTSHIPS

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- York University**, Toronto, Canada 2025 – Present
- Supervisor: T. Adamopoulos, C. Chen — Field: Macroeconomics (Data analysis and model support)
- York University**, Toronto, Canada 2023

- Supervisor: T. Adamopoulos — Field: Macroeconomics (Data analysis and model support)

**Electricity Markets Project**, Tehran, Iran 2021

- Supervisor: J. Lin — Field: Energy Economics (Econometric analysis of pricing and efficiency)

**University of Tehran**, Tehran, Iran 2018

- Supervisor: F. Jabal Ameli — Field: Energy Economics (Time-series analysis and data collection)

## TEACHING ASSISTANTSHIPS

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ECON1530 — **Introductory Mathematical Economics I** York University 2022

ECON1540 — **Introductory Mathematical Economics II** York University 2023

ECON2350 — **Intermediate Microeconomic Theory II** York University 2023

ECON2450 — **Intermediate Macroeconomic Theory II** York University 2024

ECON3249 — **Labour Economics (Writing)** York University 2023

ECON3569 — **Economic Policy in Developing Countries** York University 2024

ECON3810 — **Economics of Project Appraisal and Feasibility** York University 2024

## PROFESSIONAL EXPERIENCE

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**Conference Chair & Presenter**, Canadian Economics Association (CEA), Canada 2025

- Chaired the session *CMSG: Investment and Technical Change*.
- Presented research paper and coordinated session discussion.

**Research Analyst**, Partogen Beh Tashkhis, Tehran, Iran 2016 – 2021

- Managed and analyzed **large-scale big data** to study financial performance, efficiency, and resource allocation.
- Applied econometric and statistical methods to design and implement empirical studies in macroeconomic and financial contexts.
- Collaborated with cross-functional teams and communicated analytical results to both technical and non-technical audiences.

**Economic Researcher**, Batabkara Company, Tehran, Iran 2017

- Performed economic modeling and market analysis for investment and policy feasibility studies.
- Assessed pricing strategies and financial risks while tracking macroeconomic trends affecting projects.
- Provided data-driven inputs to inform strategic decisions in dynamic environments.

## SUMMER SCHOOLS AND WORKSHOPS

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**MacroFinance**, Princeton University (Online) 2025

**Computational Methods for Macroeconomics**, Econometric Society (Online) 2023

**Decision-Making under Risk**, University of Würzburg, Germany (Online) 2021

<b>2nd International Trade Summer School</b> , TelAS, Tehran, Iran	<i>2019</i>
<b>Renewable Energy</b> , Gamcenter, Tehran, Iran	<i>2018</i>
<b>Energy and Environmental Economics</b> , TelAS, Tehran, Iran	<i>2017</i>

## HONORS AND AWARDS

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<b>LA&amp;PS Dissertation Fieldwork Fellowship</b> , York University, Toronto, Canada	<i>2025</i>
<b>Full scholarship</b> , Econometric Society Workshop, Online, Canada	<i>2024</i>
<b>Full scholarship</b> , York University PhD, Toronto, Canada	<i>2022</i>
<b>Full scholarship</b> , University of Würzburg Summer School, Germany	<i>2021</i>
<b>Full scholarship</b> , 2nd International Trade Summer School, TelAS, Tehran, Iran	<i>2019</i>
<b>Full scholarship</b> , Energy and Environmental Economics Summer School, TelAS, Tehran, Iran	<i>2017</i>
Ranked top 0.3% in national entrance exam for M.Sc. Economics, Iran	<i>2016</i>
Ranked top 1% in national entrance exam for B.Sc. Economics, Iran	<i>2012</i>

## SKILLS

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**Programming:** Python, Julia, R, MATLAB

**Software:** Stata, EViews

**Finance:** Familiarity with CFA topics (taxes, long-term liabilities, portfolio analysis)