

SHADI RAHIMFALLAH

Faculty of Economics, York University, Toronto, Canada

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EDUCATION

Ph.D. in Economics, York University, Toronto, Canada Sep 2022 – Expected 2027

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

Macroeconomics; Financial Economics; Development Economics; Energy and Sustainability

RESEARCH

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

- Collateral constraints and rental-market depth
- Energy-price shocks and investment reallocation
- 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

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

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

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

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

Health Economics Researcher, Partogen Beh Tashkhis, Tehran, Iran 2016 – 2021

- Conducted applied research on cost-effectiveness, efficiency, and inequality using large health datasets.
- Implemented econometric studies and produced policy-relevant analyses and reports.
- Collaborated with multidisciplinary teams and communicated findings to technical and policy 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

MacroFinance, Princeton University (Online) 2025

Computational Methods for Macroeconomics, Econometric Society (Online) 2023

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

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

HONORS AND AWARDS

LA&PS Dissertation Fieldwork Fellowship , York University, Toronto, Canada	<i>2025</i>
Full scholarship , Econometric Society Workshop, Online, Canada	<i>2024</i>
Full scholarship , York University PhD, Toronto, Canada	<i>2022</i>
Full scholarship , University of Würzburg Summer School, Germany	<i>2021</i>
Full scholarship , 2nd International Trade Summer School, TelAS, Tehran, Iran	<i>2019</i>
Full scholarship , 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

Programming: Python, Julia, R, MATLAB

Software: Stata, EViews

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