



Farzaneh Davarzani Ph.D.

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As a Senior Analyst at the University of Toronto, I specialize in analyzing health data to improve public health systems. My work informs policy decisions, aiming the efficiency of healthcare services.

Skills

Expertise: Macroeconomics, econometrics, health policy, public health systems, statistics, Canada
Technical skills: Panel data analysis (administrative data, survey data, census data), qualitative and quantitative analysis, advanced decomposition methods, Causal reference methods
Programming: Stata, Matlab, Python, ArcGIS, Excel, and Eviews (advanced), R, Github, Power BI (intermediary), SAS-SQL (beginner)
Language: English, French

Professional Experience

A. Research and consulting:

- Aug 2022 - **Senior Economist, University of Toronto, Canada**
- Present Postdoctoral Researcher at Institute of Health Policy, Management and Evaluation (IHPME), joint program with School of Public Policy and Administration at Carleton University
 - Created a retrospective longitudinal database (43 years) of public health spending data in Canada
 - Conducted time series analyses on public health spending and mortality
 - Analyze National Health Expenditure data to explore health expenditure trends and patterns
 - Analyze and interpret economic and health indicators to assist policymakers
- April 2021 - **Data Analyst, Census Data, Statistics Canada, Ottawa, Canada**
- Sep 2021
 - Analyze NOC labor data, apply statistics, validate data, and manage databases
 - Conduct data validation and quality assurance procedures to maintain data integrity
- Jun 2012 - **Business Analyst, Sharif University of Technology, Tehran, Iran**
- Aug 2015
 - Identify opportunities to strengthen risk management strategies and products
 - Offer input on new program policies to enhance risk management

B. Teaching:

- Sep 2020 - **Course Instructor (2 appointments), in Macroeconomics Policy, University of Ottawa,**
- Apr 2021 Courses taught ECO3152, ECO6120
 - Cover panel data analysis, data management, and essential quantitative techniques
 - Instruct students on using STATA, MATLAB, and Eviews software for data analysis
- Jan 2019 - **Advanced Income Tax Instructor, H&R Block, Ottawa, Canada**
- Apr 2021
 - Instruct courses for individuals pursuing license as income tax advisors
 - Examine tax returns and financial records for clients across Canada
- Sep 2015 - **Teaching Assistant (10 appointments), Department of Economics, University of Ottawa**
- Apr 2022
 - Macroeconomics, Econometrics, Engineering economics, and Mathematics

Education

- Sep 2015 - **Ph.D. in Economics, University of Ottawa, Ottawa, Canada**
- April 2022 Dissertation: Empirical Essays in Natural Resources, Commodity Prices, and Applied Macroeconomics
- Sep 2009 - **MBA in Finance, Shahrood University of Technology, Shahrood, Iran**
- Jul 2012 First Class Honours, Specializations: Economics and Finance
- Sep 2005 - **B.A. in Industrial Management, Shahrood University of Technology, Shahrood, Iran**
- Jul 2009 First Class Honours, Specializations: Business and Finance

Funding & awards (select)

- 2015-2021 Full International Doctoral Admission Scholarship
- Winter 2021 Doctoral Award, Faculty of Social Sciences Student Assistance Fund
- Fall 2020 PhD Internship award, Mitacs Globalink Research Award
- Winter 2022 Association of Professors of the University of Ottawa
- Fall 2021 Academic and Professional Development Fund, University of Ottawa
- June 2021 Quebec Interuniversity Centre for Social Statistics (QICSS) award, University of Montreal

Research Contributions

Preventive Care Spending and Mortality, *Submitted*

with Mehdi Ammi

- *Preventive Care Spending and Mortality*

Studies the relationship between preventive care spending and mortality across 37 OECD countries from 1970 to 2019, finding a modest long-run preventive care spending elasticity of -0.10. Higher preventive spending correlates with decreased infant mortality and fewer daily smokers.

Public Health Expenditure, *Working Paper*

with Mehdi Ammi and Sara Allin

- *Analysis of Public Health Expenditure in Canada*

Utilizes qualitative analysis and focus group discussions to categorize public health expenditures in Canada, examining spending across different jurisdictions and international contexts.

Commodity Prices and Inflation, *Submitted*

- *Global Commodity Price Shocks and Domestic Inflation*

Investigates the impact of global commodity price shocks on domestic inflation using data from 67 countries (1970-2014), highlighting significant influences on inflation fluctuations.

Income Inequality and Domestic Investment, *Working Paper*

- *Income Inequality and Investment in Resource-Rich Countries*

Explores the relationship between income inequality, natural-resource rents, and domestic investment in resource-rich countries, finding that higher income inequality leads to a smaller proportion of natural-resource rents allocated to domestic investment.

Commodity Price Shocks and Output Gap

- *Impact of Commodity Price Shocks on the Output Gap*

Investigates the significance of commodity price shocks in estimating the output gap, emphasizing their substantial role in influencing the output trend, especially in advanced and emerging economies.

Conference Presentations

- Annual CAHSPR Conference, May 2024, Ottawa, Ontario.
- Presenter at the 21st Annual CHESG Meeting, May 2023, Winnipeg, Manitoba.
- Presenter at Canadian Economics Association Conference, June 2023, Winnipeg, Manitoba.
- Presenter at 93rd International Atlantic Economic European Conference, April 2022, Atlanta, US.
- Presenter at Canadian Economics Association Conference, June 2021, SFU, Canada.
- Presenter at 91st International Atlantic Economic European Conference, May 2021, Atlanta, US.
- Presenter at Marleau lecture series on monetary and fiscal policy, September 2020, Ottawa, Canada.
- Women Economics Interview Skills, August 2020, Ottawa, Canada.
- OCGSE Inaugural Conference, March 2017, University of Ottawa, Canada.
- 31st annual Canadian Macro Study Group (CMSG) meeting, November 2017, Carleton University, Canada.
- 35th Meeting of the Canadian Econometric Study Group (CESG), October 2018, OCGSE, Ottawa, Canada.

Leadership

- Treasurer Advisor for the Postdoc Union at Carleton University 2022-2024
- Income tax advisor at Pand Settlement tax clinic 2022-2023
- Health and Safety officer, Occupational Health and Safety at the University of Ottawa 2020-2022
- Vice President - Public Affairs, Economics Graduate Students Association, University of Ottawa 2016-2019
- Organizing and Volunteering: Canadian Econometric Study Group (CESG), Ottawa, Canada 2018