


MARYAM FATEMI

PhD Candidate in Economics

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Skills

- Stata, Python, R, Matlab, LaTeX, Excel, Microsoft Office
- Machine Learning, Causal Inference, Hypothesis Testing, A/B Testing, Difference-in-Differences, Matching, Data Analysis, Outcomes Research, Instrumental Variables, Synthetic Control, Regression Discontinuity

Education

The Graduate Center, City University of New York

PhD in Economics

Aug. 2021 – Present

New York, NY

Illinois State University

Master's in Quantitative Economics

Aug. 2019 – May 2021

Normal, IL

University of Tehran

Bachelor's in Economics

Sep. 2011 – Jun 2015

Tehran, Iran

Experience

VNS Health's Center for Home Care Policy & Research

Jul. 2024 – Present

Research Associate

- Perform advanced statistical analyses on large-scale CMS claims data to evaluate interventions for sepsis survivors.
- Collaborate with interdisciplinary teams (economists, doctors, nurses) to produce data-driven briefs and evaluation reports for organizational partners.
- Communicate complex results to both technical and non-technical audiences.

City University of New York (CUNY)

Aug. 2021 – Present

Research Assistant

- Conduct literature reviews to support ongoing research initiatives.
- Assist in managing large datasets, ensuring data integrity and reproducibility of findings.
- Co-authored a research study on New York City's evolving jobs recovery, the results of which are available in a blog post: [New York City's Evolving Jobs Recovery \(https://esg.gc.cuny.edu/2022/09/12/new-york-citys-evolving-jobs-recovery/\)](https://esg.gc.cuny.edu/2022/09/12/new-york-citys-evolving-jobs-recovery/).

City University of New York (CUNY)

Aug. 2023 – May 2025

Adjunct Lecturer

- Develop and deliver lectures on health economics, focusing on the structure, dynamics, and challenges of the US healthcare system.
- Facilitate case study discussions on access to care, CMS/CMMI value-based programs, and quality improvement initiatives.

Ongoing Research Projects

Evaluating the Effects of Early Follow-Up on the Outcomes of Sepsis Survivors Discharged to Home Health Care Agencies

- Analyzing CMS claims to assess the impact of timely home health agency (HHA) visits and outpatient care on readmission rates and healthcare costs among sepsis survivors.

Assessing the Impact of Budget Capping on Health Outcomes: Case Study of Maryland All Payer Model (MDAPM) and Maryland Total Cost of Care (MDTCOC)

- Apply difference-in-differences and synthetic control methods on BRFSS data to evaluate the effects of hospital budget caps on health and behavioral health outcomes.

Licenses & Certifications

Neural Networks and Deep Learning from Deep Learning (Coursera, 2025)

Biostatistics in Public Health Specialization from Johns Hopkins University (Coursera, 2025)

Machine Learning with Python from IBM (Coursera, 2023)