





# Mahyar (Mayer) Habibi

Economist, Data Scientist

 mahyarhabibi.github.io

 mahyar.habibi@phd.unibocconi.it

 in/mahyar-habibi-519290b6/

 github.com/mahyarhabibi

## ABOUT ME

I am a PhD student in Economics. My primary areas of interest are Economics of Artificial Intelligence, Social Media, Technology, and Innovation. My research involves applying Machine Learning, Causal Inference, and NLP techniques in economics and quantitative social science settings.

## SKILLS

**Languages:** Python (Expert), SQL (Experienced), Stata (Experienced), Julia (Familiar)

**Technologies:** Azure, PyTorch, Scikit-Learn, Spark

## EDUCATION

2023 - present	<b>Visiting PhD Student</b> Host: Prof Avi Goldfarb, Rotman Chair in AI and Healthcare	<b>Rotman School of Management, University of Toronto</b>
2020 - present	<b>PhD Student in Economics and Finance</b> Advisors: Prof. Carlo Schwarz, Prof. Francesco Decarolis, Prof. Andrea Fosfuri	<b>Bocconi University, Milan</b>
2017 - 2020	<b>MSc. in Economics</b> Area: Economics of Healthcare	<b>Sharif University of Technology, Tehran</b>
2013 - 2017	<b>BSc. in Mechanical Engineering</b> Minor in Economics	<b>Sharif University of Technology, Tehran</b>

## RESEARCH

Working Paper	<b>Open Sourcing GPTs</b> I develop a dynamic model of open sourcing decisions of AI software. I use data from the ecosystem of Large Language Models, AI-related patents and papers to find supporting evidence for the theoretical analysis. Additionally, I propose a novel text-based approach to measure firms' extent of product engagement with AI.
Working Paper	<b>Distinguishing Biases from Personal Preferences: An 'Honest' Machine Learning Approach</b> I propose a novel method to estimate micro-level biases that are separated from personal preferences. The proposed method comprises a two-stage solution. First, an 'honest' collaborative method is proposed to isolate biases and self-induced ratings from the latent spaces. The second stage involves Double ML estimation of unit-level biases.
Working Paper	<b>The Health Consequences of Subsidized Health Insurance: Evidence from Iran</b> (With Frashad Fatemi and Mohammad Vesal) We assess the impact of a large scale subsidized health insurance reform on healthcare utilization and mortality of various age-groups among the urban population in Iran.
Work in Progress	<b>Measuring the Plurality of Online Discourse</b> (With Dirk Hovy and Carlo Schwarz) We propose a new methodology to measure the plurality of online discourse. We formalize the concept of plurality and propose measures that use text embeddings for the analysis of content plurality.
Work in Progress	<b>Gender Gaps: A Hollywood Story</b> (With Zahra Khanalizadeh) We assess how the representation of female characters has changed in Hollywood movies in the past three decades.

## EXPERIENCE

2023 - Ongoing	<b>Research Assistant (MENTALISM Project)</b> Supervised by Carlo Schwarz and Dirk Hovy, MENTALISM is an interdisciplinary effort between Economics and Computational Linguistics to measure and track real-time perception of inequality using large-scale social media data. While it is an ongoing effort, I have had multiple responsibilities in MENTALISM, including but not limited to training text-based models for the demographic classification of social media users using Large Language Models.	<b>Bocconi</b>
2022 - 2023	<b>Teaching Assistant</b> Teaching Assistant for undergraduate Macroeconomics, Foundation of Economics for Computer Scientists, and graduate Macroeconometrics.	<b>Bocconi</b>
2020 - 2020	<b>Economics Consultant</b> As an Economics Consultant, I was responsible for developing statistical models for analyzing factors explaining early departures from the fund (survival analysis).	<b>Iran Social Insurance Fund</b>

## AWARDS & HONORS

---

2020 – present	<b>Bocconi University PhD Fellowship</b>
2013 – 2019	<b>Iran's National Elites Foundation Scholarship</b>
2019	<b>Graduate Academic Distinction Award, Sharif University, School of Management and Economics</b> Awarded to the top 3 students per cohort.
2017	<b>Direct Entry To Graduate Program Award, Sharif University</b> Awarded to the top 10% of students per cohort.
2013	<b>Ranked in the Top 0.1% of Students in the National University Entrance Exam</b> Ranked 136 <sup>th</sup> among more than 250,000 participants in the Math and Physics exam.

## CERTIFICATES

---

2022	<b>Applied AI with Deep Learning</b>	<b>IBM</b>
2022	<b>Advanced Machine Learning and Signal Processing</b>	<b>IBM</b>