Mani Bayani Curriculum Vitae

PERSONAL DETAILS

415 Lefferts Ave, Apt A16, Brooklyn, New York Address

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EDUCATION

Ph.D. Economics 2016-present

The Graduate Center of the City University of New York

Fields: Econometrics and Machine Learning, High-Dimensional Models, Policy Analysis

Dissertation: "Essays on Machine Learning Methods in Economics"

M.Sc. Applied Mathematics

2020-present

Columbia University in the City of New York

M.Sc. Analytics 2018-2021

Georgia Institute of Technology Computational Data Analytics Track

M.Sc. Computer Science 2018-2021

University of Illinois at Urbana-Champaign

Concentration: Machine Learning

M.A. Economics 2011-2014

University of Tehran, Iran

Thesis title: "The implementation of hidden Markov models for estimating CO2 emissions"

B.Sc. Computer Science 2006-2010

Sheikh Bahaei University, Iran

WORKING PAPERS

• Robust PCA Synthetic Control Model [Under Reiview] https://arxiv.org/abs/2108.12542

• The Contribution of the Minimum Wage to US Wage Inequality: A Penalized Spline Approach

https://mbayani.github.io/The-Contribution-of-the-Minimum-Wage-to-US-Wage-Inequality/https://mbayani.github.io/The-Contribution-of-the-Minimum-Wage-to-US-Wage-Inequality/https://mbayani.github.io/The-Contribution-of-the-Minimum-Wage-to-US-Wage-Inequality/https://doi.org/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.10

WORK IN PROGRESS

• Improving Time Series Extrinsic Regression

RESEARCH EXPERIENCE

Data Science Institute Scholar

2020-2021

Columbia University

Research on broadband funding with Professor Henning Schulzrinne

Data Science Fellow

2020-present

The Baruch College of the City University of New York

Analysis of Baruch students' academic performance with Professor Sonali Hazarika

Research Assistant

2020-present

City University of New York, The Graduate Center

Research on using artificial intelligence to analyze complex and highly dimensional economic models with Professor Lilia Maliar

TEACHING EXPERIENCE

Adjunct Instructor

2017-present

The Brooklyn College of the City University of New York Math for Economist (Econ 3410)

Adjunct Instructor

2018-present

The Gabelli School of Business, Fordham University

Statistical Decision Making (Econ 2142)

Statisitcs 1 (Econ 2140)

Teaching Assistant

2020-present

The Graduate Center of the City University of New York

Machine learning for economist (Graduate), for Professor Lilia Maliar

Teaching Assistant

2019-present

Georgia Institute of Technology

High-Dimensional Data Analytics (Graduate), for Professor Kamran Paynabar

Teaching Assistant

2017-2018

Columbia University

Statistics and Econometrics (Undergraduate), for Professor Homa Zarghamee

EXPERIENCE

A Collaborative Filtering Recommender System App

Fall 2021

https://github.com/mbayani/A-Collaborative-Filtering-Recommender-System-App

Search on Video

Spring 2020

https://github.com/mbayani/Search-on-video

Company Specific Disruptive News and Continuity Detector

Fall 2019

https://github.com/mbayani/Company-Specific-Disruptive-News-and-Continuity-Detector

Software Test Developer

Metaco Holding Isfahan,Iran

2009-2011

SCHOLARSHIPS AND AWARDS

Doctoral Student Research Grant

2020-2021

The Graduate Center of the City University of New York

The Advanced Research Collaborative Fellowship

The Graduate Center of the City University of New York

2018-2019

Graduate Center Fellowship

The Graduate Center of the City University of New York

2016-2020

Graduate Fellowship

Western Michigan University

2015-2016

SKILLS

Languages Persian (native)

English (fluent)

Software Proficient in Python, R, Matlab ,IATEX

Experience with Tableau, SQL

REFERENCES

Lilia Maliar, Professor of Economics, The Graduate Center, CUNY

Email: lmaliar@gc.cuny.edu

Wim Vijverberg, Professor of Economics, The Graduate Center, CUNY

Email: wvijverberg@gc.cuny.edu

Sonali Hazarika, Associate Professor of Economics, Baruch College, CUNY

Email: sonali.hazarika@baruch.cuny.edu