SAEED SHAKER

Contact

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The Ohio State University

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Columbus, OH 43210

Research Interest

Macro/Monetary Economics

Financial Economics

Machine Learning in Economics

Quantitative/Computational Economics

Economic Development

EDUCATION

The Ohio State University

Columbus, OH

Ph.D., Economics, 2021

East Carolina University

Greenville, NC

M.S., Econometrics and Quantitative Economics, 2015

Tarbiat Modares University

Tehran, Iran

M.S., Industrial Engineering, 2010

University of Tabriz

Tabriz, Iran

B.S., Mathematics, 2008

Research Papers

Job Market Paper

Financial Frictions and Productivity Losses: Importance of Default-Led Heterogeneity in Collateral and Loan Rates

(download)

Publication

A Comprehensive Evaluation of Value-at-Risk Models and a Comparison of Their Performance in (link to paper) Emerging Markets, (2018), with Mohsen Seyghali and Solmaz Poorabbas, Journal of Risk Model Validation

Working Papers

Impact of Entry Costs on Aggregate Productivity: Financial Development Matters

(download)

Entry Barriers in a Two-Sector economy with Perfect and Imperfect Financial Markets

(download)

Firm Entry and Exit in Continuous Time

(download)

Relative Importance of Employment and Investment Frictions and Their Interactions (draft available upon request)

Work in Progress

Size-Dependent Financing and Aggregate Productivity

Property Rights and Capital Misallocation

Fellowships, Awards and Honors

University Fellowship, Graduate School, Ohio State University

Spring 2021

Department of Economics Award in Teaching Excellence

2019

Journal of Money, Credit and Banking Fellowship

2015-2016

Tehran Stock Exchange Organization's Best Masters Thesis Award

2011

Work Experience

Data Science Intern

Big Data Federation

Data Scientist

San Jose, CA Sep 2021 - present

Upstart

Columbus, OH Jun 2021 - Sep 2021

SKILLS

Programming

Python, R, SQL, MATLAB, HTML, C, STATA, SAS

Economic Research

Time-Series Analysis (ARMA, GARCH), A/B Testing, Causal Analysis (RDD, Diff-in-Diff), DSGE Modeling, VAR, Solving DSGE Models in Continuous Time, Back-testing, Non-linear Systems Optimization, Optimal Control Theory

Data Analysis

Pandas, NumPy, SciPy, Scikit-Learn, Visualization (Matplotlib, Plotly, Altair), Data Engineering

Machine Learning

Neural Networks (CNN, RNN, LSTM), TensorFlow, XGBoost, Random Forest, K-means, SVM, Gradient Descent, Naive Bayes, PySpark, Unsupervised Learning (Clustering, PCA), NLP, Linear Discriminant Analysis

Technology/Industry Knowledge

AWS (S3, EC2, Redshift), Github, Financial Modeling, Forecasting, Risk Modeling, Investment Strategy, Portfolio Management, Financial Services, Credit Risk Analysis, Online Ad Auctions, Pricing, Fraud Detection, Anomaly Detection

Conference Presentations/Invitations

Midwest Economics Association, 84th Annual Meeting, Evanston, IL, USA	2020
Conference on Probability Theory and its Applications, Athens, Greece	2014
International Conference on Econometrics and Application, Sanandaj, Iran	2012

TEACHING EXPERIENCE

Independent Teaching

Elementary Econometrics (download syllabus)

Summer 2019, Summer 2020

Teaching Assistant and Recitation Leader

Intermediate Microeconomics	Fall 2016, Spring 2018
Intermediate Macroeconomics	Fall 2018
Health Economics	Fall 2019
Principles of Microeconomics	Spring 2017, Spring 2019, Fall 2020

OTHER PROFESSIONAL ACTIVITIES

Research fellow, AEA summer program at Michigan State University	Summer 2017
Reviewer for: American Journal of Applied Mathematics	2020
Financial Economist, Egtesad Modaber Kish, Tehran, Iran	2011-2014

PRE-PH.D. RESEARCH PAPERS

Measuring Exchange Rate Fluctuations Risk Using the Value-at-Risk, with Parastoo Mohammadi, Journal of Applied Finance & Banking, 2012

Exponentially Declining Weighted Bootstrapping as an Alternative Value-at-Risk Measurement Technique, with GholamReza Keshavarz Haddad, Working paper, Sharif University of Technology, 2017

Professor Aubhik Khan

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Professor Kyle Dempsey

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Professor Julia Thomas

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