ARA PATVAKANIAN

RÉSUMÉ

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RESEARCH EXPERIENCE

UPenn Dept. of Economics | Independent Research Philadelphia, PA | Oct. 2022 – Jan. 2023

Predicting Change in Macro-Financial Indicators Using Federal Reserve Statements

Coauthors: Akhilesh Tumu and Patrick Zhang

- Working paper that applies machine learning techniques to evaluate Fed statements & their impact on various macro-financial indicators
- Found that Fed statements since 2008 can be empirically categorized through LDA as primarily focusing on either price stability or full employment
- Used LDA, hawkish-dovish sentiment scores, and controls for the U.S. macroeconomy as regressors in random forests and elastic nets to predict changes in market-based inflation expectations and exchange-traded funds (ETFs)

UPenn Dept. of Economics | RA Remote | May – August 2022

- Research assistant under Prof. Dirk Krueger
- Created graphs in MATLAB of cross-country inequality (Gini & Lorenz curves)
- Obtained and wrangled data from Penn World Tables to visualize real GDP in PPP and world income distributions
- Contributions included in Professors Krueger and Fernández-Villaverde's upcoming textbook entitled Advanced Macroeconomics: A Dynamic Approach

UPenn Dept. of Political Science | RA Remote | May – July 2021

- Research assistant under Karen Nershi, PhD candidate
- Data collection and event study analysis on 200+ banks' and financial institutions' stock prices from 2000–2001
- Found that New York Times articles, Financial Times articles, and DoJ press releases about charges filed or conviction rulings against banks and other financial institutions do not significantly affect share performance in medium- to long-run

EDUCATION

University of Pennsylvania

2020 - Present

B.A., Majors in Mathematical Economics & Political Science; Concentration in Political Theory; Minors in Statistics, Philosophy, & International Development

Graduation: Spring 2024 | Philadelphia, PA, USA Dean's List 2021–2022 & 2022–2023

Crescenta Valley High School

2016-2020

Graduation: June 2020 | La Crescenta, CA, USA GPA: 4.0/4.0 (Unweighted); 4.51/4.0 (Weighted) Summa Cum Laude

SKILLS

Technical & Programming

R (Machine Learning); Python; MATLAB; LaTeX; Git; ArcGIS; Overleaf; Microsoft Office; Google Workspace

Languages

Armenian (Native); English (Native); Spanish (Fluent); French (Reading: Competent; Writing: Elementary)

RELEVANT COURSEWORK

ECON | Microeconomic Theory (Graduate Level)
Game Theory (Graduate Level)
Econometric Machine Learning
Advanced Econometrics
Intermediate Macroeconomics
MATH | Real Analysis I & II
Linear Algebra | Calculus I–IV
PSCI | International Political Economy

ACTIVITIES & DISTINCTIONS

Economics Dept. Undergrad. Advisory Board (Chairman)
Penn Undergraduate Economics Society (Co-President)
Penn Armenian Students Association (Co-President)
College of Arts & Sciences Major Advisor & Peer Advisor
Resident Advisor (Harrison College House)
Pi Sigma Alpha (2022 Inductee)