Sophia Kazinnik

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Email | Web | LinkedIn
US Citizen

Work Experience

Adv. Quantitative Analyst | Federal Reserve Bank of Richmond April 2023 – Present

- Led projects involving natural language processing (NLP) to develop supervisory models

Sr. Quantitative Analyst | Federal Reserve Bank of Richmond June 2019 – March 2023

- Oversaw quantitative model reviewing for stress-testing of operational risk
- Developed supervisory models utilizing machine learning and NLP techniques
- Co-developed a framework for cyber risk definition and classification for financial risk management

Quantitative Fellow | Federal Reserve System June 2017 – June 2019

- Served as a quantitative analyst and risk modeler in Federal Reserve System's cross-district rotation fellowship program

Graduate Instructor | University of Houston Sep. 2013 – May 2017

- Taught Principles of Macroeconomics, Microeconomics, and Intermediate Macro to class sizes of 15 to 95 students

Education

University of Houston | Houston, TX May 2017
Ph.D. in Economics

Tel Aviv University | Tel Aviv, Israel May 2009
B.A. in Economics

Research Interests

- Unstructured Data, Natural Language Processing, Central Bank Communication
- Supervision and Regulation, Operational Risk, Cyber Risk

Publications

Let's Face It: Quantifying the Impact of Nonverbal Communication in FOMC Press Conferences

- With Filippo Curti; *Journal of Monetary Economics, Forthcoming,* 2023

User Experience, Visual Aesthetics, and Content of Central Bank Websites

- With Filippo Curti; *Journal of Economic Behavior and Organization, Forthcoming,* 2023

Cyber Risk Definition and Classification for Financial Risk Management

- With Filippo Curti, Jeffrey Gerlach, Michael Lee, Atanas Mihov; *Journal of Operational Risk, Forthcoming,* 2023

Text Mining Methodologies with R: An Application to Central Bank Texts

- With Jonathan Benchimol and Yossi Saadon; *Machine Learning with Applications, Volume 8,* 2022

Monetary Policy Rules in Practice: The Case of Israel

- With David Papell; *International Review of Economics and Finance, Volume 76,* 2021

Working Papers

Can ChatGPT Decipher Fedspeak?
- With Anne Hansen; *link*

News and Networks: Using Text Analytics to Assess Bank Networks During COVID-19 Crisis
- With Daniela Scida, Cooper Killen, and John Wu; *link*

Federal Reserve Communication and the COVID-19 Pandemic
- With Jonathan Benchimol and Yossi Saadon; *Covid Economics (Issue 79)*, 2021

Cyber Risk in the Financial Sector
- With Filippo Curti, Jeff Gerlach, and Nika Lazaryan

Text-Based Measures of Central Bank Transparency
- With Jonathan Benchimol and Yossi Saadon; *link*

Work in Progress

Animal Spirits in Regulation: Evidence from Banking
- With David Aldama-Navarrette, Filippo Curti, and Anne Hansen

Local Large Language Models
- With Anne Hansen, Thomas Cook, and Peter McAdam

Conferences, Presentations, and Invited Talks

Talks: The 4th Women in Quantitative Finance Conference 2021; ABA Risk Conference 2021; Risk.Net 2020; ABA Risk Conference 2019; ORX 2019; FRS Quantitative Skills Conference 2021, 2020, 2019, 2018; FRB Richmond Cyber Risk Conference 2019 (co-organizer and panelist)

Select Conferences and Seminars (⋆ denotes co-author presentation):
Central Bank Research Association Annual Meeting (CEBRA) 2021, 2023 ⋆
Columbia University 7th Annual News and Finance Conference
Paris December 2022 Finance Meeting
System Conference on Financial Institutions, Regulations, and Markets 2022 (FRB Kansas City)
System Econometrics Meeting 2022 (FRB Dallas) ⋆
RiskLab/BoF/ESRB Conference on Systemic Risk Analytics 2022
York University Finance Seminar 2022
FMA Annual Meeting 2021
Columbia University Econometrics Seminar 2021
University of Reading Economics Seminar 2021
52nd Annual Conference of the Money, Macro and Finance Society 2021 ⋆
The 11th RCEA Money, Macro & Finance Conference 2021 ⋆
NBER Summer Institute (Monetary Economics) 2021 ⋆
WEAI Annual Conference (2019, 2021, 2022)
NBU/NPB Annual Research Conference 2021
AEA/ASSA Annual Meeting (2020, 2021, 2022) ⋆

Professional Service

Ad-Hoc Referee:
American Economic Review; Journal of Finance; Economic Inquiry; Latin American Journal of Central Banking

Technical Skills

Coding: R, Python, Stata, Matlab, SQL/SAS
Other: Natural Language Processing, Non-Traditional Data, Time-Series Econometrics, Financial Risk Modeling

Languages

English, Hebrew, Ukrainian, Russian (all fluent)