

Sophia Kazinnik

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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

- Financial Stability, Supervision and Regulation, Cyber Risk
- NLP, Unstructured Data, Central Bank Communication

EXPERIENCE

- Sr. Quantitative Analyst | Federal Reserve Bank of Richmond** June 2019 – Present
- Led a review of quantitative models for financial stress testing exercises (CCAR) as a quant lead on the Operational Risk horizontal evaluation team (HET)
 - Led a development and implementation of Natural Language Processing (NLP) based tools for various supervisory purposes based on large sets of text data
 - Developed a cyber risk definition and classification framework for financial risk management
- Quantitative Fellow | Federal Reserve System** June 2017 – June 2019
- Worked with teams across the Federal Reserve System (FRB New York, FRB Boston, and the Board) on a variety of internal risk modeling projects
 - Created and automated an NLP-based reporting tool
- Graduate Instructor | University of Houston** Sep. 2013 – May 2017
- Taught undergraduate courses in Economics

PUBLICATIONS

- 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

- Let's Face It: Quantifying the Impact of Nonverbal Communication in FOMC Press Conferences**
- With Filippo Curti; *SSRN link*
- News and Networks: Using Text Analytics to Assess Bank Networks During COVID-19 Crisis**
- With Daniela Scida, Cooper Killen, and John Wu; *SSRN link*
- Federal Reserve Communication and the COVID-19 Pandemic**
- With Jonathan Benchimol and Yossi Saadon; *Covid Economics (Issue 79)*, 2021
- Text-Based Measures of Central Bank Transparency**
- With Jonathan Benchimol and Yossi Saadon; *link*
- User Experience, Visual Aesthetics, and Content of Central Bank Websites**
- With Filippo Curti

WORK IN PROGRESS

Animal Spirits in Regulation: Evidence from Banking

- With David Aldama-Navarrette, Filippo Curti, and Anne Hansen

You Got Hacked: What Can We Learn From 100,000 Cyber Attacks?

- With Matteo Crosignani, Filippo Curti, Marco Macchiavelli, and Andre Silva

Cyber Risk in the Financial Sector

- With Filippo Curti, Jeff Gerlach, and Nika Lazaryan

CONFERENCES, PRESENTATIONS, AND INVITED TALKS

Talks: FRS Quantitative Skills Conference 2021; 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 2020, 2019, 2018; FRB Richmond Cyber Risk Conference 2019 (co-organizer and panelist)

Select Conferences and Seminars (★ denotes co-author presentation):

System Conference on Financial Institutions, Regulations, and Markets (scheduled)

System Econometrics Meeting 2022 (scheduled) ★

WFC 2022

WEAI 97th Annual Conference 2022

RiskLab/BoF/ESRB Conference on Systemic Risk Analytics 2022

York University Finance Seminar 2022

SFA Annual Meeting 2021 ★

FMA Annual Meeting 2021

Columbia University Econometrics Seminar

University of Reading Economics Seminar

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 ★

11th Portuguese Finance Network Conference 2021 ★

Central Bank Research Association Annual Meeting (CEBRA) 2021 ★

WEAI 96th Annual Conference 2021

NBU/NPB Annual Research Conference 2021

AEA/ASSA 2021 Annual Meeting ★

AEA/ASSA 2020 Annual Meeting ★

PROFESSIONAL SERVICE

Ad-Hoc Referee:

Economic Inquiry

American Economic Review

Journal of Finance

Latin American Journal of Central Banking

TECHNICAL SKILLS

Coding: R, Python, Stata, Matlab, SQL/SAS

Other: NLP (e.g., BERT, topic modeling, sentiment analysis), Unstructured Data (video/audio/text),

ML (PyTorch/Keras), Time Series Econometrics, Financial Risk Modeling

LANGUAGES

Languages: English, Hebrew, Ukrainian, Russian