Sophia Kazinnik

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Current Employment

- **Stanford University** (Digital Economy Lab @ HAI) | *Research Scientist* | June 2024 – Present

Prior Work Experience

- **Federal Reserve Bank of Richmond** | *Financial Economist & Quant* | June 2017 – June 2024

Education

- **University of Houston** | Ph.D. in Economics | May 2017
- **Tel Aviv University** | B.A. in Economics | June 2009

Research Interests

- Applied Artificial Intelligence, Behavioral Finance, Digital Economy, Alternative Data, Communication

Publications

- **Let's Face It: Quantifying the Impact of Nonverbal Communication in FOMC Press Conferences**
  Journal of Monetary Economics, Volume 139, October 2023 (with Filippo Curti)
- **User Experience, Visual Aesthetics, and Content of Central Bank Websites**
  Journal of Economic Behavior and Organization, Volume 212, August 2023 (with Filippo Curti)
- **Cyber Risk Definition and Classification for Financial Risk Management**
  Journal of Operational Risk, 2023 (with Filippo Curti, Jeffrey Gerlach, Michael Lee, Atanas Mihov)
- **Text Mining Methodologies with R: An Application to Central Bank Texts**
  Machine Learning with Applications, Volume 8, 2022 (with Jonathan Benchimol and Yossi Saadon)
- **Monetary Policy Rules in Practice: The Case of Israel**
  International Review of Economics and Finance, Volume 76, 2021 (with David Papell)

Working Papers

- **Bank Run, Interrupted: Modeling Deposit Withdrawals with Generative AI;** *link*
  Revise & Resubmit at *Management Science*
- **Can ChatGPT Decipher Fedspeak?** (with Anne Hansen); *link*
  Reject & Resubmit at *Journal of Financial and Quantitative Analysis*
- **News and Networks: Using Financial News Coverage to Measure Bank Interconnectedness**
  (with Daniela Scida, Cooper Killen, and John Wu); *link*
  Revise & Resubmit at *Journal of Banking & Finance*
- **Does Media Sentiment Influence Bank Supervision?**
  (with David Aldama-Navarrette, Filippo Curti, and Anne Hansen); *link*
  Revise & Resubmit at *Journal of Financial Stability*
- **Simulating the Survey of Professional Forecasters** (with Anne Lundgaard Hansen, John J. Horton, Daniela Puzzello, and Ali Zarifhonar); *link*
- **Augmenting Human Survey Responses with Generative AI** (with Erik Brynjolfsson, Jose Ramon Enriquez, and David Nguyen); *link*

- **Under Pressure: Strategic Signaling in Bank Earnings Calls** (with Anne Hansen, Thomas R. Cook, and Peter McAdam); *link*
- **Evaluating Local Language Models: An Application to Financial Earnings Calls** (with Anne Hansen, Thomas R. Cook, and Peter McAdam); *link*
- **Social Group Bias in AI Finance** (with Thomas R. Cook); *link*
- **AI and the Fed** (with Erik Brynjolfsson), NBER Working Paper; *link*
- **FOMC *In Silico*: A Multi-Agent System for Monetary Policy Modeling** (with Tara Sinclair); *link*
- ***Ex Machina*: Financial Stability in the Age of Artificial Intelligence** (with Kartik Anand, Agnese Leonello, and Ettore Panetti)

Work in Progress

- **LLM Agents for GDP-B Measurement** (with Erik Brynjolfsson)
- **Measuring Consumer Surplus via Online Choice Experiments** (with Erik Brynjolfsson, Avinash Collis, and David Nguyen)
- **Zoom in on FOMC: A Multimodal Analysis** (with Stefan Menze and Ali Zarifhonarvar)
- **What do LLMs Want?** (with Thomas R. Cook, Zach Modig, and Nathan M. Palmer)

Select Conferences and Invited Talks (Abridged)

Univesity of Chicago Machine Learning in Economics (MLESI) Conference, Wharton 3rd Annual Business & Generative AI Conference, GWU Forecasting Seminar, Board of Governors AI Seminar, FIRS, AMLEDS Seminar, Stanford Data Science Conference, Transformative Power of AI (ECB), Midwest Macro, ESCoE Conference	2025
AI, Cognition, and the Economy (AICE) Microsoft Research, NBER (Digital Economy), FMA, Stanford Digital Economy Seminar, Edwards Bayesian Research Conference, Central Bank Research Association Annual Meeting (CEBRA), Bank of Canada Research Seminar, SF Fed Research Seminar	2024
Columbia University 7th Annual News and Finance Conference, Central Bank Research Association Annual Meeting (CEBRA)	2023
Paris December 2022 Finance Meeting, RiskLab/BoF Conference on Systemic Risk Analytics, York University Finance Seminar, System Conference on Financial Institutions, Regulations, and Markets, System Econometrics Meeting, AEA Annual Meeting	2022
NBER Summer Institute (Monetary Economics), Columbia University Econometrics Seminar	2021

Professional Service

Ad-Hoc Referee:
American Economic Review; Journal of Finance; Journal of Money, Credit and Banking; Journal of Economic Behavior and Organization; Journal of International Money and Finance; Economic Inquiry; Review of Behavioral Finance; Journal of International Financial Markets, Institutions & Money; Review of Corporate Finance Studies; Journal of Behavioral Public Administration; Harvard Data Science Review; International Review of Economics and Finance; Latin American Journal of Central Banking; New Zealand Economic Papers

Languages

English, Hebrew, Ukrainian, Russian (all fluent)