

Anindo Sarkar

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Education

Ph.D. Finance, University of California, San Diego	2025 (expected)
Research Fields: Economic growth, Monetary policy, Asset Pricing	
Dissertation Committee: Allan Timmermann , James Hamilton , Rossen Valkanov , Alexis Toda	
M.B.A. Finance, Indian Institute of Management, Ahmedabad	2016
B.Tech. Mechanical Engineering (Honors), Indian Institute of Technology, Kharagpur	2013

Research

Job-market Paper

Monetary policy, price of risk and growth (with [Xintong Li](#))

Abstract: We uncover a novel channel by which monetary policy affects the economy's supply side through affecting risk premia. In this channel, monetary policy affects the effective risk aversion, that is, the price of risk in the economy. This impacts equilibrium R&D investments and, eventually, TFP growth. Using an asset pricing model, we construct measures of the price of risk shocks and show that increases in the price of risk decrease aggregate R&D. We then quantify the contribution of our channel to the overall R&D and TFP growth response to monetary policy shocks by constructing an endogenous growth model with time-varying risk aversion. Using the model, we find that the price of risk channel accounts for 20% of the reaction of R&D and 33% of the reaction of TFP growth to unanticipated monetary policy.

Peer-reviewed publications

[“Optimal Allocation to Stocks in a Model with Nonlinear Dynamics from the Dividend-Price Ratio”](#)

Fabrizio Ghezzi, Anindo Sarkar, Allan Timmermann, and Thomas Quistgaard Pedersen. , *Annals of Operations Research*, 2024.

Abstract: We study non-linear predictability of stock returns arising from the dividend-price ratio and its implications for asset allocation decisions. Using data from five countries — U.S., U.K., France, Germany and Japan — we find empirical evidence supporting non-linear and time-varying models for the equity risk premium. Building on this, we examine several model specifications that can account for non-linear return predictability, including Markov switching models, regression trees, random forests and neural networks. Although in-sample return regressions and portfolio allocation results support the use of non-linear predictability models, the out-of-sample evidence is notably weaker, highlighting the difficulty in exploiting non-linear predictability in real time.

Working Papers

Green innovation under pressure (with [Xintong Li](#))

Abstract: As the impacts of climate change intensify, firms must overcome the technical challenges of emission reduction while coping with damage from frequent disasters. This paper provides novel evidence on how firms adjust the pace and direction of their innovation in response to costly physical disasters. Leveraging granular data on the joint spatial distribution of climate hazards and economic activity across the

U.S., we do not find firms exposed to acute physical risks cut their R&D expenditure after disaster shocks. Instead, our patent analysis reveals a subsequent shift in these firms' innovation efforts toward green technologies. To examine the underlying mechanisms, we extend the directed technical change framework by incorporating regulatory incentives and firms' learning about future risks. Our findings demonstrate that post-disaster recovery when the advantage of "dirty" vintages weakens, presents a unique window of opportunity for policies to accelerate the low-carbon transition while enhancing climate resilience

Teaching

Teaching Assistant (UC San Diego)

Masters of Finance courses: Financial econometrics, Investment Analysis, Advanced Financial Risk Management, Money and banking 2019-2024

MBA courses: Finance (core), Managerial economics 2019-2024

Policy writings

Sarkar, Anindo, Udayan Dhavalikar, Vikram Agrawal, and Sebastian Morris. "Examination of Affordable Housing Policies in India." *Business and Management Horizons*, 2016.

Employment

Pre-Doctoral Researcher with [Dr. Krishnamurthy Subramanian](#),
Former Chief Economic Adviser to Govt. of India
Indian School of Business Hyderabad, 2016-2018
Projects: Corporate finance projects with Indian firm-level data.

Investment banking intern (M&A division), Macquarie Capital, Mumbai, 2015
Projects: Advisory for clients on mergers and acquisitions targets.

Consultant (Analyst), KPMG India Kolkata, 2013-2014
Projects: Management consulting advisory for Govt. clients.

Undergraduate researcher – Microfluidics laboratory
Dept. of mechanical engg. Indian Institute of Technology, Kharagpur Kharagpur, 2010-2013
Projects: Studied molecular dynamics simulations of flow across DNA in nano-channels.

Research intern: Dynamics and control lab
Department of earth and space sciences, York University Toronto, 2012
Projects: Studied the response of flexible actuators in spacecrafts under rotational impulse.

Research intern: Dept. of aerospace engineering
Indian Institute of Science Bangalore, 2011
Projects: Studied turbulent flow around wing tips of projectiles.

Awards & Fellowships

Richard A. Libby award, UC San Diego (\$10,000) 2023

Research Fellowship, Rady School of Business 2018 - 2024

[MITACS Globalink Award](#), York University (\$2,000) 2012

[Indian Academy of Sciences - Summer Research Fellowship](#) 2011

All India Rank 933 (among 962,119 participants), IIT JEE	2009
Qualified for Indian National Astronomy Olympiad	2008
First-rank Mathematics (among ~ 1 Million participants) National Science Talent Search Examination , India	2006

Seminars & Conferences

ISI Delhi conference (forthcoming)	2024
Society for Economic Dynamics (accepted)	2024
Finance lunch, Rady School of Business	2024, 2023, 2022

Workshop Participation

Computational Methods in Macroeconomics, London School of Economics	2022
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Skills

Dynamic macroeconomic modelling: Julia, Matlab

Statistical data analysis: STATA, R, Python, SAS

Languages: English, Hindi, Bengali

References

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