

Dibya Deepta Mishra

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Current Position

Associate, Cornerstone Research, Chicago 2025 – Present
Econometric and statistical analysis for expert testimony in technology and healthcare litigation; direct teams of 3–5 analysts on methodology, reproducibility, and quality control.

Education

Ph.D. Economics, Rice University 2024
Fields: industrial organization, structural econometrics, causal inference
M.S. Computer Science (Machine Learning & AI specialization), Georgia Institute of Technology 2024
M.Sc. Econometrics and Mathematical Economics, London School of Economics 2017
Post Graduate Diploma in Management, Indian Institute of Management Calcutta 2014
B.Tech. Electrical Engineering, Indian Institute of Technology Jodhpur 2012

Research Interests

Industrial organization; consumer consideration and choice; economics of healthcare markets; digital markets; applied econometrics and machine learning; interpretability of language models

Publications

Local Population Characteristics and Access Equity of 340B Contract Pharmacies (with Maura Coughlin). *Health Affairs Scholar*, 3(7), 2025.
The Wizard of OZ (Opportunity Zones): Spatial Spillovers in Place-Based Programs (with Robin Sickles and Yanfei Sun). Springer, 2025.

Non-Refereed Publications

Incentives in the Healthcare System (with Sisir Debnath and Tarun Jain). Harvard Business Publishing Case Study, 2019.

Working Papers

Quality Considerations and Universal Healthcare (job market paper)
A structural model of hospital choice under limited consideration, estimated on data from a large public insurance scheme in India; artificial neural networks estimate risk-adjusted hospital mortality as the quality measure; counterfactuals evaluate information provision and hospital empanelment incentives. Estimation in Julia, Python, and Stata.
Pennies for Pads: Subsidized Menstrual Health Products and Adoption in India (with Ritika Sethi). Under review.

Doubly robust difference-in-differences estimator on the staggered rollout of Jan Aushadhi Kendra pharmacies; nearly 500,000 women aged 15–24 from two National Family Health Survey rounds; subsidized availability raises sanitary napkin use by 9.6 percentage points. Pipeline in Python and Stata.

Beyond a Free Lunch: Unintended Consequences of an Out-of-School Nutrition Program on Adolescent Girls' School Enrollment and Health Outcomes (with Tanmay Devi, Ajinkya Keskar, and Ritika Sethi).

Spectrum Allocation to Public Operators: A Structural Analysis of Set-Asides versus Subsidies in Indian Telecom Auctions (with Rajarshi Bhowal and Nurdaulet Menglibayev).

Who Matches with Whom: Mergers and Acquisitions in Health Systems

Allocating Bundles: An Operations Research Framework (with Jeremy Fox).

Works in Progress

Long Distance Relationships: Analyzing Hospital-Pharmacy Contracts (with Maura Coughlin)

Do Language Models Represent Utility-Maximizing Choice? An Interpretability Study (independent research)

Trains layerwise linear probes on an open-source language model to test whether the model linearly represents utility-maximizing choice; implemented in PyTorch.

Professional Experience

Associate , Cornerstone Research, Chicago	2025 – Present
Summer Associate , Cornerstone Research, Menlo Park	2024
Economist Intern , Retail Pricing, Amazon, Seattle	2023
Trained a gradient-boosting demand model with language-model-embedding features engineered from product text; built a pricing-optimization model on the estimated demand system.	
Research Assistant for Jeremy Fox, Rice University	2021, 2022 – 23
Research Assistant for Maura Coughlin, Rice University	2022
Research Assistant for Mallesh Pai, Rice University	2021 – 22
Research Assistant for Tarun Jain and Sisir Debnath, Indian School of Business	2017 – 19
Research Assistant for Fabrice Defever, City, University of London	2017
Research Assistant for Jose Iparraguirre, Age UK, London	2015 – 16
Auditor , Business & Regulatory Risk Research, HSBC, Mumbai	2014 – 15

Teaching Experience

Graduate Teaching Assistant , Rice University	2020 – 24
Microeconomics II (Ph.D.), Econometrics I (Ph.D.), Math Camp, Industrial Organization, Macroeconomics II	
Graduate Teaching Assistant , Intermediate Microeconomics, London School of Economics	2016 – 17
Teaching Assistant , Managerial Economics, Healthcare Economics, Economics of Healthcare Markets, Indian School of Business	2017 – 18

Conference Presentations

2024: Texas Camp Econometrics; Development and Political Economics Conference (DevPEC); ASHEcon; Development Economics Workshop (UT Austin); North American Summer Meeting of the Econometric Society

2023: RES and SES Annual Conference; ASHEcon; SEA Annual Conference; APPAM Annual Conference; Annual Conference of Economic Development and Growth; DSE Winter School; Econometric Society Asia Meeting

2022: ASHEcon

Selected Workshops

Optimization-Conscious Econometrics Summer School (U Chicago, 2023); Machine Learning and Heterogeneous Causal Effects (2023); RES Easter Training School (U Bristol, 2023); DSE Structural Econometrics Bootcamps (2021, 2022); DSE Market Design Bootcamp (MIT, 2022); NBER Health Economics Bootcamp (UC Berkeley, 2022); AEA Continuing Education in IO (2021); Math-Econ-Code (2021)

Awards and Fellowships

Social Sciences Research Institute's Dissertation Research Improvement Grant, Rice University 2024 – 25

George R. Zodrow Award for Best Performance in a Workshop, Rice University 2024

RES Conference Grant, Royal Economic Society 2023

Social Sciences Travel Research Grant, Rice University 2021 – 23

W. Michael Carter Fellowship in Economics, Rice University 2021

Rica and Tony Ligeralde Award, Best Performance in the Theory Qualifying Exam, Rice University 2021

Dagobert L. Brito Award, Best Performance by a Recitation Instructor in Economics, Rice University 2021

Maria Esther and Carlos Linares Award, Best Performance in First-Year Courses, Rice University 2020

Graduate Fellowship, Rice University 2019 – 24

Inlaks Scholar, 1 of 12 across India, full scholarship for the LSE M.Sc. 2015 – 17

Charpak Scholar, French Embassy scholarship for exchange at EMLYON 2013

Viterbi India Fellow, 1 of 10 across India, Indo-US Science and Technology Forum (USC) 2011

National Talent Search Examination Scholar, Government of India 2006

Professional Service

Referee: *PLOS ONE*; *Economic Modelling*

Software and Certifications

Programming: Python (pandas, NumPy, scikit-learn, PyTorch), R, Julia, Stata, SQL, MATLAB; AWS (Redshift); QGIS and ArcGIS; Git; $\text{\LaTeX}$

Certifications: Financial Risk Manager (FRM, GARP); CFA Level II candidate

References

Jeremy T. Fox, Professor of Economics, Rice University · fox@rice.edu

Robin C. Sickles, Reginald Henry Hargrove Chair of Economics, Emeritus, Rice University · rsickles@rice.edu

Pau Pereira Batlle, Economist (former manager, Amazon Retail Pricing) · pau.pereira.bcn@gmail.com

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