

Sahil Khatkar

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EDUCATION

University of Texas at Austin , Texas, U.S.A.	GPA: 3.71/4.0
<i>PhD</i> , Economics	2020 - 2026 (Expected)
<i>Research Area</i> : Industrial Organization, Energy Markets	
Duke University , North Carolina, U.S.A.	GPA: 3.97/4.0
<i>Master of Arts</i> , Economics	2018 - 2020
<i>Award</i> : M.A. Merit Scholar for Academic Excellence - Spring & Fall 2019	
Birla Institute of Technology and Science , Pilani, India	GPA: 8.36/10.00
<i>Master of Science (Hons.)</i> , Economics	2011 - 2016
<i>Bachelor of Engineering (Hons.)</i> , Electrical and Electronics	2011 - 2016

REFERENCES

Jackson Dorsey	University of Texas at Austin, jackson.dorsey@austin.utexas.edu
Daniel Akerberg	University of Texas at Austin, daniel.akerberg@utexas.edu
Allan Collard-Wexler	Duke University, allan.collard.wexler@duke.edu
Charles M. Becker	Duke University, cbecker@econ.duke.edu

WORK EXPERIENCE

Assistant Instructor	Fall 2023
<i>University of Texas at Austin</i>	

- Taught a 30 student section of 'Introduction to Microeconomics' via weekly in-person lectures.
- Designed the syllabus, course material, assignments, and grading rubric for the course.

Teaching Assistant	Aug 2020 - Present
<i>University of Texas at Austin</i>	

- Assisted in various undergraduate and master's level intermediate microeconomics courses.
- Conducted weekly office hours, in-person or recorded review sessions, and graded assignment submissions.

Research Assistant	April 2019 - May 2020
<i>Allan Collard-Wexler, Duke University</i>	

- Worked on measuring the impact of production misallocation in the oil extraction industry.
- Developed MATLAB code to analyze dynamic counterfactual paths for oil extraction.

Credit Suisse	July 2015 - June 2018
<i>Market Risk Quant (Pricing Model Validation Team), Mumbai</i>	
<i>Intern (July 2015 - June 2016); Full-time (June 2016-18)</i>	

- Tested the validity of interest rates/FX pricing and market volatility models using counterfactual analysis.
- Developed capital reserve frameworks for interest rates products to account for model uncertainties.

National Thermal Power Corporation	May 2014 - July 2014
<i>Tech Intern, Badarpur</i>	

- Analyzed the functioning of measurement devices in the boiler of a coal fired thermal power plant.
- Optimized the oil gun mechanism in the furnace by introducing a thermocouple based control system.

PUBLICATION

Sindhu, S., **Khatkar, S.**, and A. Panghal, “Fiscal Federalism and States’ Economic Growth in India - An Analytical Study,” *Indian Journal of Science and Technology*, Vol 9, Issue 48 (2016).

ACADEMIC PROJECTS AND CONFERENCES

Multi-homing on Heterogeneous Taxi Hail Modes: Optimal Driver Choice in NYC Fall 2022
Second Year Paper, University of Texas at Austin

- Analyzed Yellow Taxi (YT) companies’ partnership with Uber which allows YT to be hailed using Uber.
- Computed a dynamic spatial equilibrium model of drivers’ simultaneous search & hail mode choice.
- Found that it improves consumer welfare while drivers’ surplus varies based on density of search location.

Vertically Separated Production and Distribution: Impact on Knowledge-based Growth Fall 2019
Pietro Peretto, Duke University

- Assessed the impact of market structure on knowledge-based endogenous growth.
- Introduced monopolistic distributors to contrast with the growth dynamics of a vertically integrated market.
- Concluded that vertical integration leads to higher rates of R&D but fewer firms producing goods.

A Dynamic Prospect Theory for Regime Change with External Shock Spring 2019
Charles Becker, Duke University

- Analyzed investment decisions in de facto political power for two agent types: elites and citizens.
- Modeled bias in agents’ decision-making using prospect theory in a symmetric Markov Perfect Equilibrium setting.
- Concluded that biases could lead to complacency in investment decisions and consequently to regime changes.

State-wise Analysis of Environmental Kuznets Curve Hypothesis in India Spring 2013
Samik Chowdhury, Institute of Economic Growth

- Created a Pollution Index for each state using Principal Component Analysis.
- Discovered evidence supporting the hypothesis in well-defined regional pockets.

Harvard Project for Asian and International Relations Conference Spring 2015
HPAIR, Harvard University

- Attended as delegate in the ‘Finance and World Economy’ panel.
- Participated in case studies and group discussions on the theme - Asia’s Blueprint for Growth.

TECHNICAL SKILLS

High Proficiency	Python, MATLAB, R, F#, MS Excel/VBA, LaTeX, Adobe Photoshop
Base Proficiency	STATA, C#, EViews, GAMS