

SKAND GOEL

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PROFESSIONAL SUMMARY

- Econometrician with extensive experience in data science & mathematical modeling.
- Programming experience in Python, R, STATA, GIS, SQL, and cluster computing (Unix environment).
- Proficient in data science techniques including time-series, optimization & statistical model calibration.
- Domain knowledge in empirical asset pricing, machine learning methods & climate finance.
- Expertise in environmental economics, macroeconomic DSGE models & causal inference.
- *Available to start work immediately* - Ph.D. coursework and dissertation research complete.

EDUCATION

New York University, New York, NY. May 2021 (expected)
Ph.D., Econometrics and Quantitative Economics
Research Areas: Econometrics, Applied Microeconomics, Environmental and Development Economics.

Delhi School of Economics, Delhi University, New Delhi. 2011 – 2013
Masters, Economics.

Delhi University, St. Stephen's College, New Delhi. 2008 - 2011
B.A. (Hons.), Economics.

ACADEMIC RESEARCH

Impact of changes in long-run beef demand on Brazilian deforestation

Estimate and predict the response of future deforestation in the Brazilian Amazon/Cerrado to changes in global commodity prices.

- Postulate a stochastic dynamic optimization economic model of cattle ranching and deforestation.
- Curate novel data on satellite-based deforestation rates and GIS-based beef prices for calibrating this model.
- Use this model to simulate long-run deforestation rates under alternative demand scenarios.

Farmers' responses to groundwater depletion in India

Estimate and simulate the impact of depleting groundwater table on smallholder investment in groundwater extraction.

- Propose a dynamic equilibrium model of irrigation investment and groundwater levels.
- Calibrate this model with novel village-level panel data on irrigation, agricultural returns, and water table.

Public versus Private Provisioning: Role of Education and Political Participation, with Mausumi Das, Adway De, and Tridip Ray.

Theoretical model analyzing the links between mass education and government provisioning of private goods in democracies.

- Develop a new mathematical model explaining equilibrium trade-offs between civic action and private action.
- Co-authored paper with principal investigator during a year-long stint at *Indian Statistical Institute, New Delhi*.

PROFESSIONAL TEACHING EXPERIENCE

Instructor, Intermediate Microeconomics (NYU) 2020

- Designed and taught a course in mathematical economics to a class of 45 undergraduate students.

Teaching Assistant, several courses at Ph.D., MBA, and undergraduate levels 2015-2019

- Conducted R programming workshops, recitation lectures, and consultation sessions for Ph.D. *Econometrics*, and undergraduate *Econometrics*, *Statistics*, and *Microeconomics*.
- Taught macroeconomics and advised student research for the MBA course *Challenges in the Global Economy* (NYU Stern)

RESEARCH ASSISTANT EXPERIENCE

NYU Stern, Prof. Paul Scott 2018

- Sourced data and created panel data/time series models to study impacts of EU bioenergy policies.

NYU, Prof. Hunt Allcott 2016-2017

- Analyzed data from experiments designed to study car buyers' attention to fuel economy.
- Liaison between the research team at NYU/MIT and the data processing team in Bangalore, India.