

SKAND GOEL

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PROFESSIONAL SUMMARY

- Economic researcher with demonstrated experience in econometrics & computational models.
- Programming experience in R, Python, STATA, GIS, SQL, and cluster computing (unix environment).
- Proficient in time-series/panel data analysis, causal inference & nonlinear model calibration/estimation.
- Familiarity with machine learning methods and macroeconomic DSGE models.

EDUCATION

New York University, New York, NY.

May 2021 (expected)

Ph.D., Econometrics and Quantitative Economics

Research Areas: Applied Microeconomics and Econometrics, 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

Demand for tropical deforestation in Brazil: Role of cattle ranching dynamics

Estimate and predict the response of future deforestation in the Brazilian Amazon 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.

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

PROFESSIONAL TEACHING EXPERIENCE

Instructor, Intermediate Microeconomics (NYU)

2020

- Designed and taught a semester course 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

- Examined potential land-use impacts of energy policies encouraging burning wood-residue for fuel.
- Assembled data and estimated panel data/time series models to quantify reduced-form land use elasticities.

NYU, Prof. Hunt Allcott

2016-2017

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