

# SKAND GOEL

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## EDUCATION

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**New York University**, New York, NY.

*Ph.D., Econometrics and Quantitative Economics*

April 2021 (expected)

Research Areas: Econometrics, Applied Microeconomics, Environmental and Development Economics.

**Delhi School of Economics, Delhi University**, New Delhi.

*Masters, Economics.*

2011 – 2013

**Delhi University**, St. Stephen's College, New Delhi.

*B.A. (Hons.), Economics.*

2008 - 2011

## ACADEMIC PAPERS

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**Cattle Ranching and Deforestation in the Brazilian Amazon** (2020)

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

- Assemble county-level panel dataset of deforestation rates (based on satellite GIS) and returns to cattle.
- Structurally estimate a dynamic-optimization based economic model of land-use and cattle ranching, and simulate it to quantify short-run and long-run price elasticities of land-cover change.

**Farmers' responses to groundwater depletion in India** (2019, in progress)

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

- Assemble village-level panel dataset on small-scale irrigation and measures of agricultural returns and groundwater levels.
- Structurally estimate a dynamic equilibrium model of irrigation investment and groundwater levels.

**Public versus Private Provisioning: Role of Education and Political Participation** (2014), with Mausumi Das, Adway De and Tridip Ray.

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

- Model trade-offs faced by educated classes in political participation and derive implications for equilibrium government action.

## PROFESSIONAL RESEARCH EXPERIENCE

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**Research Assistant**, Prof. Paul Scott (NYU Stern)

Summer 2018

- Studied 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.

**Research Assistant**, Prof. Hunt Allcott (NYU)

2016-2017

- Studied car buyers' attention to fuel economy to evaluate EPA's rationale for new fuel-economy standards.
- Cleaned and analyzed data from two information provision experiments.
- Liaison between research team at NYU/MIT and data processing team in Bangalore, India.

**Research Assistant**, Prof. Tridip Ray (Indian Statistical Institute, New Delhi)

2013-2014

## PROFESSIONAL TEACHING EXPERIENCE

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**Instructor**, Intermediate Microeconomics (NYU)

Summer 2020

- Designed and taught a semester-equivalent 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* (NYU Stern, Fall 2018) and *Undergraduate Econometrics* and *Undergraduate Statistics* (for three terms each from 2015-2019).
- Taught macroeconomics and supervised student papers for the MBA course *Challenges in the Global Economy* (NYU Stern, Fall 2016) taught by eminent economists Prof. Michael Spence, Prof. Peter Henry, and Prof. David Brady.

## OTHER SKILLS

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- Working knowledge of machine learning methods and their applications to Causal Inference/Econometrics.
- Extensive experience with numerical methods, including dynamic optimization and DSGE macroeconomic models.
- **Programming languages:** Extensive experience with Python, R, STATA, and GIS tools. Limited experience with Matlab and Julia.