

MANASWINI RAO

**Contact
Information**

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**Doctoral
Studies**

University of California, Berkeley
PhD, Agricultural and Resource Economics, Expected completion May 2020
DISSERTATION: "Essays in Empirical Institutional Economics"

PRIMARY FIELDS: Development Economics
SECONDARY FIELDS: Political Economics, Applied Econometrics

Professor Aprajit Mahajan
aprajit@berkeley.edu
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Dept of Agricultural & Resource Economics
Professor Elisabeth Sadoulet
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Dept of Agricultural & Resource Economics

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+1 (510) 642-7284
Department of Economics and Business Administration

**Placement
Officers**

<u>Professor Sofia Villas-Boas</u> sberto@berkeley.edu +1 (510) 409-4341	<u>Professor Max Auffhammer</u> auffhammer@berkeley.edu +1 (510) 643-5472	<u>Diana Lazo</u> lazo@berkeley.edu +1 (510) 642-3345
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**Prior
Education**

University of California Berkeley	Master of Public Policy	2010
B.M.S College of Engineering (V.T.U), India	B.Engg. (Comp Sc. and Engg.)	2004

**Grants,
Fellowships,
and Awards**

2019	The Jean O. Lanjouw Memorial Endowment (\$757); UC Berkeley Conference Travel Grant (\$ 900)
2018	IRLE Graduate Student Award (w/ Vaishnavi Surendra) (\$6000)
2017	ATAI Grant (w/ Xavier Gine, Aprajit Mahajan, Anup Malani) (\$233,565)
2017	IGC Grant for Judicial Efficiency and Economic Outcomes (Aprajit Mahajan (PI)) (£50,000)
2015	Levin Family Fellowship (w/ Fiona Burlig and Louis Preonas) (\$ 800)
2015	Maharaj Kaul Research Travel Grant (\$ 1000)
2014	Post Primary Education Initiative Exploratory Grant (w/ Bastien Michel and Bhavya Srinivasan) (\$ 10000)
2013	USAID DIV Award Pilot Stage, (w/ Emily Breza, Arun Chandrasekhar, and Ashish Shenoy) (\$ 99,632)
2009-2010	Berkeley International Office Fellowship
2009	Jacob K. Javits Summer Fellowship

Teaching

UC Berkeley	Dept. ARE and Public Policy (joint), <i>International Economic Development (Master)</i> Alain de Janvry and Bruce Wydick	2017
UC Berkeley	Dept. ARE and Economics (joint), <i>Economic Development (Undergraduate)</i> Aprajit Mahajan	2016
UC Berkeley	Dept. Economics, <i>Intermediate Macroeconomic Analysis (Undergraduate)</i> Steven Wood	2010
UC Berkeley	Dept. Economics, <i>20th Century Economic History (Undergraduate)</i> Brad DeLong	2009

Research Papers

“Judges, Lenders, and Bottomline: Court-ing Economic Growth in India” (JOB MARKET PAPER)

Abstract. Courts are considered important in the functioning of markets. Yet, there is limited causal evidence showing this relationship. This paper estimates the causal effects of the backlog in courts on formal sector firm growth by examining the entire causal chain, illustrating contract enforcement in local credit markets as an important channel. To show this, I construct a novel panel dataset on court-level variables from disaggregated trial-level data comprising the universe of 6 million case records spanning 9 years across 195 district courts in India. I match this data with a dataset on formal sector firms by the location of firm’s registered office. Additionally, I match the trial dataset with the firms data to understand the patterns in litigation involving firms. To address the identification challenge, I exploit quasi-random variation in judge vacancy to instrument for court backlog. There are three key implications of this paper. First, reducing judge vacancy by adding one judge reduces the backlog by 6%. Second, a reduction in court backlog stimulates bank lending in local credit markets by improving the enforceability of credit contracts. Adding one more judge to a court with vacancy increases bank lending by 0.5% one year later. Third, this affects credit availability, production, and profitability of firms located within the court’s jurisdiction. Firm profits increase by 1.6% or by USD 750 per firm when vacancy is reduced by one judge. Finally, this yields an 8:1 benefit to cost ratio of reducing vacancy by one judge, implying that vacancies in the judiciary is extremely costly for the economy.

Research in Progress

“Mission Kakatiya: Impact Evaluation of Minor Irrigation Tank Rehabilitation in Telangana” with Xavier Gine, Aprajit Mahajan, Anup Malani

Pre-analysis plan filed with the AEA RCT Registry (#AEARCTR-0001821).

Abstract. We evaluate the effects of rehabilitating local village level irrigation tanks on agricultural outcomes using a combination of observational and experimental approaches. Tank irrigation is a common (and climate friendly) mode of irrigation in Southern and Western India, which is based on impounding the surface run-off during rainy season for later use. However, since these are common pool resources, a lack of periodic upkeep had led to excessive silting and therefore, lowered capacity. Mission Kakatiya is a state-wide program in Telangana that aims to rehabilitate over 45000 tanks across the state in multiple phases. We make use of the staggered roll-out of earlier phases to study the impacts and understand the context of implementation in a differences-in-difference framework using a sample of 750 tanks. Further, we validate the findings using an experimental approach where we randomize the order of rehabilitation on a set of 92 tanks.

“The Power of Agency: Evidence from India” with Xavier Gine, Aprajit Mahajan, Anup Malani

Pre-analysis plan filed with the AEA RCT Registry (#AEARCTR-0004336).

Abstract. Community-driven development (CDD) emphasizes a “bottom-up” approach focusing on community control over planning and implementation decisions to improve development outcomes. We propose to assess the value of community participation in choosing the location and implementation of local infrastructure projects by comparing a participatory “bottom-up” approach to the standard “top-down” planning and implementation where the community only plays a limited role. The context for the study is the construction of minor irrigation channels in the command area of small irrigation tanks in Telangana. The government has recently launched a program to rehabilitate the storage capacity of the tanks but has left the distribution of water from the tank to plots in the command area to the farmers. The research project thus varies the extent of community involvement over the choice and implementation of field channels and assesses its impact on irrigation resource allocation, agricultural outcomes, and continued maintenance.

“Got (Clean) Milk?: Incentives for Cleanliness in Indian Dairy Cooperatives” with Ashish Shenoy

Pre-analysis plan filed with the AEA RCT Registry (#AEARCTR-0000700).

We implement a randomized evaluation to pay for lower bacteria count among cooperative dairy producers in rural Karnataka. Incentives for cleaner milk are applied at a group level and paid into a shared cooperative bank account. We further vary whether incentive payments are announced publicly to cooperative members or revealed privately to cooperative management alone. Results show that group incentives are sufficient to improve production quality in village cooperatives. However, this result is sensitive to the way in which incentives are administered. When faced with the prospect of public announcement, managers in a third of cooperatives opt out of receiving incentive payments entirely, undermining any possible incentive effect. Dropout is most common among cooperatives with weaker management oversight. We argue that the decision to opt out only in the face of publicly announced incentives seems inconsistent with the Coase Theorem and other simple models of joint utility maximization.

Research in Progress	“Gender Wage Gap in Agricultural Labor Markets in Rural India” with Vaishnavi Surendra Abstract. We explore the determinants of gender wage gap in the agricultural labor markets in India and examine the role of social norms in perpetuating it. We use multiple approaches to address these questions including analyzing secondary data from ICRISAT VDSA Panel, collecting primary data via surveys to elicit expectations and behavioral parameters to complement the former data source, and finally in a related project, investigate the role gender norms in influencing such behavior perpetuating the wage gap and other labor market outcomes through a lab-in-field experiment.		
Book Chapters	de Janvry, A., Rao, M., Sadoulet, E. (2017) Learning for adopting: Technology adoption in developing country agriculture, Ferdi, 120 p., de Janvry, A., Macours K., Sadoulet, E. (eds) (2017)		
Prior Employment	UC Berkeley , Graduate Student Researcher (Profs Aprajit Mahajan, Alain de Janvry, Elisabeth Sadoulet, Supreet Kaur) The World Bank , Consultant J-PAL South Asia , Senior Research Manager (position at the time of exit) The Asian Development Bank , Consultant Janaagraha , Associate Infosys Ltd , Software Engineer	2014 - Present 2018 2010 - 2014 2009-10 2006-08 2004	
Talks	2020 Royal Economic Society Conference, Belfast (scheduled) 2019 NEUDC; UC Berkeley Development Econ Seminar Series; ARE Dept. Seminar 2018 UC Berkeley Development Lunch Series 2017 J-PAL South Asia Annual Staff Meet; Intro to Probability and Statistics (DAKSH) 2014 Dept. of Agriculture, Government of Tamil Nadu, India 2013 Impact Evaluation of Population, Health and Nutrition Programs, PHFI, New Delhi, India		
Activities	2015 - 2019 Leadership Board, Women in Economics at Berkeley 2018 - 2019 ARE PhD Admissions Committee Student Member 2015 - 2016 Organizer, Dept. Coffee Hour		
Languages	English (proficient), Hindi (proficient), Kannada (native), Tamil (conversational)		
Skills	R (proficient), Stata (proficient), Python (Intermediate), C++, Java		