MANASWINI RAO

Contact Information	manaswini.rao@gmail.com http://manaswinirao.com +1-(510)-280-4704 FIELDS: Development Economics, Law and Econ, Political Economy, Agricultur Economics	e and Natural Resource	
Academic Employment	University of Delaware, Assistant Professor, Dept. of EconomicsAug 2023 -UC San Diego, Postdoctoral Scholar, Dept. of EconomicsJuly 2020 - June 2023		
Affiliations	Invited Researcher, J-PAL South AsiaDec 2021 -Invited Researcher, The World Bank DIME GroupMarch 2022 -		
Prior Education	Ph.D., Agricultural and Resource Economics, UC Berkeley2020Master of Public Policy, UC Berkeley2010B.E. (Comp. Sc.), Visveswaraya Technological Univ, India2004		
Publications	"Got (Clean) Milk?: Organization, Incentives, and Management in Indian Dairy Cooperatives" with Ashish Shenoy Journal of Economic Behavior and Organization, Vol 212, Aug 2023, Pages 708-722 (Open Access Version) Pre-analysis plan filed with the AEA RCT Registry (#AEARCTR-0000700) Coverage: VoxDev		
Working Papers (Judicial Ca- pacity)	 <i>Coverage:</i> VoxDev "Front-line Courts as State Capacity: Evidence from India" (Under Review) <i>Coverage:</i> (Ideas for India Blog-post, LiveMint). <i>Abstract:</i> Well-functioning frontline courts facilitate dispute resolution, making them a core aspect of state capacity. Using rich data from India and an event study research design, I show that the timing of judge staffing changes have a persistent effect on judge headcount and vacancy rates in the corresponding district court. Removal of vacancy substantially improves local judicial capacity, where each additional judge resolves court backlog by 10 percent. In a context with high levels of backlog, this capacity improvement enables credit circulation through local bank-branch balance sheet effects from legal case resolutions including debt recovery disputes. With better access to credit, productivity of local formal sector firms increases, generating a benefit-cost ratio exceeding 3. "Institutional Factors of Credit Allocation: Examining the Role of Judicial Capacity and Bankruptcy Reforms" <i>Abstract:</i> Poor creditor rights constrain the functioning of credit markets, that subsequently affects the availability of credit for productive uses. I use a difference in difference ersearch design by comparing districts with low judge vacancies and those with high vacancies, before and after the 2016 national legislation on bankruptcy resolution in India that increased creditor rights. First, I find that banks reduce lending towards unproductive uses such as lending to defaulting firms and increase lending based on capital efficiency in districts with better judicial capacity. Second, improved creditor rights Coupled with better judicial capacity increases repayment. Third, banks are more likely to initiate and witness resolution of debt recovery related litigation in districts with better judicial capacity. Second, improved creditor rights Outcomes" <i>Abstract:</i> In this paper, I examine the effect of judge vacancy		

Working Papers (Agriculture and Struc tural Trans formation)	Seeding the Seeds: Role of Social Structure in Agricultural Technology Diffusion" with Alain de Janvry and Elisabeth Sadoulet <i>(Under Review) AEA RCT Registry</i> (#AEARCTR-0002157) <i>abstract:</i> Exploiting the two-stage randomized introduction of flood resistant seeds in rural Odisha, India, we find that the local social structure (the jati caste system) has a significant influence on diffusion of the echnology. First, modest overall differences in adoption between treated and control villages is largely xplained by the substantial heterogeneity in village-level jati fractionalization. Second, we find immediate liffusion among non-recipient farmers in the same jati groups as the initial, treated recipients and lower technology in a context of weak markets and closed social structures.	
	"Towns and Rural Land Inequality in India" with Prashant Bharadwaj and Juan Eberhard <i>Abstract:</i> Using the universe of land records from a large state in India, we document three empirical facts on rural land holding inequality at the village-level: 1) inequality is higher close to urban areas and decreases with distance, 2) this is due to fewer medium-sized farms (i.e. more small and large farms near urban areas), and 3) the distance to urban area-land holding inequality relationship depends on the size of the urban area - larger the urban area, greater the inequality close to such towns. A simple model where individual farmers face financial frictions, a U-shaped agriculture production function linking land size and farm productivity, and a significant urban opportunity cost of farm production, explains these patterns. While medium-sized farmers exit agriculture and large farmers consolidate, financial and land market frictions are key factors behind the preponderance of small farms even near towns.	
Work in Progress	 "Mission Kakatiya: Impact Evaluation of Minor Irrigation Tank Rehabilitation in Telangana" with Xavier Gine, Aprajit Mahajan, Anup Malani <i>Endline ongoing. Pre-analysis plan filed with the AEA RCT Registry</i> (#AEARCTR-0001821). <i>Abstract:</i> 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, India, 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 <i>Endline</i> ongoing. 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. Using a randomized trial, we 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, India, across 240 villages and a sample of over 6000 farmers. 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. Our intervention 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.

"Land inequality and rural structural transformation: Evidence from India" with Frances Lu and Harrison Mitchell *Analysis ongoing*

"Improving Dispute Resolution for Credit and MSME Growth: Evidence from Mediation and Arbitration Systems" with Daniel Chen, Shareen Joshi *Pilot in progress*

Book Chap- ters	Rao, M., Court Efficiency and Business Outcomes: Measuring the Performance of District Courts, in Justice Frustrated: The Systemic Impact of Delays in Indian Courts, Bloomsbury India, Shruti Vidyasagar, Shruthi Naik, and Harish Narasappa (eds) (2020)		
	•	A., Rao, M., Sadoulet, E. (2017) Learning for adopting: Technology adoption in develop- agriculture, Ferdi, 120 p., de Janvry, A., Macours K., Sadoulet, E. (eds) (2017)	
Teaching (TA/GSI)	Introduction to Environmental Economics, Undergraduate Course Intermediate Development Economics (with models), Undergraduate Course Intermediate Macroeconomic Analysis, Undergraduate Course 20th Century Economic History, Undergraduate Course International Economic Development and Policy, Masters Course		
Grants, Fellowships, and Awards	2022 2021	STEG PhD Research Grant £15,000 (w/ Frances Lu) J-PAL GI and K-CAI Grants \$100,000 and \$101,654; FID Grant €129,720 (w/ Xavier Gine,	
	2019-20	Aprajit Mahajan, Anup Malani) The World Bank Research Grant \$124,490; ATAI Top-up Grant \$49,207 (w/ Xavier Gine, Apra- jit Mahajan, Anup Malani); The Jean O. Lanjouw Memorial Endowment (\$757); UC Berkeley Conference Travel Grant (\$900)	
	2018	IRLE Graduate Student Award (w/ Vaishnavi Surendra, \$6000), The World Bank Proposal Development Grant (w/ Xavier Gine, Aprajit Mahajan, Anup Malani, \$30,000)	
	2017	ATAI Grant (w/ Xavier Gine, Aprajit Mahajan, Anup Malani, \$30,000) ATAI Grant (w/ Xavier Gine, Aprajit Mahajan, Anup Malani, \$233,565), IGC Grant for Judicial Efficiency and Economic Outcomes (PI Advisor: Aprajit Mahajan, £50,000)	
	≤ 2016	Levin Family Fellowship (w/ Fiona Burlig and Louis Preonas, \$ 800), Maharaj Kaul Research Travel Grant (\$ 1000); Post Primary Education Initiative Exploratory Grant (w/ Bastien Michel and Bhavya Srinivasan, \$ 10,000); USAID DIV Pilot Award, (w/ Emily Breza, Arun Chan- drasekhar, and Ashish Shenoy, \$ 99,632); Berkeley International Office Fellowship; Jacob K. Javits Summer Fellowship	
Talks	2023	University of Delaware Economics; University of Wisconsin AAE; Ohio State University AEDE; Ashoka University Economics; IIM-Bangalore Econ Area; Shiv Nadar University Economics; Krea University	
	2022	CGIAR SPIA Webinar; STEG Annual Conference; PacDev USF; Oxford CSAE Poster Session; Urban Economics Asso. Europe Meeting (LSE); University of Kent (Econ Dept. Seminar); Advances in Micro Development Economics-Barcelona GSE Summer Forum; The World Bank ABCDE; Plaksha University; NYU-Abu Dhabi Economics; IIT-Kanpur Economics	
	2021	ASSA Poster Session; PacDev, UC San Diego; Oxford CSAE Conference; University of Kent (Econ Department Seminar); NBER Org Econ Spring Meet (co-author presenting); UC Riverside (Applied Econ Seminar); NEUDC (Boston U); ISI-Delhi Conference	
	2020	PacDev, UC Berkeley; Royal Economic Society Annual Conference (cancelled); SIOE (self or- ganized session); Advances in Micro Development Economics-Barcelona GSE; ALEA Annual Conference (cancelled); Webinar Series in Finance and Development; Virtual Law and Macro Conference, Yale; NBER Fall Development (lightning round)	
	2019	NEUDC (Northwestern U); UC Berkeley (Econ and ARE Dept Seminars); Berkeley Under- graduate Women in Economics Research Panel	
	≤ 2018	UC Berkeley Development Lunch 2018; J-PAL South Asia Annual Staff Meet 2017; Dept. of Agriculture, Government of Tamil Nadu 2014; PHFI New Delhi 2013	

Refereeing	American Economic Review-Insights; Berkeley Economists for Equity (Grant Review); Economics of Educa- tion Review; Economic Modelling; Environment and Development Economics; The Indian Economic Journal; Journal of Development Economics; Journal of Law and Economics; Journal of Political Economy; National Science Foundation (Grant Review); Rand Journal of Economics; Review of Economics and Statistics		
Service	UCSD-Indian Economy Seminar Series Co-Organizer; Academic Mentor UC Berkeley UN-SDG Undergrad- uate Research Group Fall 2020; CEGA East Africa Social Science Translation Mentorship Program Spring 2019; Women in Economics (UC Berkeley); UC Berkeley ARE PhD Admissions Committee Student Member; UC Berkeley ARE Department Coffee Hour		
Prior	2018	The World Bank, Consultant	
Employment	2010-14	J-PAL South Asia, Senior Research Manager (position at the time of exit)	
	≤ 2010	The Asian Development Bank, Consultant; Janaagraha, Associate; Infosys Ltd, Software Engineer	
Languages	English (proficient), Hindi (proficient), Kannada (native), Tamil (conversational), R (proficient), Stata (proficient), Python (Intermediate)		
Citizenship	Indian Citizen (on H1B)		