

## DWEEPOTEE BRAHMA

**National Institute of Public Finance and Policy,**  
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<b>EMPLOYMENT</b>	<b>Fellow – II,</b> National Institute of Public Finance and Policy	<b>July 2020 – present</b>
	<b>Associate Fellow,</b> Brookings Institution India Center	<b>September 2019 – June 2020</b>
<b>EDUCATION</b>	<b>Ph.D. in Applied Economics,</b> Western Michigan University, Kalamazoo MI. <i>Dissertation Title: “Essays on the application of Machine Learning in Development Economics”</i> <i>Dissertation Advisor:</i> Prof. Debasri Mukherjee	<b>2019</b>
	<b>Master of Arts in Economics,</b> State University of New York at Buffalo.	<b>2015</b>
	<b>Master of Science in Economics,</b> Calcutta University, Kolkata, India. <i>First-Class with specialization in Applied Econometrics.</i>	<b>2013</b>
	<b>Bachelor of Science in Economics,</b> Calcutta University, Kolkata, India. <i>First-Class Honors with minor in Mathematics.</i>	<b>2011</b>
<b>FIELDS OF SPECIALIZATION</b>	<b>Applied Econometrics (with Data-Mining and Machine Learning),</b> Development Economics, Health Economics, Labor Economics.	
<b>DATA SCIENCE CERTIFICATIONS AND COURSES</b>	<b>Data Science Specialization,</b> Johns Hopkins University through the Coursera platform.	<b>2018</b>
	<b>Applied Data Science with Python Specialization,</b> University of Michigan through the Coursera platform.	<b>2018</b>
	<b>Applied Data-Mining,</b> <b>Computer Based Data Analysis,</b> Department of Statistics, Western Michigan University	<b>Fall 2017</b> <b>Spring 2018</b>
<b>PUBLICATIONS</b>	“Infant malnutrition, clean-water access and government interventions in India: A Machine Learning approach towards causal inference” with Debasri Mukherjee. <i>Applied Economics Letters.</i> (forthcoming)	
	“Policy Complementarities in Achieving Universal Immunization Coverage in India” with Debasri Mukherjee. <i>Economic and Political Weekly</i> , 2020, Vol 55 (38).	
	“India’s Universal Immunization Program: A lesson from Machine Learning” with Debasri Mukherjee	

*Economics Bulletin*, 2019, Vol 39(1).

“India’s Mid-day meal program and schooling: An evaluation based on Machine Learning” with Debasri Mukherjee  
*Applied Econometrics and International Development*, 2018, Vol 18(1).

## WORKING PAPERS

“Early Warning Signs: Targeting Neonatal and Infant Mortality using Machine Learning” with Debasri Mukherjee. (*submitted*)

“Public Health Insurance Schemes and Early-life health expenditure in India” with Debasri Mukherjee.

## WORKS IN PROGRESS

“Approaches to Public Financing of Health in India: the way forward” NIPFP project with Mita Choudhury

“Measuring media sensitivity to property-related conflicts through Big Data” with Aradhika Menokee

“Predicting Maternal Mortality and Still Birth Rates”

“Predicting Loan defaults and Foreclosure using loan performance data from Fannie Mae”

## BLOGS

“[The Role of Public and Private Healthcare services in Covid Testing and Treatment](#)” *NIPFP Blog*, 2020

“[The early days of a global pandemic: A timeline of COVID-19 spread and government interventions](#)” *Up Front, Brookings India*, 2020  
with Sikim Chakraborty and Aradhika Menokee  
Cited in: [WHO Global Preparedness Monitoring Report, 2020](#)

“[Does India have enough doctors? An analysis of growing COVID-19 patients and existing medical capacity](#)” *Up Front, Brookings India*, 2020  
with Prachi Singh and Sikim Chakraborty

“[The persistence of memory: The burden of Alzheimer’s disease in India](#)” *Up Front, Brookings India*, 2019

## TEACHING EXPERIENCE

**Instructor,**  
*Principles of Microeconomics.*

**Spring 2018, Fall 2018, Spring 2019**

**Graduate Teaching Assistant,**  
Principles of Macroeconomics,  
Econometrics,  
Exploring Economic Data,  
Environmental Economics,  
Economic Development.

**Fall 2015 – Summer 2019**

## EXPERIENCE WITH DATA

Indian Human Development Survey,  
National Sampling Survey Organization, India-various rounds,

National Family Health Survey,  
 Indian Census Data,  
 US Census Data,  
 Real-estate data from CoreLogic-spatial analysis,  
 Mortgage and Loan data from Fannie Mae and Freddie Mac.  
 Global Database of Events, Language and Tone (GDELT)

## AWARDS AND FELLOWSHIPS

**Departmental Graduate Research and Creative Scholar Award** 2019  
 Department of Economics, WMU

**Outstanding Poster Presentation,** 2018  
 Research and Creative Activities Poster and Performance Day, WMU.

**Graduate Teaching Assistantship, WMU.** 2015- 2019

**UB Foundation Fellowship, SUNY at Buffalo.** 2014-15

**Graduate Teaching Assistantship, SUNY at Buffalo.** 2013-14

**The Endowment Foreign Travel Fellowship,** 2013  
 Calcutta University.

**Prize for excellence in Economics Essay Competition,** 2012  
 Alumni Association of Calcutta University Economics Department.

## GRANTS

**Certification Grant,** Graduate Student Association, WMU. 2018

**Graduate Student Travel Grant,** Graduate College, WMU. 2017

**Conference Travel Grant,** Graduate Student Association, WMU. 2016

**Graduate Student Research Grant,** Graduate College, WMU. 2016

## PAPER PRESENTATIONS AND INVITED TALKS

**2021** International Health Economics Association (*scheduled*)

**2020** American Economic Association Annual Meeting (*San Diego*)  
 Annual Conference of the Indian Econometric Society (*Madurai*)  
 Indian Statistical Institute, Delhi  
 Indian Institute of Management, Bangalore (*virtual*)  
 Jinhe Center for Economic Research, Xi'an Jiaotong University  
 (*Invited seminar talk*)

**2019** Indian Statistical Institute, Kolkata, Reserve Bank of India,  
 Brookings Institution India Center, National Council of Applied  
 Economic Research, Shiv Nadar University, Meghnad Desai  
 Academy of Economics, AEA-ASSA Annual Meeting (*Atlanta*)

**2018** Grand Valley State University, (*Invited seminar talk*)  
 AEA-ASSA Annual Meeting, (*Philadelphia*)

**2017** AEA-ASSA Annual Meeting, (*Chicago*)

## SOFTWARE

R, STATA, Python, EVIEWS, Mathematica, MATLAB, Tableau, LaTeX.

<b>LANGUAGES</b>	English (Fluent), French (Working Proficiency), Bengali (Native), Hindi.	
<b>REFEREE SERVICE</b>	<i>Applied Economics Letters,</i> <i>Journal of Population Economics</i>	
<b>PROFESSIONAL MEMBERSHIPS</b>	American Economic Association, Association of Indian Economic and Financial Studies, Indian Econometric Society, Global Labor Organization Affiliate, R-Ladies, PyLadies.	
<b>PROFESSIONAL SERVICES</b>	Referee for R-ladies diversity scholarship applications 2020 ‘ <b>Mentor for Graduate Teaching Assistants</b> ’ Fall 2017-Spring 2018 Department of Economics, WMU. <b>Referee and Editorial Board Member</b> Fall 2016 <i>Hilltop Review</i> , WMU.	
<b>PROFESSIONAL DEVELOPMENT WORKSHOPS</b>	<b><i>Academic Branding: Managing Your Online Presence</i></b> October 26, 2018 Office of Faculty Development, WMU. <b><i>Graduate Student Teaching Intensive Program,</i></b> July 9-13,2018 Office of Faculty Development, WMU. <b><i>Responsible conduct for Research,</i></b> Graduate College, WMU. 2016 <b><i>International Graduate Teaching Assistant Training Program.</i></b> 2015	
<b>REFERENCES</b>	Dr. Debasri Mukherjee Professor of Economics, Department of Economics, Western Michigan University <a href="mailto:debasri.mukherjee@wmich.edu">debasri.mukherjee@wmich.edu</a>	Dr. Eskander Alvi Professor of Economics Department of Economics, Western Michigan University <a href="mailto:eskander.alvi@wmich.edu">eskander.alvi@wmich.edu</a>
	Dr. Kevin Lee Assistant Professor of Statistics Department of Statistics, Western Michigan University <a href="mailto:k.lee@wmich.edu">k.lee@wmich.edu</a>	Dr. Yuekai Sun Assistant Professor of Statistics Department of Statistics University of Michigan <a href="mailto:yuekai@umich.edu">yuekai@umich.edu</a>