

## DWEEPOBOTEET BRAHMA

Indian Institute of Technology Jodhpur,

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Jodhpur, Rajasthan 342037, India

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### EMPLOYMENT

**Assistant Professor,**

**July 2021 - present**

Centre for Mathematical and Computational Economics

Indian Institute of Technology, Jodhpur

**Fellow – II,**

**July 2020 – June 2021**

National Institute of Public Finance and Policy

**Associate Fellow,**

**September 2019 – June 2020**

Brookings Institution India Center

### EDUCATION

**Ph.D. in Applied Economics,**

**2019**

Western Michigan University, Kalamazoo MI.

*Dissertation Title: “Essays on the application of Machine Learning in Development Economics”*

*Dissertation Advisor: Prof. Debasri Mukherjee*

**Master of Arts in Economics,**

**2015**

State University of New York at Buffalo.

**Master of Science in Economics,**

**2013**

Calcutta University, Kolkata, India.

*First-Class with specialization in Applied Econometrics.*

**Bachelor of Science in Economics,**

**2011**

Calcutta University, Kolkata, India.

*First-Class Honors with minor in Mathematics.*

### FIELDS OF SPECIALIZATION

**Applied Econometrics (Machine Learning and Causal Inference),**  
Development Economics, Health Economics.

### PUBLICATIONS

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

*Applied Economics*, 2022, Vol 54 (1).

“Infant malnutrition, clean-water access and government interventions in India: A Machine Learning approach towards causal inference” *with Debasri Mukherjee.*

*Applied Economics Letters*, 2021, Vol 28 (16).

“Policy Complementarities in Achieving Universal Immunization Coverage in India” *with Debasri Mukherjee.*

*Economic and Political Weekly*, 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).

## WORK IN PROGRESS

Understanding the Roots of Child Health Inequalities in India using Machine Learning

## BLOGS

["Using machine learning to target neonatal and infant mortality"](#) with Debasri Mukherjee, *Ideas for India*, May, 2022

["A Case for Safe Drinking Water in Boosting Infant Nutrition in India"](#) *Economics that really matters*, November, 2020

["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

### IIT Jodhpur

|                                |                                   |
|--------------------------------|-----------------------------------|
| Machine Learning for Economics | Fall 2021, Spring 2022, Fall 2022 |
| Econometrics                   | Spring 2022                       |

### WMU

#### Instructor,

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|------------------------------|-------------------------------------|
| Principles of Microeconomics | Spring 2018, Fall 2018, Spring 2019 |
|------------------------------|-------------------------------------|

#### Graduate Teaching Assistant,

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|---|-------------------------|
| Principles of Macroeconomics,<br>Econometrics,<br>Exploring Economic Data,<br>Environmental Economics,<br>Economic Development. | Fall 2015 – Summer 2019 |
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## AWARDS AND FELLOWSHIPS

|  |      |
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| <b>Google India Research Award, \$20,000</b> | 2021 |
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| <b>Graduate Research and Creative Scholar Award</b><br>Department of Economics, WMU | 2019 |
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| <b>Outstanding Poster Presentation,</b><br>Research and Creative Activities Poster and Performance Day, WMU. | 2018 |
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| <b>Graduate Teaching Assistantship, WMU.</b>   | 2015- 2019 |
| <b>UB Foundation Fellowship, SUNY at Buffalo.</b>  | 2014-15    |
| <b>Graduate Teaching Assistantship, SUNY at Buffalo.</b>   | 2013-14    |
| <b>The Endowment Foreign Travel Fellowship,</b><br>Calcutta University.  | 2013       |
| <b>Prize for excellence in Economics Essay Competition,</b><br>Alumni Association of Calcutta University Economics Department. | 2012       |

## GRANTS

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| <b>Certification Grant, Graduate Student Association, WMU.</b>     | 2018 |
| <b>Graduate Student Travel Grant, Graduate College, WMU.</b>       | 2017 |
| <b>Conference Travel Grant, Graduate Student Association, WMU.</b> | 2016 |
| <b>Graduate Student Research Grant, Graduate College, WMU.</b>     | 2016 |

## PAPER PRESENTATIONS AND INVITED TALKS

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| <b>2021</b> | International Health Economics Association ( <i>poster</i> )<br>Indian Institute of Technology – Jodhpur  |
| <b>2020</b> | American Economic Association Annual Meeting ( <i>San Diego</i> )<br>Annual Conference of the Indian Econometric Society ( <i>Madurai</i> )<br>Indian Statistical Institute, Delhi<br>Indian Institute of Management, Bangalore ( <i>virtual</i> )<br>Jinhe Center for Economic Research, Xi'an Jiaotong University<br>( <i>virtual</i> ) |
| <b>2019</b> | Indian Statistical Institute, Kolkata, Reserve Bank of India,<br>Brookings Institution India Center, National Council of Applied<br>Economic Research, Shiv Nadar University, Meghnad Desai<br>Academy of Economics, AEA-ASSA Annual Meeting<br>( <i>Atlanta</i> )  |
| <b>2018</b> | Grand Valley State University, ( <i>Invited seminar talk</i> )<br>AEA-ASSA Annual Meeting, ( <i>Philadelphia</i> )  |
| <b>2017</b> | AEA-ASSA Annual Meeting, ( <i>Chicago</i> )   |

## STUDENT SUPERVISION

### M.Tech Projects

Harim Thakur (*ongoing* )  
Nikhil Sharma (*ongoing*)  
Abhijeet Upadhyay (*ongoing*)

## SOFTWARE LANGUAGES

R, STATA, Python, LaTeX.  
English (Fluent), Bengali (Native), Hindi.

## REFeree SERVICE

*Applied Economics Letters,*  
*Journal of Population Economics*  
*PLOS One*

## PROFESSIONAL MEMBERSHIPS

American Economic Association,  
International Association of Health Economics,  
Association of Indian Economic and Financial Studies,  
Indian Econometric Society,  
Global Labor Organization Affiliate,  
R-Ladies, PyLadies.

## PROFESSIONAL SERVICES

Referee for R-ladies diversity scholarship applications 2020  
**Mentor for Graduate Teaching Assistants** Fall 2017-Spring 2018  
Department of Economics, WMU.  
**Referee and Editorial Board Member** Fall 2016  
*Hilltop Review*, WMU.

## PROFESSIONAL DEVELOPMENT WORKSHOPS

*IHEA Early-Career Mentoring Session* July 15, 2021  
*CSWEP Econopalooza* June 15, 2021  
*Summer Institute in Computational Social Science* June 14 – 18, 2021  
*Academic Branding: Managing Your Online Presence* October 26, 2018  
Office of Faculty Development, WMU.  
*Graduate Student Teaching Intensive Program*, July 9-13, 2018  
Office of Faculty Development, WMU.  
*Responsible conduct for Research*, Graduate College, WMU. 2016  
*International Graduate Teaching Assistant Training Program*. 2015

## REFERENCES

Available upon request

Updated July, 2022