

# DEEP MUKHERJEE

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## **Current Affiliation:**

- Associate Professor, Department of Economic Sciences, Indian Institute of Technology Kanpur, December 2019 – till date

## **Education:**

- Ph.D., Agricultural & Resource Economics, University of Connecticut, July 2012
- M.S., Agricultural & Resource Economics, University of Connecticut, May 2009
- M.S., Quantitative Economics, Indian Statistical Institute, June 2004
- B.A. (Honors), Economics, Jadavpur University, July 2002

## **Areas of Interest:**

- Applied Microeconomics, Applied Econometrics, Efficiency and Productivity Analysis, Public Policy, Sustainable Development

## **Employment History:**

- Assistant Professor, Department of Economic Sciences, Indian Institute of Technology Kanpur, May 2017 – December 2019
- Assistant Professor, Department of Humanities and Social Sciences, Indian Institute of Technology Kanpur, June 2014 – May 2017
- Post-doctoral Research Associate, Department of Economics, University of Glasgow, January 2013 – March 2014
- Post-doctoral Fellow, Department of Agricultural & Resource Economics, University of Connecticut, July 2012 – November 2012
- Graduate Assistant, Department of Agricultural & Resource Economics, University of Connecticut, August 2007 – May 2012
- Business Analyst, GENPACT (formerly GE Capital), India, June 2004 – July 2007

## **Journal Articles:**

1. "Efficiency of Indian thermal power plants and suspended particulate matter: Findings across technological assumptions and DEA models." *Studies in Microeconomics*, (2021) Accepted. (With D. Sengupta)
2. "By-production of electricity and particulates: Efficiency of Indian thermal power plants revisited." *International Journal of Energy Sector Management*, Vol. ahead-of-print (2021) (With D. Sengupta)
3. "Productive efficiency and non-performing assets of Indian banks in the post global financial crisis period." *South Asia Economic Journal*, 22 (2021): 186–204. (With K.S. Khati)

4. "Evaluating the performance of Indian domestic banks through the lens of Pareto–Koopmans efficiency." *Global Business Review* (2020): 0972150920970358. (With K.S. Khati)
5. "Drivers of greenhouse gas emissions in the United States: revisiting STIRPAT model." *Environment, Development and Sustainability*, 21 (2019): 3015–3031. (With M.K. Singh)
6. "Assessing the linkage between dairy productivity growth and climatic variability: The case of New York State." *Open Agriculture*, 3 (2018): 658–669. (With A. Ranjan)
7. "Climate change and land use in Southeastern U.S.: Did the "dumb farmer" get it wrong?" *Climate Change Economics*, 7 (2016): 1–35. (With T. Tsvetanov, L. Qi, F.A. Shah, and B.E. Bravo-Ureta)
8. "The good and the bad: Environmental efficiency in northeastern U.S. dairy farming." *Agricultural & Resource Economics Review*, 45 (2016): 22–43. (With E. Njuki and B.E. Bravo-Ureta)
9. "To drill or not to drill? An econometric analysis of US public opinion." *Energy Policy*, 91 (2016): 341–351. (With M.A. Rahman)
10. "Optimal location of centralized biodigesters for small dairy farms: A case study from the United States." *International Journal of Sustainable Energy Planning & Management*, 8 (2015): 3–16. (With R.G. Cromley, F.A. Shah, and B.E. Bravo-Ureta)
11. "Dairy productivity and climatic conditions: Econometric evidence from Southeastern United States." *Australian Journal of Agricultural & Resource Economics*, 57 (2013): 123–140. (With B.E. Bravo-Ureta and A. De Vries)
12. "Public versus private banking services: A case study of bank-customer preferences in southern suburb of Kolkata." *Arthabeekshan (Quarterly Journal of the Bengal Economic Society)* 5 (2006): 78–89. (With P. Sett)

#### **Books:**

1. "Selected Topics in Cross-section and Panel Data Econometrics" (edited volume, forthcoming) Springer
2. "Contemporary Issues in Sustainable Development: The Case of India" (2020) Routledge (Co-editors: T. Chakraborty and S. Saha)

#### **Book Chapters:**

1. "Productive efficiency of agricultural sector in Uttar Pradesh using data envelopment analysis." (2020) In Chakraborty et al. (Ed.), *Contemporary Issues in Sustainable Development: The Case of India*, Routledge (With K.S. Khati and A. Bhandari)
2. "Agricultural productivity in Bihar and its determinants: A district level analysis." (2020) In Chakraborty et al. (Ed.), *Contemporary Issues in Sustainable Development: The Case of India*, Routledge (With A. Sapre and M.K. Singh)

#### **Other Publications:**

1. "Toward sustainable management of black tiger shrimp fishing in West Bengal." Working Paper No. GCP/JU/10/01. Global Change Program, Jadavpur University, 2010.

2. "Application of convolution in individual risk model with non-iid data: A case study." In *Conference Volume of 9<sup>th</sup> Global Conference of Actuaries*, Vol. 2: 209–215, 2007.

### **Select Projects:**

1. "UI-ASSIST: US-India Collaborative for Smart Distribution System with Storage", Sponsor: *U.S. Dept. of Energy & Dept. of Science & Technology, Govt. of India*, 2018–2022.
2. "Customer Demand and Willingness to Pay for HEVs and EVs", Sponsor: *Maruti Suzuki*, 2017–2018.
3. "Evaluation of HDFC Bank's *Gram Samridhhi* project", Role: Principal Investigator, Sponsor: *Shramik Bharti*, 2017–2018.
4. "Socio-economic study on nearby areas of the Panki thermal power station", Role: Principal Investigator, Sponsor: *Uttar Pradesh Rajya Vidyut Utpadan Nigam*, 2015–2016.
5. "Impact of sodic land reclamation on peasant livelihood in Uttar Pradesh", Initiation Grant, Sponsor: *IIT Kanpur*, 2015–2017.

### **Presentation in International Meetings:**

1. "Transgenic varieties and productive efficiency of cotton farmers in Pakistan." Asia Pacific Productivity Conference, Seoul, Republic of Korea, July 2018
2. "Agricultural productivity growth in New England: Will climate change matter?" Joint AAEA & NAREA Conference, Pittsburgh, United States, July 2011
3. "Modeling the impact of weather risk on dairy production: A case study of Florida and Georgia." EWEPA Conference, Verona, Italy, June 2011
4. "Assessing the linkage between dairy productivity growth and weather patterns: A case study of Florida." Asia Pacific Productivity Conference, Taipei, Taiwan, July 2010
5. "A call from the wilderness: Choosing Alaskan oil or wildlife." NAREA Conference, Atlantic City, United States, June 2010, Abstract published in *Agricultural & Resource Economics Review* 39 (2010): 591

### **Student Supervision:**

- PhD thesis (2):
  - Karan Singh Khati, 2014–2022, Title of thesis: *Assessment of Productive Efficiency of Indian Banks through Data Envelopment Analysis*
  - Debarun Sengupta, 2016–2022, Title of thesis: *Three Essays on Economics of Air Pollution*
- MS thesis and project: (1) Gaurav Doshi, 2016-17; (2) Alok Ranjan, 2016-17; (3) Mahendra Kumar Singh, 2016-17; (4) Harshvardhan Singh Rathore, 2016-17; (5) Yash Ladhha, 2017-18; (6) Tanisha Mishra, 2018-19; (7) Shreyas Tiwari, 2018-19.

### **Teaching at IIT Kanpur:**

- Under-graduate level: Microeconomics I (ECO 201A), Econometrics I (ECO 341A), Econometrics II (ECO 342A)

- Post-graduate level: Environmental Economics and Policy (ECO 501A), Managerial Economics and Business Analysis (ECO507A), Production Economics (ECO 741A), Efficiency and Productivity Analysis (ECO 742A)
- e-Masters Program: Power Sector Regulation, Economics, and Management

**Online Course for National Programme on Technology Enhanced Learning (NPTEL):**

- Microeconomics: Theory and Applications
  - Offered: [1] July–October 2018, [2] January–April 2020, [3] January–April 2021, [4] January–April 2022
- Applied Statistics and Econometrics
  - Offered: [1] January–April 2021

**Outreach:**

- Co-organized a workshop titled “Quantitative Approaches to Decision Making” under the Quality Improvement Programme (QIP) run by the All India Council for Technical Education (AICTE), IIT Kanpur, 8<sup>th</sup> March – 13<sup>th</sup> March 2021
- Co-organized AICTE-sponsored QIP titled “Sustainable Development: Policy and Management”, IIT Kanpur, 30<sup>th</sup> November – 5<sup>th</sup> December 2015

**Invited Talks, Guest Lecturing, and Participation as discussant:**

- Participated in the “Stakeholder Consultation Workshop on Million Farmers School in Uttar Pradesh: Evolution, Impact and Way Forward”, organized by *International Food Policy Research Institute and Govt. of Uttar Pradesh*, Lucknow, September 2019
- Taught “Introduction to Economics” as guest faculty at *Rajiv Gandhi Institute of Petroleum Technology*, Amethi, Oct–Nov 2017
- Delivered a lecture on “Introduction to DEA Models” for QIP on *Frontier areas in Econometrics & International Trade*, IIT Kanpur, December 2014

**Miscellaneous Academic Responsibilities:**

- Co-lead of Theme 10: Food Security and Agriculture at IIT Kanpur La Trobe University Research Academy (January 2021 – till date)
- Reviewer Service for Journals:
  - Springer: Journal of Productivity Analysis, Regional Environmental Change, Transportation in Developing Economies, Letters in Spatial and Resource Sciences
  - Sage: Indian Economic Journal, Studies in Microeconomics, International Journal of Rural Management, Sage Open
  - Wiley: Agribusiness
  - De Gruyter: Open Agriculture

**Award & Recognition:**

- Received commendation letter from the Director, IIT Kanpur for excellence in teaching:
  - 2015-16/Semester I for the course ‘Efficiency and Productivity Analysis’

- 2017-18/Semester I for the course 'Production Economics'
- Project "Impact of sodic land reclamation on peasant livelihood in Uttar Pradesh" gained media coverage (A story is published in the Hindi language daily newspaper *Dainik Jagran*, Kanpur edition on 19<sup>th</sup> June, 2017)
- Research paper "To drill or not to drill? An econometric analysis of US public opinion" is highlighted by the Shorenstein Center on Media, Politics and Public Policy at Harvard Kennedy School
- Institute Fellowship, IIT Kanpur, 2014–2017
- Bishop–Carder scholarship, University of Connecticut, 2011
- CESE multidisciplinary summer research scholarship, University of Connecticut, 2008
- Del Favero scholarship, University of Connecticut, 2007
- Silver Medal for securing 1<sup>st</sup> class 2<sup>nd</sup> position in the 1999–2002 batch of Economics (Honors) program of Jadavpur University, 2002