

CURRICULUM VITAE

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ACADEMIC BACKGROUND

- Ph.D. (Economics), Department of Humanities and Social Sciences, IIT Madras, Chennai, India (2018-2021)
- Ph.D. Thesis Title: Essays in Industrial Ecology: An Analysis of the Manufacturing Sector of India
- Broad area of Ph.D.: Industrial Ecology
- Supervisor: Dr. Santosh Kumar Sahu
- M. Phil. (Economics), University of Kalyani, West Bengal, India (2018)
- M. Phil. Thesis: Public Investments In Sewage Treatment Plants In India
- M. Sc. (Economics), University of Kalyani, 1st Class (2nd Rank Holder), West Bengal, India (2015)
- B. Sc. (Economics), Kanchrapara College, University of Kalyani, 1st Class (2nd Rank Holder), West Bengal, India (2013)

RESEARCH INTEREST

- Energy Economics, Resource and Environmental Economics, Industrial Economics, Applied Economics.

JOURNAL PUBLICATIONS

- Sahu, S. K., Manaloor, V., & **Bagchi, P.** (2022). An Empirical Analysis of the Impact of COVID-19 on the Power Sector of India. *Energy RESEARCH LETTERS*, 3(2), 32617. DOI
- **Bagchi, P.**, Sahu, S. K., Kumar, A., & Tan, K. H. (2022). Analysis of carbon productivity for firms in the manufacturing sector of India. *Technological Forecasting and Social Change*, 178, 121606. DOI
- Sahu, S. K., **Bagchi, P.**, Kumar, A., & Tan, K. H. (2021). Technology, Price Instruments and Energy Intensity: a Study of Firms in the Manufacturing Sector of the Indian Economy. *Annals of Operations Research*, 1-21. DOI
- **Bagchi, P.**, & Sahu, S. K. (2020). Energy Intensity, Productivity and Pollution Loads: Empirical Evidence from Manufacturing Sector of India. *Studies in Microeconomics*, 8(2), 194-211. DOI
- **Bagchi, P.**, & S.K. Sahu. "Waste from production: An analysis at the firm level". (R&R)
- **Bagchi, P.**, & S.K.Sahu. "IFDI, OFDI, and divestment: A global level analysis." (Under Review)
- S.K.Sahu, **Bagchi, P.**, Mohapatra, D.P., & Dubey, R.S. "Tax on polluting input or on pollution generated: Policy alternatives" (Submitted)

WORK IN PROGRESS

- The Social Cost of Carbon and the Paris Goal: A Natural Experiment
- Emission Control with Tax and Technology
- Waste, Recycling, and Resource Saving Policy Instruments
- Environmental Regulation, Productivity and Pollution in Indian Manufacturing Firms
- Energy Intensity in the Indian manufacturing sector: A state-level analysis
- Pigou and Porter are Perfect Complement: Evidence from Indian Manufacturing Firms
- Recycling by-products, Minimizing Waste, and Reliability of the System

TEACHING EXPERIENCE

- Guest Faculty, Humanities and Social Sciences, IIT Madras, Chennai (2022-Present)
- Teaching Assistant, Principles of Economics, IIT Madras, Chennai (2018-2021)
- Guest Lecturer. Kanchrapara College. West Bengal (2017-2018)

INVOLVEMENT IN RESEARCH PROJECT

- Statistical Analyst, Impact of MNREGA on Tribal Migration: A Case Study in Jungle Mahal of West Bengal. (2017), Sponsored by NIRD & PR.
- Research Associate, Department of Economics, Sri Krishna College, Bagula, University of Kalyani, Sponsored by ICSSR. (2016- 2017).

PAPER PRESENTED

❖ INTERNATIONAL

- CTIER Conference 2021. 26.05.2021 to 29.05.2021, Webinar, Organized by Ahmedabad University. Technology, Price. Instruments and Energy Intensity: A Study of Firms in Manufacturing Sector of India.
- 14th Annual Conference of Knowledge Forum. 11.10.2019 to 13.10.2019. IIT Madras, Chennai.
- 23rd Biennial Conference of Association of Indian Economic and Financial Studies (AIEFS) conducted by Rochester Institute of Technology. International Conference, 29.07.2019. Xavier Institute of Management, Bhubaneswar. Odisha.
- International Graduate Seminar on Public Policies Impacting State, Market and Societies. 16.03.2017 to 18.03.2017. Tata Institute of Social Science. Hyderabad. Telangana.

❖ NATIONAL

- CTIER Seminar Series. 18.05.2022, Mumbai, Maharashtra.
- 9th MSE Seminar Series. 28.04.22 to 29.04.22, Madras School of Economics, Chennai, Tamil Nadu.
- 10th National Seminar on Industrial Statistics on 20.12.2019, Auditorium of Directorate General of Commercial Intelligence & Statistics, M/o Commerce and Industry, Kolkata.

TRAINING/WORKSHOP PARTICIPATED

- SANDEE-INSEE-CESS Postconference Workshop. Tenth Biennial Conference, INSEE. Hyderabad. Telangana. India.
- GIAN Course. Environmental Economics and Sustainable Development: Theory and Methodology for Evaluation. National Institute of Technology. Surathkal. Karnataka (2018)

AWARD AND FELLOWSHIP/SCHOLARSHIP

- Post-Doctoral Equivalent Fellowship, IIT Madras (2021-2022)
- Half Time Teaching/Research Assistantship (HTRA) from Ministry of Human Resource Development (MHRD) (2018-2021)
- National Eligibility Test (November, 2017)
- Ranked 1st Class 2nd in M.Sc
- Post-Grduate Merit Scholarship for University Rank Holders for PG Programs (2013-2015)
- Ranked 1st Class 2nd in B.Sc
- West Bengal Labor Welfare Board Scholarship for South-Bengal (2010-2011)

REVIEWER

- Studies in Microeconomics
- SN Business and Economics

NEWS

- [Productivity and Emission Control](#) | IITM Tech-talk | 30.05.2022
- IIT Madras, International Researchers, propose solutions to Productivity & Pollution problems of Indian manufacturing firms| [Press Information Bureau](#) | 14.05.2022
- **Annals of Operations Research's Paper:**
- Date: 14th May 2022
 - Media: **The Times of India**
 - Edition: Chennai
 - Page no: 3
 - **Headline: Research on productivity problems**
- Date: 13th May 2022
 - Media: **The Telegraph**
 - **Headline: IIT Madras research team proposes productivity and pollution solutions to manufacturers**
 - URL: <https://www.telegraphindia.com/edugraph/news/iit-madras-research-team-proposes-productivity-and-pollution-solutions-to-manufacturers/cid/1864942>
- Date: 13th May 2022
 - Media: **The Hindu**
 - **Headline: Research suggests regulation to improve energy efficiency in manufacturing sector**
 - URL: <https://www.thehindu.com/news/national/tamil-nadu/research-suggests-regulation-to-improve-energy-efficiency-in-manufacturing-sector/article65410216.ece>
- Date: 14th May 2022
 - Media: **Deccan Chronicle**
 - Edition: Chennai
 - Page no: 3
 - **Headline: IIT-M collaborates on solution to pollution**
- Date: 14th May 2022
 - Media: **DT Next**
 - Edition: Chennai
 - **Headline: IIT-M proposes solutions to productivity & pollution issues**
 - URL: <https://www.dtnext.in/city/2022/05/13/iit-madras-proposes-solutions-for-pollution-problems-of-indian-manufacturing-firms>
- Date: 13th May 2022
 - Media: **Higher Education Digest**
 - **Headline: IIT Madras, International Researchers, Propose Solutions to Productivity & Pollution Problems of Indian Manufacturing Firms**
 - URL: <https://www.highereducationdigest.com/iit-madras-international-researchers-propose-solutions-to-productivity-pollution-problems-of-indian-manufacturing-firms/>
- Date: 13th May 2022
 - Media: **Shiksha**
 - **Headline: IIT Madras, International Researchers, propose solutions to pollution problems of manufacturing firms**

- URL: <https://www.shiksha.com/news/iit-madras-international-researchers-propose-solutions-to-pollution-problems-of-manufacturing-firms-blogId-90603>
- Date: 13th May 2022
 - Media: **Careers360**
 - **Headline: IIT Madras researchers propose solutions for pollution problems of manufacturing firms**
 - URL: <https://news.careers360.com/iit-madras-researchers-propose-solutions-for-pollution-problems-of-manufacturing-firms>
- Date: 13th May 2022
 - Media: **Deccan Herald**
 - **Headline: IIT-M study suggests solutions to manufacturing firms on tackling productivity and pollution**
 - URL: <https://www.deccanherald.com/national/south/iit-m-study-suggests-solutions-to-manufacturing-firms-on-tackling-productivity-and-pollution-1108979.html>
- Date: 13th May 2022
 - Media: **Himumail**
 - **Headline: IIT Madras Find Solution to Pollution and Productivity Problems of Manufacturing Firms in India**
 - URL: <https://himumail.com/business/innovation-achievers/iit-madras-find-solution-to-pollution-and-productivity-problems-of-manufacturing-firms-in-india>
- Date: 13th May 2022
 - Media: **India Education Diary**
 - **Headline: IIT Madras, International Researchers, Propose Solutions To Productivity & Pollution Problems Of Indian Manufacturing Firms**
 - URL: <https://indiaeducationdiary.in/iit-madras-international-researchers-propose-solutions-to-productivity-pollution-problems-of-indian-manufacturing-firms/>
- Date: 13th May 2022
 - Media: **Skill Outlook**
 - **Headline: IIT Madras, International Researchers, propose solutions to Productivity & Pollution problems of Indian manufacturing firms**
 - URL: <https://skilloutlook.com/education/iit-madras-international-researchers-propose-solutions-to-productivity-pollution-problems-of-indian-manufacturing-firms>
- Date: 13th May 2022
 - Media: **Edu Advice**
 - **Headline: IIT Madras, International Researchers, propose solutions to Productivity & Pollution problems of Indian manufacturing firms**
 - URL: <https://eduadvice.in/educational-news-details/iit-madras-international-researchers-propose-solutions-to-productivity-pollution-problems-of-indian-manufacturing-firms/2012>
- Date: 13th May 2022
 - Media: **The Hawk**
 - **Headline: IIT Madras, International Researchers, propose solutions to Productivity & Pollution problems of Indian manufacturing firms**
 - URL: <https://www.thehawk.in/posts/IIT-Madras-International-Researchers-propose-solutions-to-Productivity-and-Pollution-problems-of-Indian-manufacturing-firms/627e45261998ef5bb81f0c6e>

Environmental Regulation on Firm Efficiency and Behavior

- [LinkedIn](#) | IITM | 04.01.2022
- [Instagram](#) | IITM | 04.01.2022

- [The Right Price](#) | **IITM Tech-talk** | 15.12.2021

- Policy reforms help manufacturing sector becomes energy-efficient in last two decades: Study
 - [News of the Day](#) | IITM | 14.10.2020
 - [PDF](#) | EEPC India | 13.10.2020
 - [Newspaper](#) | The Hindu BusinessLine | 12.10.2020

- Productivity vs Pollution: How energy efficient is the Indian manufacturing sector?
 - [IITM Tech-Talk](#) | 28.08.2020
 - [LinkedIn](#) | 31.08.2020