

Dr. SWETA SEN



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CURRENT POSITION

I am an Assistant Professor at Madras School of Economics (MSE), Chennai, India teaching Microeconomics (Basic and Advanced) and Sustainable Development to PG Economics students.

Teaching and Research Interests: Microeconomics (Basic and Advanced Theory); Macroeconomics; Environmental and Resource Economics; Ecological Economics; Econometrics; Development Economics; Spatial Econometrics; Behavioural Economics.

ACADEMIC DETAILS

Degree	Specialisation	University/Board	Year of Degree
PhD	Economics of Coastal Hazards; Thesis title: <i>Cyclonic disturbances in Asia: Long-term forecasting, impacts and responses with special reference to the Indian East Coast</i>	<i>Advanced Technology Development Centre, Indian Institute of Technology Kharagpur</i>	<i>February, 2023</i>
MS by research	Thesis title: <i>Vulnerability and Risk Assessment of Natural Hazards in Puri-Konark Coastal Belt, Odisha</i>	<i>Department of Humanities and Social Sciences, Indian Institute of Technology Kharagpur</i>	<i>November 2016</i>
M.Sc	<i>Economics</i>	<i>University of Calcutta</i>	<i>2013</i>
B.Sc	<i>Economics (Hons.) Statistics(Pass)Mathematics (Pass)</i>	<i>University of Calcutta</i>	<i>2011</i>

SPECIAL PAPERS

Degree	Specialization
<i>M.Sc. in Economics</i>	<i>Applied Econometrics</i> <i>Resource and Environmental Economics</i> <i>International Economics</i>
<i>MS by Research</i>	<i>Research Methodology</i> <i>Applied Multivariate Statistical Modelling</i> <i>Game Theory and Applications</i>
<i>PhD</i>	<i>Manpower Economics</i> <i>Artificial Intelligence</i> <i>Remote Sensing and GIS</i>

PUBLICATION DETAILS

- **Sen, S., & Sahoo, P.** (2024). Carbon Pricing for sustainable transition in India. *World Development Perspectives*, 34, 100586. (Elsevier – IF 1.9) <https://doi.org/10.1016/j.wdp.2024.100586>
- **Sen, S., Nayak, N. C., & Mohanty, W. K.** (2023). Choices between adaptation and coping strategies as responses to cyclonic shocks and their impact on household welfare in villages on the east coast of India. *International Journal of Disaster Risk Reduction*. 94, 103834. (Elsevier – IF 5) <https://doi.org/10.1016/j.ijdr.2023.103834>
- **Sen, S., Nayak, N. C., & Mohanty, W. K.** (2023). Impact of tropical cyclones on sustainable development through loops and cycles: Evidence from select developing countries of Asia. *Empirical Economics*. 65, 2467-2498. (Springer – IF 3.2) <https://doi.org/10.1007/s00181-023-02431-9>
- **Sen, S., Nayak, N. C., & Mohanty, W. K.** (2022). Estimating household vulnerability to tropical cyclones: An investigation of tropical cyclone shocks in coastal villages of eastern India. *International Journal of Disaster Risk Reduction*, 83, 103404. (Elsevier – IF 5) <https://doi.org/10.1016/j.ijdr.2022.103404>
- **Sen, S., Nayak, N. C., Mohanty, W. K., & Keshri, C. K.** (2023). Vulnerability and risk perceptions of hydrometeorological disasters: a study of a coastal district of Odisha, India. *GeoJournal*, 88(1), 711-731. (Springer – IF 2.7) <https://doi.org/10.1007/s10708-022-10637-0>
- **Sen, S., Nayak, N. C., & Mohanty, W. K.** (2021). Long-term forecasting of tropical cyclones over Bay of Bengal using linear and non-linear statistical models. *GeoJournal*, 88, 85-107. (Springer – IF 2.7) <https://doi.org/10.1007/s10708-021-10543-x>
- **Nayak, N.C., Mahakud, J., Mahalik, M.K., Jenamani, M., Samal, A., Sen, S., Mohanty, A.R.** (2024). What determines financial inclusion? a household-level investigation in rural Odisha,

India. *Journal of Social and Economic Development* (Springer – IF 1.1)
<https://doi.org/10.1007/s40847-023-00302-8>

- Sangwan, S., Nayak, N.C., Sen, S., & Sangwan, V., (2023). Does Firm Size Affect Client Targeting? An Investigation over the Clients of the Indian Microfinance Institutions. *Humanities & Social Sciences Communications*, 10, 240. (Nature – IF 3.5)
<https://doi.org/10.1057/s41599-023-01728-5>
- Chatterjee, D., Sen, S., Gupta, S., & Verma, R. S. (2021). A profile of body composition and obesity related gene polymorphism among eastern and north eastern populations of India. *Meta Gene*, 31, 100984. (Elsevier) <https://doi.org/10.1016/j.mgene.2021.100984>

CONFERENCE AND OTHER PUBLICATIONS

- Presented paper at the *TIFAC-IIASA International Conference - Systems Analysis for Enabling Integrated Policy Making 2022* titled “Choices in response to tropical cyclone shocks and their impact on household welfare: Evidences from eastern coast of India”
- Presented paper at *The 19th World Congress of the International Economic Association 2021 Conference* titled "Tropical cyclone's impact on income inequality, health and human capital accumulation of a developing country: An empirical investigation"
- Presented paper at the *American Geophysical Union AGU Fall Meeting 2020 Conference* titled “Tropical Cyclones, Climate Change and Income Inequality nexus: An Empirical Investigation of 10 most vulnerable Asian countries” Final paper no: GC054-0006
- Presented paper at the *ICRC-CORDEX 2023* titled “Forecasting distribution of cyclonic disturbances over Bay of Bengal till 2050”
- Newspaper article in The Indian Express with Prof. Pravakar Sahoo (July 6th, 2023).
https://indianexpress.com/article/opinion/columns/create-opportunities-for-labour-force-and-new-entrants-by-improving-productivity-8778270/?fbclid=IwAR1OobsVU8W7HMrMvCASimxodg5b_t5dCW5Vg5HduUjySxlgOzof0qNljQU

EXPERIENCE (TEACHING AND RESEARCH)

- **Assistant Professor in Madras School of Economics (MSE), Chennai** teaching **Microeconomics-I and II and Sustainable Development to Post-Graduate students** (4 credit courses to 120 students approx.) from July, 2023 to present.
- **Senior Research Analyst in the Institute of Economic Growth (IEG), New Delhi** in a project “Knowledge Partner during India’s G-20 Presidency” from January, 2023 to July, 2023.
- **Junior Research Fellow (JRF) in project funded by MHRD, Govt. of India** funded project for 2.5 years from July, 2014 to December, 2016. Project Title: “Historical evidence, myth and geophysical modelling to assess the tectonic movement and risks associated with Odisha coastal “Heritage” belt (HPM)” undertaken in the Department of Geology and Geophysics of *IIT Kgp*.

- **Involved in data analysis and report writing of several Institute Projects in IIT Kharagpur** like, *Assessment of the Convergence Activities under Mahatma Gandhi NREGA in Odisha, Financial Inclusion in Odisha, Vulnerability assessment of COVID-19 on Food Security etc.*
- Pursued a **group project** on “Outcomes of Elementary Education in India” Supervised by Prof. Rabindranath Mukhopadhyay as a university curriculum in 2012.

AWARDS AND MAJOR TRAINING/WORKSHOPS

- Qualified **UGC-NET in Economics**
- Awarded **Berkner Fellowship** in American Geophysical Union, AGU Fall Meeting 2020
- 18th **SANDEE Summer School on Environmental and Resource Economics, 2024** at **Asian Institute of Technology, Thailand** from 29th April – 14th May, 2024
- Workshop on **Geo-Statistical Methods for Economic Analysis (GSMEA)** organised by **IGIDR, Mumbai**
- Have been awarded *Certificate* in research related workshops and courses:
 - **IGx-CC: Inclusive Growth: Climate Change – IMFx** in edX
 - Frontier areas in International Trade and **Econometrics** – QIP course in IIT Kanpur
 - **IGC Delhi Summer School in Development Economics**
 - **ArcGIS workshop** – IIT Kharagpur
 - Workshop on **Behavioural Economics and Nudging** organised by the Centre for Behavioral Economics, Gokhale Institute of Politics and Economics, Pune
 - Global Online Training Demystifying Data on **Climate Change and the Sustainable Development Goals** organised by Centre for Science and Environment, New Delhi

POSITIONS OF RESPONSIBILITY

- **Member of Academic Committee** – for Masters in Economics – in Madras School of Economics, Chennai (Present)
- **Teaching Assistantship** for B.Tech and Masters students in Economics in Department of Humanities and Social Sciences, IIT Kharagpur
- **Women Research Scholar’s Representative** in Advanced Technology Development Centre, IIT Kharagpur for 2021-2022
- **Research Scholar’s Representative** for Sports in Advanced Technology Development Centre, IIT Kharagpur for 2019-21

DISSERTATION SUPERVISION (MASTERS)

1. Ms Kashish Bhardwaj on ‘Analysing the emissions gap on the road to net-zero goals in selected Indian sectors.’
2. Mr Siddhant Rawat on ‘How sensitive are labour markets to Heat? Evidences from India.’