

SUVAJIT BANERJEE

SUMMARY

Dr. Suvajit Banerjee is a specialist macroeconomic modeler and analyst. He is an Climate and Energy Economist by training with five years of post-PhD experience dedicated to impactful, policy-oriented research. His expertise lies in critical areas, including shaping the *Emission Trajectories toward Net Zero*, addressing the *Carbon Border Adjustment Mechanism (CBAM)*, developing the *Climate Change Adaptation Strategies*, and exploring the *Energy System Dynamism*.

Dr. Banerjee excels in advanced methodologies such as *Computable General Equilibrium (CGE)* modeling, *Input-Output Analysis (IOA)*, *Linear & Non-Linear Programming (LP & NLP)*.

His innovative approach has earned him the prestigious *2023 Leontief Memorial Prize*, the pinnacle of recognition for emerging scholars in IOA and modeling, awarded by the esteemed *International Input-Output Association (IIOA)*.

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Academic Profiles

➤ [ORCID](#); [Google Scholar](#); [SCOPUS](#)

Social Profiles [LinkedIn](#); [ResearchGate](#)

RESEARCH EXPERIENCE

National Council of Applied Economic Research (NCAER)

Permanent Position

FELLOW, Research Vertical: *Computable General Equilibrium Modelling and Policy Analysis*

July 2024 to present

On-Going Projects

Role / Funder

Optimal Design of the Federative Emission Trading System in India

CGE Modeller / World Bank

The Economy-Wide Implications of Low-Carbon Electricity and Transportation

CGE Modeller / Bezos Earth Fund.

Completed Projects

Macroeconomic implications of India's energy transition pathway

CGE Modeller / International Sustainable Energy Foundation (ISEF)

Planning for Economic Recovery of South Asia from COVID-19 Strengthening General Equilibrium Mode

CGE Modeller / Asian Development Bank (ADB)

Implication of Arctic Ice melting on the Indian Economy

CGE Modeller / Institute for Governance & Sustainable Development (IGSD)

Infinite Sum Modeling LLC

Remote Position

Climate Change Economics

Research Advisor, Aug 2022 to Jul 2024

Input-Output Analysis (IOA) and CGE modeling-based critical issues

Research Associate, Oct 2020 to Aug 2022

CONSULTANCY EXPERIENCE

Opportunities for Climate-Resilient Planning and Budgeting, Operational Agility & Building Synergy

Independent Consultant, International Institute for Environment and Development (IIED)

Feb 2021 to July 2021

EDUCATION

Ph.D. in Economics, Department of Economics and Politics, Vidya Bhavana, Visva Bharati University

Santiniketan, West Bengal

Nov 2016 to Apr 2022

- Thesis Title: *International Trade under Climate Change: An Indian Perspective*

SKILLS***Methodologies:***

Dynamic Recursive Computable General Equilibrium (CGE) Modelling; Static and Dynamic Input-Output Analysis (IOA), Index and Structural Decomposition, Linear & Non-Linear Programming and Optimization, Complex Network Analysis (CNA).

Databases Utilized:

WIOD, ADB-MRIO, OECD-ICIO, EXIOBASE, Supply and Use Tables (SUTs) of MoSPI, GTAP, IFPRI, Energy Statistics of IEA

PUBLICATIONS***Peer-Reviewed Journal Articles***

- [Exploring the NDC-misspecification Margins due to the Trade-induced Spillover and Feedback Effects for Top-Three Emitters](#) Margin: The Journal of Applied Economic Research, 2025
- [Bolstering critical minerals trade between India and other MSP countries: A gravity model evaluation](#) Resource Policy, 2025
- [Examining the India-Middle East-Europe Economic Corridor \(IMEC\) as a collaborative infrastructure for transcontinental policymaking: an ICIO-LP analysis](#) Asia Europe Journal, 2024
- [Exploring the relevance of crude oil prices and installed generation capacity in prognosticating the NIFTY Energy Index](#) Millennial Asia, 2022
- [Emission-decoupling accounting framework of the Environmental Kuznets Curve \(EKC\) for India with structurally decomposed production and consumption-based drivers](#) Management of Environmental Quality, 2022
- [Is there any Dichotomy between India's new FTA strategy and its Trade policy?](#) Economic and Political Weekly, 2022
- [Scrutiny of income related drivers of energy poverty: A global perspective](#) Energy Policy, 2021
- [Searching appropriate system boundary for accounting India's emission inventory for the responsibility to reduce carbon emissions](#) Journal of Environmental Management, 2021
- [Conjugation of Border and Domestic Carbon Adjustment and Implications under Production and Consumption based Accounting of India's National Emission Inventory: A Recursive Dynamic CGE Analysis](#) Structural Change and Economic Dynamics, 2021
- [Carbon adjustment in a consumption-based emission inventory accounting: a CGE analysis and implications for a developing country](#) Environmental Science and Pollution Research, 2021
- [Investigating India's pollution-intensive 'dirty' trade specialisation: analysis with 'revealed symmetric comparative advantage' index](#) Environmental Science and Pollution Research, 2021

<u>Addressing the carbon emissions embodied in India's bilateral trade with two eminent annex-II parties: with input-output and spatial decomposition analysis</u>	Environment Development and Sustainability, 2020
<u>Do emissions implied in net export validate the pollution haven conjecture? Analysis of G7 and BRICS countries</u>	International Journal of Sustainable Economy, 2020
<u>Calibrating the impacts of regional trade integration and renewable energy transition on the sustainability of international inbound tourism demand in South Asia</u>	Sustainability, 2020
<u>Consumption of liquefied petroleum gas and the EKC hypothesis in South Asia: evidence from cross-sectionally dependent heterogeneous panel data with structural breaks</u>	Energy Ecology and Environment, 2020
<u>Carbon emissions embodied in India-United Kingdom trade: a case study on north-south debate</u>	Foreign Trade Review, 2020
<u>Addressing the drivers of carbon emissions embodied in Indian exports: an index decomposition analysis</u>	Foreign Trade Review, 2019

Other Important Research

<i>The Thawing Backbone of Asia: Economy-wide Risks and Resilience Pathways for India from HKH Glacier Retreat</i>	<i>Asian Development Bank (ADB) Working Paper</i>
<i>Use of Computable General Equilibrium Modelling for Energy Policy Analysis</i>	Book Chapter, <i>Energy Crisis in Indian Sub-continent: Some Emerging Issues</i> , Routledge, 2025
<u>Desalination of ocean water: How far does it contribute to the blue economy?</u>	Book Chapter, <i>The Blue Economy: An Asian Perspective</i> . Springer Nature, 2022
<u>Reinvigorating Green Bond as an Alternative Energy Investment amidst Foreseeable Funding Crisis due to the Great Lockdown</u>	Conference Proceedings, <i>Doctoral Symposium 2020</i> , IIM-Kozhikode

Op-Eds

<u>Why Bengal, Odisha should create an eastern symphony</u>	<i>Statesman</i> , Jun 4, 2025
<u>How India could counter the CBAM</u>	<i>Hindu</i> , Nov 20, 2024
<u>How to counter EU's carbon border adjustment mechanism at the COPs</u>	<i>Sunday Guardian</i> , Nov 17, 2024

Under Review Research

<i>Quantifying Logistics Cost for South Asia and Policy Message for the Region</i>	Book Chapter, <i>The Oxford Handbook of International Economics for Asia and the Global Economy</i> , Ed. Rajat Acharyya, Sugata Marjit
<i>Nearing National Boundaries and Narrowing Gender Divides: Addressing Female Diaspora and Development for Europe and Central Asia (ECA)</i>	Under Review

Schumpeterian Dynamics and Inclusive Economic Resilience: Digitalization-Driven Recovery in SAARC and ASEAN Economies Under Review

Compliance Without Exclusion: Modelling the Sustainability-Competitiveness Trade-offs for Asian Garment Exporters Under Review

Reimagining Public Employment Program in A Climate Risk-Indexed Planning & Budgeting Framework for Adaptive Social Protection in India Under Review

INVITED LECTURES

Invited Resource Person for Input-Output Training workshop for Maharashtra State government officials on the newly constructed Maharashtra Supply Use Table at **Gokhale Institute of Politics and Economics (GIPE)**, Pune, India 16-20 Oct 2023

Invited Resource Person for Online methodology training workshop on the *Application of Input-Output Analysis in Economics Research* for the masters and PhD students of the **Indian Institute of Foreign Trade (IIFT)**. 21-29 Sep 2021

AWARDS

Winner of **Leontief Memorial Prize of 2023**, In memory of Wassily W. Leontief, Nobel Laureate in Economic Sciences of 1973, The *International Input-Output Association (IIOA)* acknowledges this highest title for a young researcher (below 40 years' category) in the area of IOA and Modelling. Since 2000, the prize has been awarded to an Indian for the first time.

Winner of **Travel Grant** for attending the 29th *International Input-Output Association (IIOA)* Conference in Alghero, Italy in June 2023 worth USD2500.

Best Paper Award at the 6th IIFT Conference on *Empirical Issues in International Trade & Finance* (eiftf) 2018 at Indian Institute of Foreign Trade, New Delhi in December 2018.

UGC-NET 2015 Qualified and WB-SET 2015 Qualified.

Received the **1st in the 1st Class Merit Certificate** from the Hon'ble Governor of West Bengal (University Chancellor) on the 20th Convocation of the University of Kalyani in 2009.

PRESENTATION *International Conferences*

20th East Asia Economic Association (EAEA) Conference, ADB Session on Glacial Melting, Manila, Philippines on 8-9 November 2025.

29th International Input-Output Association Conference and 11th Edition of the International School of the Input-Output Analysis in Alghero, Sardinia, Italy from 25-30 June 2023.

30th Annual Conference on Contemporary Issues on Development Economics at Jadavpur University, Kolkata on 27-29 December 2022.

2nd Biennial Conference on Development at Indira Gandhi Institute of Development Research (IGIDR), Mumbai on 21-23 December 2022.

Doctoral Symposium 2020 at the Indian Institute of Management Kozhikode (IIM-K), (Online) on 10-11 December 2020.

GTAP 23rd Annual Conference on Global Economic Analysis at Center for Global Trade Analysis, Purdue University, USA, (Online) on 17-19 June 2020.

3rd International Conference on Economics and Finance at Nepal Rashtra Bank, Kathmandu, Nepal on 28-29 February 2020.

5th SANEM Annual Economists Conference (SAEC) at South Asia Network on Economic Modelling (SANEM), Dhaka, Bangladesh on 02-03 February 2020.

3rd International Conference on Issues in Economic Theory and Policy at Economics Department, Presidency University, Kolkata on 26-27 December 2019.

6th IIFT Conference on Empirical Issues in International Trade & Finance at Indian Institute of Foreign Trade, New Delhi on 13-14 December 2018.

Conversations on Research (CoRe): IGIDR PhD Colloquium at Indira Gandhi Institute of Development Research, Mumbai on 13-16 November 2018.

6th International Conference on WTO, Trade and Agriculture at Centre for WTO Studies, Indian Institute of Foreign Trade, New Delhi on 11-12 October 2018.

28th Annual Conference on Contemporary Issues in Development Economics at Department of Economics, Jadavpur University, Kolkata on 21-22 December 2017.

National Conferences

One Day Research Scholar Workshop on Economics at the Department of Economics, University of Kalyani, Kalyani, West Bengal on 28 February 2019.

2nd Research Scholars' Workshop at the Department of Economics and Politics, Visva Bharati, Bolpur, West Bengal on 16 March 2018.

MEMBERSHIP

International Input-Output Analysis (IIOA)
