

SIDDHARTHA CHATTOPADHYAY

Associate Professor

Department of Humanities and Social Sciences

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Date of Birth:

January 6, 1979

Nationality:

Indian

Languages Known:

Bengali (native), English, Hindi

Marital Status:

Married with Two Children

Education:

University at Albany, State University of New York

Ph.D. in Economics, 2011

Dissertation: Monetary Policy and New-Keynesian Macroeconomics

University at Albany, State University of New York

M.A. in Economics, 2008

Delhi School of Economics, University of Delhi

M.A. in Economics, 2002

University of Calcutta

B.Sc. in Economics, 2000

Current Position:

Associate Professor at Department of Humanities and Social Sciences, IIT Kharagpur, from June 19, 2023

Previous Positions Held:

- Assistant Professor at Department of Humanities and Social Sciences, IIT Kharagpur, from August 5, 2014 to June 18, 2023
- Assistant Professor on Tenure Track at Department of Humanities and Social Sciences, IIT Kharagpur, from July 30, 2013 to August 4, 2014
- Visiting faculty at Vinod Gupta School of Management, IIT Kharagpur, from July 18, 2011 to July 29, 2013

Research Interests:

Monetary Economics, and Applied Econometrics

Teaching Interests:

Macroeconomics, International Finance, Banking Theory and Practice, and Econometrics

Publications:***Refereed Journal: Economics***

1. Taylor-Rule Exit Policies for the Zero Lower Bound (with Betty C. Daniel), *International Journal of Central Banking*, 2018, 14(5), 1-53, <https://www.ijcb.org/journal/ijcb18q4a1.pdf>, ABDC ranking: A, Scimago Ranking: Q1, Impact Factor: 1.291
2. Forward Guidance and Quantitative Easing at the Zero Lower Bound, *Economics Letters*, 2020, 197, DOI: [10.1016/j.econlet.2020.109609](https://doi.org/10.1016/j.econlet.2020.109609), ABDC ranking: A, Scimago ranking: Q1, Impact Factor: 1.469 (source: Journal website)
3. Taylor Rule Implementation of the Optimal Policy at the Zero Lower bound: Does the Cost Channel Matter?" (with Taniya Ghosh), *Economic Modelling*, 2020, 89, 351-66, DOI: [10.1016/j.econmod.2019.10.032](https://doi.org/10.1016/j.econmod.2019.10.032), ABDC ranking: A, Scimago ranking: Q1, Impact Factor: 3.875 (source: Journal website)

4. Determinants of Service Trade: How Information and Communication Technology-based Services are Different? (with Arundhati Sinha Roy and Anwesha Aditya), *The Journal of International Trade & Economic Development*, 2022, [10.1080/09638199.2022.2160786](https://doi.org/10.1080/09638199.2022.2160786), ABDC ranking: B, Scimago ranking Q1, Impact Factor: 2.518 (source: Journal website)
5. Epidemiology of Inflation Expectations and Internet Search- An Analysis for India (with Saakshi and Sohini Sahu), *Journal of Economic Interaction and Coordination*, 2019, DOI: [10.1007/s11403-019-00255-4](https://doi.org/10.1007/s11403-019-00255-4), ABDC ranking: B, Scimago ranking Q2, Impact Factor: 1.325 (source: Journal website)
6. Inflation Expectations of Households in India: Role of Oil Prices, Economic Policy Uncertainty, and Spillover of Global Financial Uncertainty, (with Taniya Ghosh and Sohini Sahu), *Bulletin of Economic Research*, 2020, [10.1111/boer.12244](https://doi.org/10.1111/boer.12244), ABDC ranking: B, Scimago ranking: Q3, Impact Factor: 0.619 (source: Journal website)
7. Liquidity Trap and the Conditional Policy Commitment: An Analysis under Adaptive Learning, *South Asian Journal of Macroeconomics and Public Finance*, 2(1), 1-32, 2013, DOI: [10.1177/2277978713482201](https://doi.org/10.1177/2277978713482201), ABDC ranking: C, Scimago ranking Q3, Cite score: 0.70 (source: Journal website)
8. Estimation of Unobserved Inflation Expectations in India using State-Space Model (with Saakshi and Sohini Sahu), *Theoretical Economics Letters*, 9(5), 1480-88, 2019, DOI: [10.4236/tel.2019.95095](https://doi.org/10.4236/tel.2019.95095), Impact Factor: 1.19 (source: Journal website)
9. A Simple Model of Currency Notes Withdrawal (with Sohini Sahu), *Theoretical Economics Letters*, 8(14), 3196-3202, 2018, DOI: [10.4236/tel.2018.814198](https://doi.org/10.4236/tel.2018.814198), Impact Factor: 1.19 (source: Journal website)
10. An Algorithm for Solving Simple Sticky Information New Keynesian Model, (with Manasi Agrawal), *Trade and Development Review*, 8(2), 120-37, 2015

Refereed Journal: Interdisciplinary

1. Using Night Time Lights to Find Regional Inequality in India and Its Relationship with Economic Development (with Abhishek Singhal, Sohini Sahu, Abhijit Mukherjee, Soumendra N. Bhanja), *PLoS ONE*, 2020, 15(11), DOI: [10.1371/journal.pone.0241907](https://doi.org/10.1371/journal.pone.0241907), Scimago ranking: Q1 (source: Scimago), SJR: 0.89 (source: Scimago)

2. Achieving sustainable development goal for clean water in India: influence of natural and anthropogenic factors on groundwater microbial pollution (with Srimanti Duttagupta, Abhijit Mukherjee, Soumendra Nath Bhanja, Kousik Das, Swagata Chakraborty, Debapriya Mondal), *Environmental Management*, 2020, 66, 742-55, DOI: [10.1007/s00267-020-01358-6](https://doi.org/10.1007/s00267-020-01358-6), Scimago ranking: Q1, Impact Factor: 3.64 (source: Journal website)
3. Impact of Sanitation and Socio-Economy on Groundwater Fecal Pollution and Human Health towards Achieving Sustainable Development Goals Across India from Ground-Observations and Satellite-Derived Nightlight (with Abhijit Mukherjee, Srimanti Duttagupta, Soumendra Nath Bhanja, Animesh Bhattachayra, Swagata Chakraborty, Soumyajit Sarkar, Tilottoma Ghosh, Jayanta Bhattacharya, Sohini Sahu), *Scientific Reports*, 2019, 9 (Nature), DOI: [10.1038/s41598-019-50875-w](https://doi.org/10.1038/s41598-019-50875-w), Scimago ranking: Q1, Impact Factor: 4.997 (source: Journal website)
4. Groundwater Rejuvenation in Parts of India Influenced by Water Policy Changes Implementation (with Soumendra N. Bhanja, Abhijit Mukherjee, Matthew Rodell, Yoshihide Wada, Isabella Veliconga, Kishore Pangaluru and James Famiglietti), *Scientific Reports*, 7 (Nature), August 2017, DOI: [10.1038/s41598-017-07058-2](https://doi.org/10.1038/s41598-017-07058-2), Scimago ranking: Q1, Impact Factor: 4.997 (source: Journal website)
5. Three Decades of Depth-Dependent Groundwater Response to Climate Variability and Human Regime in the Transboundary Indus-Ganges-Brahmaputra-Meghna Mega River Basin Aquifers, (with Pragnaditya Malakar, Abhijit Mukherjee, Soumendra N. Bhanja, Auroop R. Ganguly, Ranjan Kumar Ray, Anwar Zahid, Sudeshna Sarkar, and Dipankar Saha), *Advances in Water Resources*, 129, January 2021, DOI: [10.1016/j.advwatres.2021.103856](https://doi.org/10.1016/j.advwatres.2021.103856), Scimago ranking: Q1, Impact Factor: 5.361 (source: Journal website)
6. Groundwater Faecal Pollution Observation in Parts of Indo-Ganges–Brahmaputra River Basin from *in-situ* Measurements and Satellite-Based Observations (with Srimanti Duttagupta, Animesh Bhattacharya, Abhijit Mukherjee, Soumendranath Bhanja, Soumyajit Sarkar, Pragnaditya Malakar and Jayanta Bhattacharya), *Journal of Earth System Science*, 2019, 128: 44, DOI: [10.1007/s12040-019-1087-8](https://doi.org/10.1007/s12040-019-1087-8), Scimago ranking: Q2, Impact Factor: 1.912 (source: Journal website)

7. Influence of hydrostratigraphy on the distribution of groundwater arsenic in the transboundary Ganges River aquifer system, India and Bangladesh (with Madhumita Chakraborty, Abhijit Mukherjee, Kazi Matin Ahmed, Alan Fryar, Animesh Bhattacharya, Anwar Zahid, Raja Das), *The Geological Society of America Bulletin*, 2022, [10.1130/B36068.1](https://doi.org/10.1130/B36068.1), Scimago ranking: Q1, Impact Factor: 5.41 (source: Journal website)

Book Chapters:

1. *The Neo-Fisherianism to Escape the ZLB* (2021) in William A. Barnett and Bruno S. Sergi (ed.), *Environmental, Social and Governance Perspectives on Economic Development in Asia*, 29 A, Emerald Publishing Limited, Bingley, DOI: [10.1108/S1571-03862021000029A028](https://doi.org/10.1108/S1571-03862021000029A028)
2. *Contemporary Macroeconomic Events of India: Some Analytical Discussions* (2005), with S. Marjit and P. K. Das in S. Marjit (ed.), *India Macroeconomics Annual – 2003-04*, Centre for Studies in Social Sciences, Calcutta, URL: https://www.cssscal.org/pdf/ima/ima_03-04_contents.pdf
3. *Issues in GDP Growth, Investment and Regional Disparity: Contemporary Macroeconomic Events in India* (2006), with S. Marjit, P. K. Das, S. Kar and R. Bhattacharya in S. Marjit (ed.), *India Macroeconomics Annual – 2004-2005*, Centre for Studies in Social Sciences, Calcutta, URL: https://www.cssscal.org/pdf/ima/ima_04-05_contents.pdf

Other Publications:

1. *Liquidity Trap in a Simple AD-AS Model* (2015), *Global Economic Crisis: Impact, Lessons and Recovery*, Proceedings of UGC Sponsored National Seminar, Department of Economics, Ramakrishna Mission Vidyamandira, Belur Math, 78-88.
2. Money and Capital Market, *Quarterly Review of the Economy*, July, 2012, October, 2012 and January 2013, National Council of Applied Economic Research, New Delhi.

Working Papers:

- Revisiting Mankiw-Romer-Weil Results using an Instrumental Variable Approach (with Arpan Chakraborty, Sohini Sahu)

- Optimal Mixture of Fiscal Policy and Monetary Policy with Long-term Debt through the Lens of Behavioural Macroeconomics (with Arpan Chakraborty, Sohini Sahu)
- Compensating Variation and the Sentiment of Indian Households (with Nithin M.)
- The Historical Determinants of Inequality among Indian Districts from the Outer Space (with Christopher Kuruvilla Mathen)
- Inequality and the Incidence of Crime In Indian Districts (with Christopher Kuruvilla Mathen)
- Socio-Economic Determinants of Pandemic (with Maithilee Mukherjee)
- Institutions, Innovations and the Romerian Growth: The Missing Link Between the Theory and the Empirics (with Muhammed Najeeb K. K. and Anwesha Aditya)

Teaching Experience:

- **Vinod Gupta School of Management (VGSOM), IIT Kharagpur:**
 - Economics for Management
 - Econometric Modelling
- **Department of Humanities and Social Sciences, IIT Kharagpur:**
 - Economics of Growth
 - Monetary Economics
 - Econometric Analysis II (Theory, and Laboratory)
 - Applied Econometrics (Theory, and Laboratory)
 - Statistics for Economics
 - Banking Theory and Practice
 - Mathematical Economics
 - Managerial Economics
 - International Business
 - General Equilibrium and Welfare Economics
- **University at Albany, State University of New York:**
 - Intermediate Macroeconomics
 - Economics of Money and Banking

Projects and Consultancy:

- Analyzing the Determinants of Pandemic: A Socio-Economic Cross-Country Study, Research Project, PI, The Cisco Research Center University Funding Committee, USA.
- Information Technology, Service Trade and Economic Growth: New Evidences from the Emerging Economies, Major Project, COPI, IMPRESS, ICSSR, India
- Economic Growth, Inequality and Poverty Alleviations In India: The Implications of Nightlights, Major Project, PI, ICSSR, India
- Income Inequality, Development and Kuznets Curve: A Second Generation Panel Cointegration Analysis, Minor Project, COPI, ICSSR, India
- Divisia Aggregate: A New Measure of Money Supply, PI, ISIRD, IIT Kharagpur
- Consultant, National Council of Applied Economic Research (NCAER), Delhi, 2012 - 2013

PhD Thesis Supervised:

- Sasikanta Tripathy, Joint Supervisor, VGSOM, IIT Kharagpur, Degree Awarded, 2014-2015
- Muhammed Najeeb K. K., Supervisor, Department of Humanities and Social Sciences, IIT Kharagpur, Degree Awarded, 2020-2021

Awards and Honors:

- Excellence in Research Award for Third Year Paper, University at Albany, State University of New York, 2010
- Pong Lee Award for Excellence in Teaching, University at Albany, State University of New York, 2010
- Special Fellowship for Final Year Dissertation, University at Albany, State University of New York, 2010
- Special Performance Fellowship, University at Albany, State University of New York, 2007
- Graduate Fellowship, University at Albany, State University of New York, 2006-2010

Editorial Referee:

- Journal of Asian Economics

- International Journal of Forecasting
- Indian Economic Review
- Journal of Economic and Administrative Sciences
- Journal of Quantitative Economics
- Trade and Development Review
- Sage Open Journal
- Foreign Trade Review
- International Journal of Emerging Markets
- Arthaniti – Journal of Economic Theory and Practice

Other Academic Activities:

- Associate Editor of “Arthaniti-Journal of economic Theory and Policy”
- External Expert of Macroeconomics and Allied Theme for Curriculum Revision - 2023, Indira Gandhi Institute of Development Research, Mumbai
- Visiting Faculty, IIM Kashipur, 2013

Invited Lectures:

- Departmental Seminar at Humanities and Social Sciences, IIT Delhi, 2023
- International Conference on Issues in International Trade and Open Economy Macroeconomics, The Eastern Regional Centre, ICSSR, 2019
- Indian Institute of Management Calcutta, 2019
- Reserve Bank of India, Kolkata, 2019
- Indian Institute of Foreign Trade, Kolkata, 2019
- Flame University, Pune, 2019
- Strategic Research Unit, Reserve Bank of India, Mumbai, 2019
- Workshop on DSGE Modelling for Emerging Economies: IGIDR, Mumbai, 2018
- Workshop on Research Methodology in Anthropology, Department of Anthropology, University of Calcutta, 2018
- India Macroeconomics Working Group, Economic Research Unit, Indian Statistical Institute, Delhi, 2014, 2017

- Department of Management, University of Essex, 2016
- Department of Management, University of Leeds, 2016
- National Seminar on Problems and Prospects of Indian Economy in the Current Global Scenario, Department of Economics, Sambalpur University, Odisha, 2016.
- International Seminar on Economic Theory and its Application, Visva Bharati University, Department of Economics and Politics, 2016
- India Public Finance and Policy Report, Centre for Studies in Social Sciences, Calcutta, 2015
- UGC Sponsored National Seminar on Global Economic Crisis: Impact, Lessons and Recovery, Ramkrishna Mission Vidyamandira, Belurmath, 2015
- Sampling Techniques, Short term Course on Educational Research, CET, IIT Kharagpur, 2015
- Basics of Time Series Modeling, Short Term Course, Commodity Derivatives and Risk Management, March, 2015.
- Time Series Modeling, Short Term Course, Commodity Derivatives and Risk Management, November, 2014.
- India Macroeconomics Working Group, Economic Research Unit, Indian Statistical Institute, Delhi, 2014
- XXI Annual Conference, Jadavpur University, 2011

Presentations:

- Economic Research Unit, ISI Calcutta, 2019
- 48th Money, Macro and Finance Conference, University of Bath, UK, 2016
- University of Calcutta, Department of Economics, 2016
- IIT Kanpur, Department of HSS, 2015
- Indira Gandhi Institute of Development Research (IGIDR), Mumbai, 2014
- National Institute of Public Finance and Policy (NIPFP), Delhi, 2014
- Institute of Development Studies, Kolkata, 2014
- Department of Economics, Vidyasagar University, 2014
- Economic Research Unit, Indian Statistical Institute, Delhi, 2012

- National Council of Applied Economic Research (NCAER), Delhi, 2012, 2019
- Department of Economics, Delhi School of Economics, 2010
- Centre for Studies in Social Sciences, Calcutta, 2008

References:

Available on request