

BRIEF BIO OF PROFESSOR AMIT SHOYON RAY

Amit Shoyon Ray is Professor of Economics at the Centre for International Trade and Development, Jawaharlal Nehru University, New Delhi.

Professor Ray was educated at Presidency College, Calcutta and at the University of Oxford from where he received his D.Phil. in Economics in 1988. He joined JNU in 1995 as Associate Professor and became Professor with effect from January 2000 continuing till date. In between, he has been Director, Centre for Development Studies, Trivandrum during 2013-2016 and Chair Professor at the Indian Council for Research on International Economic Relations, New Delhi during 2008-2010, on leave from JNU. Prior to joining JNU, he held teaching and research positions at premier Universities and Institutions in India and abroad, including Oxford University Institute of Economics and Statistics, International Food Policy Research Institute (Washington DC), University of Calcutta (Kolkata), Indian Institute of Technology (Delhi).

He was elected a Fellow of the Royal Society of Public Health, London in 2006. He has been a Member, Independent Commission of Development and Health in India since 2007. He has served as a consultant to various national and international bodies, including the Planning Commission (Government of India), The World Bank, and UNCTAD.

Professor Ray is a development economist and an innovation scholar, and his research primarily focuses on the Economics of Technology and R&D, Intellectual Property Rights, Economics of Health, Pharmaceutical Industry, WTO-TRIPS, FDI and a wide range of policy issues pertaining to India's development experience. He has over 75 research publications including 7 books and short monographs plus several articles in reputed international journals (categories: ABS 4*/4/3 and ABDC A*/A/B) and edited volumes. He has been invited to present his research and deliver lectures at 31 institutions in 18 countries spanning 5 continents, in addition to 80 institutions in India. He has supervised 26 theses (PhD and MPhil).

His curriculum vitae is appended below.

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Education

1980-1983: Presidency College, Calcutta University
B.Sc. (Economics, Honours), First Class, Rank in the University: First
1983-1988: Oxford University
M.Sc. (Economics for Development), Rank in the University: First
D.Phil. (Economics), Supervisors: Paul Collier and Sanjaya Lall

Experience

Professor: January 2000 onwards

- Jawaharlal Nehru University, New Delhi (Centre for International Trade and Development, School of International Studies), *with effect from January 2000 till date.*

Reader: 1992 – 2000

- Jawaharlal Nehru University, New Delhi (Centre for International Trade and Development, School of International Studies) (1995–2000)
- University of Calcutta (Department of Economics) (1994–1995)
- Indian Institute of Technology, Delhi (Dept. of Humanities & Social Sc.) (1992–1994)

Research Faculty: 1987 – 1992

- Indian Council for Research on International Economic Relations, Delhi (1990–1992)
- International Food Policy Research Institute (IFPRI), Washington D.C. (1988–1990)
- Oxford University Institute of Economics and Statistics (1987–1988)

Lecturer (Non-Stipendiary): 1986 – 1987

- Mansfield College, University of Oxford (1986–1987)

Other Assignments (on leave from JNU)

- **Director**, Centre for Development Studies, Trivandrum (2013–2016: on deputation from JNU)
- **Chair Professor of Trade, Technology & Competitiveness**, Indian Council for Research on International Economic Relations, New Delhi (2008–2010: on leave from JNU).

Areas of Specialisation and Research

- Technology and Innovation, Intellectual Property Rights, University-Industry Linkages
- International Trade, Foreign Direct Investment, WTO
- Economics of Health Care, Pharmaceutical Industry
- Social Sectors
- Applied Econometrics: Cross sectional and Panel Models

Academic Distinctions, Prizes and Awards

- *Fellow*, The Royal Society for Public Health, UK, (FRSH), 2006
- *Graduate Award*, Wolfson College, Oxford; awarded to the top nine (out of 100+) incoming graduate students. (1985-88)
- *Radhakrishnan Memorial Bequest Trust Award*, Oxford University; awarded on a competitive basis to graduate students of Indian nationality at Oxford. (1985-87)
- *Overseas Research Student (ORS) Award*, Government of U.K.; awarded in a nation-wide competition to overseas students for research study in UK. (1984-87)
- *George Webb-Medley Travel Grant*, University of Oxford, for Field Trip to India as part of doctoral research (1985)
- *Special Book Prize*, St. Peter's College, Oxford; awarded for coming first in the M.Sc. examinations at Oxford University. (1984)
- *Jubilee Post-Graduate (Merit) Prize*, Calcutta University for coming First class first in the University of Calcutta B.Sc. (Economics) Examination, 1983
- *J.B. Sinha Memorial Prize*, Presidency College, Calcutta for coming First in Presidency College Department of Economics, 1983
- *U.N. Ghosal Memorial Prize*, Presidency College, Calcutta (Best Undergraduate Economics Student), 1983
- *National Scholar*, Government of India, (Secondary Examination, West Bengal Board), 1978

Research Publications

Journals Articles

1. "Private Sector Presence in India's Healthcare: Econometric Analysis of Patterns and Consequences", *South Asia Economic Journal*, 23 (2), 2022, pp 171-200, (with P. Yadav)
2. "Knowledge Exchange under Asymmetric Information in Emerging Economies: Impact of Signals from Indian Universities", *Industrial and Corporate Change*, 31 (1), 2022, pp 62-88, (with A. Sengupta)
3. "Dynamism and Performance of Indigenous Entrepreneurs: Role of tribal culture and failure of policy incentives in Mizoram (India)", *International Journal of Entrepreneurship and Small Business*, 41 (1), 2020, pp 129-160 (with Shailaja S. Thakur)
4. "Choice of Structure, Business Model, and Portfolio: Organisational models of Knowledge Transfer Offices in British Universities," *British Journal of Management*, 28 (4), 2017, pp 687-710 (with A. Sengupta)
5. "University Research and Knowledge Transfer: A Dynamic View of Ambidexterity in British Universities", *Research Policy*, 46 (5), 2017, pp 881-897 (with A. Sengupta)
6. "Structural Transformation in the North-Eastern Region of India: Charting out an agriculture-based development policy", *Agrarian South*, 6 (3) 2017, pp 373-394 (with A. D'Souza)
7. "India at the WTO: Evolving Priorities, Unaltered Paradigm", *Brazilian Journal of International Relations*, Vol 2 No 2 (2013) (with S. Saha).
8. "Interface of Income, Health and Environment: An Econometric Investigation", *Journal of Indian School of Political Economy*, Vol 24 (2012) pp 13-32. (with A.L.Nagar, A.Sawhney and S.Samanta)
9. "Patenting Public-Funded Research for Technology Transfer: A Conceptual-Empirical Synthesis of U.S. Evidence and Lessons for India", *Journal of World Intellectual Property*, Vol 14 No 1, 2011. (with S. Saha)
10. "Learning and innovation in the Indian Pharmaceutical Industry: The role of IPR and other policy interventions", *RECIIS Electronic Journal of Communication, Information and Innovation in Health* (Brazil), Vol 2 No 2, 2008.
11. "A Game Theoretic Model of Drug Launch in India", *Health Economics, Policy and Law*, Vol 1 No.1, 2006 (with S. Bhaduri)

12. "The Changing Structure of R&D Incentives in India: The Pharmaceutical Sector", *Science Technology and Society* Vol 9 No.2, 2004
13. "India and Asia in the World Economy: The Role of Human Capital and Technology", *International Studies*, Vol. 41 No.3, 2004 (with A. Guha)
14. "Exporting through Technological Capability: Econometric Evidence from Indian Pharmaceutical and Electronics/ Electrical Firms", *Oxford Development Studies*, Vol 32 No.1, March 2004, (with S. Bhaduri)
15. "The Political Economy of Drug Quality: Changing Perceptions and Implications for the Indian Pharmaceutical Industry", *Economic and Political Weekly*, Vol.38 No.23, 7 June, 2003. (with S. Bhaduri)
16. "R&D and Technological Learning in Indian Industry: Econometric Estimation of Research Production Function", *Oxford Development Studies*, Vol 29 No. 2, June 2001 (with S. Bhaduri)
17. "Real Exchange Rates and Manufactured Exports: A Study of India's Potential Exports to the USA", *Journal of Asian Economics*, Vol 9 No.2, 1998 (with B. Gupta)
18. "India's Economic Reforms in Progress: An Introductory Note", *Journal of Asian Economics*, Vol 8 No.3, 1997

Refereed articles in Edited Volumes

1. "Comment 12.3 on Toward a Comprehensive Set of Metrics for Knowledge Transfer (Chp 12)", in A. Arundel, S. Athreye, & S. Wunsch-Vincent (Eds.), *Harnessing Public Research for Innovation in the 21st Century: An International Assessment of Knowledge Transfer Policies*, pp. 460-463, Cambridge: Cambridge University Press (2021). doi:10.1017/9781108904230.028
2. "Data Exclusivity in Trade Agreements: An Indian Perspective", in M. Agarwal and J. Whalley (eds.), *The Economies of China and India: Cooperation and Conflict, Volume 3: Economic Growth, Employment and Inclusivity: The International Environment*, World Scientific, Singapore (2017) (with R. Jain)
3. "Reflections on India's Emergence in the World Economy", in M. Agarwal and J. Whalley (eds.), *The Economies of China and India: Cooperation and Conflict, Volume 3: Economic Growth, Employment and Inclusivity: The International Environment*, World Scientific, Singapore (2017) (with S. Ghosh)
4. "Quality of Social Science Research in India", in S. Thorat and S. Verma (eds.) *Social Science Research in India*, Oxford University Press: New Delhi, 2017 (with, M Parameswaran, M Agarwal, S Ghosh, U Das, U S Mishra, V Abraham).
5. "The Enigma of the 'Indian Model' of Development", in A. Calgano, S.Dullien, A. Márquez-Velázquez and J.Priewe (eds.) *Rethinking Development Strategies after the Financial Crisis, Volume 2: Country Studies And International Comparisons*, United Nations: Geneva and New York, 2016.
6. "The Indian Pharmaceutical Industry: Policy Space that fosters Technological Capability" in Daniel Drache and Leslie Jacobs (eds.) *Linking Global Trade and Human Rights: New Policy Spaces in Hard Economic Times*, Cambridge University Press, New York, 2014. (with S Bhadhuri)
7. "The TRIPS Agreement – Public Health Concerns for India" in A. Barua and R. M. Stern (eds.) *The WTO and India: Issues and Negotiating Strategies*, Orient Blackswan: New Delhi, 2010.
8. "Shifting Coordinates of India's Stance at the WTO: Understanding the Domestic and International Economic Drivers," in A. Narlikar and B. Vickers (eds), *Leadership and Change in the Multilateral Trading System*, Republic of Letters Publishing/ Martinus Nijhoff Publishers: Dordrecht, 2009, (with S. Saha).
9. "Emerging through Technological Capability: An Overview of India's Technological Trajectory", in M. Agarwal (ed), *India's Economic Future: Education, Technology, Energy and Environment*, Social Science Press, New Delhi, 2009.

10. "Access to New Drugs in India: Implications of TRIPS" in M. Agarwal and A.S.Ray (eds.) *Globalisation and the Millennium Development Goals: Negotiating the Challenge*, Social Science Press: New Delhi and Berghahn Books: Oxford, 2007, (with M. Chakravorty)
11. "Globalisation and the Millennium Development Goals: Negotiating the Challenge", *Globalisation and the Millennium Development Goals: Negotiating the Challenge*, Social Science Press: New Delhi and Berghahn Books: Oxford, 2007, (with M. Agarwal).
12. "India's Economic Reforms: Opportunities, Challenges and Political Economy Perspectives" in L. White (ed) "Is there an Economic Orthodoxy? Growth and Reform in Africa, Asia and Latin America", SAIIA: Johannesburg, 2006.
13. "Rumo à globalização: aspirações e apreensões econômicas da Índia no novo milênio," in F.Villares (ed.) *Índia, Brasil e África do Sul: Perspectivas e Alianças*, Fundação Editora da UNESP (FEU): Sao Paulo, 2006. [English Version: "Going Global: India's Economic Aspirations and Apprehensions in the New Millennium" in F. Villares (ed.) *India, Brazil and South Africa: Perspectives and Alliances*, Editora UNESP: Sao Paulo, 2006]
14. "Digital Divide among Selected Industrialized States in India: Myth or Reality?" in V. Upadhyay et al (editors) *Productivity and Quality: A Multidisciplinary Perspective*, Tata McGraw-Hill: New Delhi, 2006. (with S. Bera)
15. "The Indian Pharmaceutical Industry at Crossroads: Implications for India's Health Care", in A.K. Bagchi and K. Soman (eds) *Maladies, Preventives and Curatives: Debates in Public Health in India*, Tulika Books: New Delhi, 2005.
16. "The Political Economy of Rural Health Care in India: A Micro-theoretical Model", in P. Gangopadhyay and M. Chatterji (eds.) *Economic Globalization in Asia*, Ashgate: London, 2005 (with S. Bhaduri)
17. "Technological Development in Indian Industry: Challenges and Options after the East Asian Crisis", R. Hooley and J.H.Yoo (ed.), *The Post Financial Crisis Challenges for Asian Industrialization*, Elsevier Science: Oxford, 2002 (with S. Bhaduri)
18. "Multinational versus Expatriate FDI: A Comparative Analysis of the Chinese and Indian Experience", in T.N. Srinivasan (ed.), *Trade Finance and Investment in South Asia*, Social Science Press: New Delhi, 2001 (with A. Guha)
19. "Are Foreign Firms Technologically More Active and Progressive? Evidence from the Indian Chemicals Industry", in J.R.Behrman et al (eds.), *Restructuring Asian Economies for the New Millennium*, Elsevier Science: Amsterdam, 2001.
20. "A Statistical Profile of West Bengal Industry: Trends and Structural Changes 1976-1991", in A. Raychaudhury and D. Sarkar (eds.), *Economy of West Bengal: Problems and Prospects*, Allied: Calcutta, 1996.
21. "India's Export Performance and Policy Environment", in S.P.Gupta, A. Hussain and N. Stern (eds.), *Development Patterns and Institutional Structures in China and India*, Allied: New Delhi, 1995.
22. "Liberalisation and India's Export Competitiveness: A Sectoral Profile of Effective Export Incentive Structure 1981-1991", in S.P.Gupta (ed.), *Liberalisation and its Impact*, MacMillan: New Delhi, 1993.
23. "White-Collar Pay and Employment 1970-1982", in M.B.Gregory and A.W.J.Thompson (eds.), *A Portrait of Pay 1970-82: An Analysis of the New Earnings Survey*, Clarendon Press (OUP): Oxford, 1990. (with K. Mayhew)
24. "The Determinants and Promotion of South-South Trade in Manufactured Products", in V.Ventura-Dias (ed.), *South-South Trade: Trends, Issues and Obstacles to its Growth*, Praeger: New York, 1989. (with S. Lall).

Books and Short Monographs

1. *Demystifying the Economics of Technology: Perspectives on Development and Reflections from India*, (South Asia Edition) Social Science Press and Orient Blackswan: New Delhi, 2024.

2. *What is Economic Development? A Comparative Performance of Indian States*, Routledge: London and New York (Global Edition) and Social Science Press: New Delhi, (South Asia Edition), 2019. (with M Agarwal and M Parameswaran)
3. *The Political Economy of Smoking Tobacco in India: Perspectives on Production, Consumption and Control*, Monograph of Voluntary Health Association of India, VHA Press: New Delhi, 2010. (with S. Bhaduri)
4. (Edited) *Globalisation and the Millennium Development Goals: Negotiating the Challenge*, Social Science Press: New Delhi and Berghahn Books: Oxford, 2007. (with M. Agarwal)
5. *Medicines, Medical Practice and Health Care in India in the era of Globalisation: Political Economy Perspectives*, Monograph of the Independent Commission on Development and Health in India, VHA Press: New Delhi, 2004.
6. *The Emerging International Economic Order: A Third World Perspective*, Monograph of South-South Solidarity, New Delhi, 2002.
7. *The Political Economy of Rural Health Care in India*, Monograph of the Independent Commission on Health in India, VHA Press: New Delhi, 2001.

Working Papers, Conference Proceedings, Research Reports

1. *Challenges to the Unipolar World Order: The Two Ongoing Wars and Global South Consolidation (December 2024)* Available at SSRN: <https://ssrn.com/abstract=5050420>
2. *Private Sector Presence in India's Healthcare: Econometric Analysis of Patterns and Consequences*, Social Science Research Network (SSRN), Feb 2021, Available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3738082, (with P. Yadav)
3. *Drivers of Knowledge Exchange from Indian Universities: The Role of Signalling under Asymmetric Information*, Social Science Research Network (SSRN), Oct 2018, Available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3256721, (with A. Sengupta).
4. *Assessing Development: Where are the Indian States?* A monograph Centre for Development Studies (CDS), Trivandrum, January 2018 (with M Agarwal and M Parameswaran).
5. *Science Research and Knowledge Creation in Indian Universities: Theoretical Perspectives and Econometric Evidence*, Discussion Paper no 15-10, Centre for International Trade and Development, JNU: August 2015 (with Sabyasachi Saha)
6. "Commercialisation of University Inventions in India: Highlights from Selected Case Studies", *India Science and Technology Report*, (Volume 3) CSIR-NISTADS, Foundations Books, New Delhi, 2015.
7. *Structural Transformation in the North-Eastern Region of India: Charting out an agriculture-based development policy*, Discussion Paper no 14-04, Centre for International Trade and Development, JNU: December 2014 (with Alwin D'souza).
8. *Commercialisation of Inventions from Public Funded Research in India – Case Studies of Selected Institutions*, Project Report submitted to the Department of Science & Technology, Government of India: June 2012. (with S. Saha)
9. *Shaping the Coordinates of India's Trade Policy Architecture: Domestic versus International Drivers*, ISAS Working Paper No 126 (21 April 2011), Institute of South Asian Studies, National University of Singapore.
10. *Leveraging Public Funded Research for India's Economic Emergence: Role of IPR*, in Julia Melkers, Thema Monroe-White and Susan E. Cozzens (eds), 2011 Atlanta Conference on Science and Innovation Policy Proceedings, IEEE Xplore, November 2011, (with S. Saha), <https://ieeexplore.ieee.org/document/6064483>
11. *Drivers of Academic Research and Patenting in India: Econometric Estimation of the Research Production Function*, Working Paper No 247, Indian Council for Research on International Economic Relations, New Delhi, April 2010. (with S. Saha).
12. *More Hurt than Promoted: A Study of FM Broadcast and Music Sales in India*, Report prepared for PPL, India and Luthra and Luthra Law Offices, New Delhi, August 2009.

13. *India's Tryst with Technology: The Way Forward*, Discussion Paper No 09-11, Centre for International Trade and Development, Jawaharlal Nehru University, New Delhi, June 2009, (with S. Saha).
14. *To Contribute or Not to Contribute: Micro theoretical models of Open-Source Software (OSS) Development*, Discussion Paper No 09-09, Centre for International Trade and Development, Jawaharlal Nehru University, New Delhi, March 2009, (with S. Bera).
15. *Co-evolution of IPR Policy and Technological Learning in Developing Countries: A Game-theoretic Model*, Paper for IV Globelics Conference, September 2008, (with S. Bhaduri)
16. *India-Brazil Trade in Services: Opportunities and Challenges*, Report prepared for Indian Council for Research on International Economic Relations, New Delhi. March 2007.
17. *Managing Port Reforms in India: Case Study of JNPT, Mumbai*, Background paper for the World Development Report (WDR) 2005, The World Bank, Washington DC.
18. *A Study of R&D Incentives in India: Structural Changes and Impact*, Project Report submitted to the Department of Science & Technology, Government of India, May 2003.
19. *Report of the Committee on India: Vision 2020*, Planning Commission, Government of India, (Member-Secretary), December 2002.
20. "Child labour in India: Determinants and Economic Consequences", Note prepared for the VHA Report *Seen but not Heard: India's Marginalised Neglected and Vulnerable Children*, VHA, New Delhi, March 2002 (with S. Banerjee)
21. *A Socio-Economic Study of the Role of In-house R&D in Indian Industry: A Case Study of Pharmaceutical and Tyre Sectors*, Project Report Submitted to the Department of Science & Technology, Government of India, March 2002. (with V.Upadhyay et al)
22. "Multinational versus Expatriate FDI: A Comparative Analysis of the Chinese and Indian Experience", *ICRIER Working Paper No 58*, Indian Council for Research on International Economic Relations, New Delhi. (with A. Guha).
23. *The Role of In-house R&D in Indian Industry: A Case Study of Chemical and Electrical/ Electronic Sectors*, Project Report Submitted to the Department of Science & Technology, Government of India, July 1999.
24. "The Economics of Health Care in India: A Case Study of the Sewapuri Block in U.P.", Chapter 21B in *Report of the Independent Commission on Health in India*, VHA: New Delhi, November 1996.
25. *Human Capital Accumulation in Post-Green Revolution Rural Economies: A Conceptual and Empirical Synthesis*, Mimeo., International Food Policy Research Institute, Washington D.C., August 1990. (with R. Sabot)
26. "The Changing Structure of UK Production, Trade and Employment: An Analysis using Input-Output Tables 1974-1984", *Oxford Applied Economics Discussion Paper No.70*, Oxford University Institute of Economics and Statistics, 1989 (with C. Greenhalgh and M.B. Gregory)
27. "Employment and Structural Change in Britain: Quantitative Evidence and Policy Simulations", *Oxford Applied Economics Discussion Paper No.44*, Oxford University Institute of Economics and Statistics, 1989 (with C. Greenhalgh and M.B. Gregory)

Selected Popular Articles in Newspapers/ Magazines/ Policy Documents

1. "Master of None", Op-ed article in *The Telegraph (Kolkata)*, Sunday 9 July 2023 (with V. Upadhyay)
2. "How COVID-19 exposed the public character of health", in *COVID-19: Global and National Response and Lessons for the Future*, Independent Commission of Development and Health in India, pp 105-106, VHA Press: New Delhi, 2021.
3. "India's Public Funding of Health Care: Some Reflections", in *A Roadmap to India's Health*, Independent Commission of Development and Health in India, pp 125-129, VHA Press: New Delhi, 2018.
4. "Intellectual Bottlenecks", Op-Ed article in *The Financial Express*, Delhi and other cities, Saturday 16 January 2010. (with S.Saha)

5. "Financing of Health Care in India: Issues and Concerns", *Health for the Millions*, Feb-Mar and Apr-May 2008
6. "Technological Development: Lessons from East Asia", *Yojana*, January 2006 (with A. Palit)
7. "English Speaking Force Main Asset", *Financial Express* (FE Insight: FDI and Trade), Mumbai and other cities, Wednesday, 2 November 2005.
8. "Trip(s)ping up on healthcare", *Economic Times* (Op-edit article), Delhi and other cities, Saturday 11 June 2005.
9. "Central Budget 2003/04: What is in store for the social sector?" *Health for the Millions*, Jun-Sep 2003.

Research Assignments/ Grants

- *Intellectual Property Management at Centres of Higher Education: A Comparative Study of India and the United Kingdom*, Collaborative project with Dr A Sengupta, University of Essex, UK, funded by JNU-Essex Development Fund (JEDF).
- *Clinical data, Bioequivalence and Generic Drugs: Analysis from India and Brazil*, Collaborative Research project with Dr Fabienne Orsi, University of Aix Marseille and Dr Claudia Chamas, FIOCRUZ, Brazil sponsored by ANRS (The French National Agency for Research on AIDS and Viral Hepatitis), Government of France.
- *Commercialisations of Inventions from Public Funded Research in India*, sponsored by the Department of Science & Technology, Govt of India.
- *Emerging Economies in the New World Order: Promises, Pitfalls and Priorities – A Multi-Country Research Dialogue* (sponsored by IDRC at ICRIER, New Delhi)
- *The Political Economy of Tobacco in India*, for the Voluntary Health Association of India, New Delhi.
- *A Study of Music Broadcasting and Music Sales in India: Implications for pricing of music copyrights*, for Phonographic Performance Limited (PPL), India.
- *India-Brazil Trade in Services: Opportunities and Challenges*, for Indian Council for Research on International Economic Relations (ICRIER), New Delhi
- *Going Global: India's Economic Aspirations and Apprehensions in the New Millennium*, for a project on "India, Brazil, South Africa (IBSA): Development Patterns, Convergences and Alliance Perspectives", sponsored by Instituto de Estudos Econômicos Internacionais (IEEI), Sao Paulo, Brazil.
- *Managing Port Reforms in India: Case Study of JNPT*, for the World Development Report (WDR) 2005, The World Bank, Washington DC.
- *R&D Incentives in India: Structural Changes and Impact (with case studies of pharmaceutical and food processing sectors)*, sponsored by the Department of Science & Technology, Govt. of India.
- *A Socio-Economic Analysis of the Role of In-house R&D in Indian Industry: Study of Pharmaceutical & Tyre Sectors*, sponsored by the Department of Science & Technology, Govt. of India.
- *The Role of In-house R&D in Indian Industry*, sponsored by the Department of Science & Technology, Govt. of India.
- *The Changing Profile of the Indian Drug Industry under a New Global Order: Implications for India's Health Care*, for the Independent Commission on Development and Health in India (ICDHI), New Delhi.
- *Political Economy of Rural Health Care: Case Studies in UP, HP and WB*, for Voluntary Health Association of India (VHAI): New Delhi.
- *Foreign Direct Investment in Chinese and Indian Economic Development: A Comparative Analysis*, for SANEI (South Asia Network for Economics Institutes).

Research Supervision

PhD:

1. *Private Provision of Merit Goods in India: A Comparative Analysis of Healthcare and Education*, 2023: Priyanka Yadav
2. *Challenges and Prospects of Tourism as a Development Option: The Experience of Kerala*, 2023: Nalini Netto (CDS)
3. *Entrepreneurship in Tribal Societies: A Case of Mizo Entrepreneurs*, 2014: Shailaja S Thakur
4. *Knowledge Creation and Technology Transfer from Public Funded Research in India: Theoretical Explorations and Empirical Evidence*, 2013: Sabyasachi Saha
5. *Open-Source Software Development: Theoretical Perspectives*, 2008: Subhashis Bera
6. *The Impact of Micro Credit on Rural Households: Micro-theoretical Explorations and Econometric Evidence*, 2006: Susmita Banerjee
7. *Human Development Indicators in OIC Countries: Trends and Determinants*, 2004: Mohammad Javad Razmi
8. *Foreign Direct Investment in India: An Economic Analysis of Determinants and Constraints*, 2004: Amitendu Palit
9. *An Economic Analysis of R&D and Technology Generation in the Indian Pharmaceutical Industry*, 2001: Saradindu Bhaduri
10. *Some Aspects of Gains from Technology Transfer*, (joint supervision with S K Das) 2000: Saon Ray

MPhil:

1. Changes in Wage Inequality in India: A Decomposition Analysis at the National and State Levels, Rohit Munshi (2022)
2. Trade Liberalization and Occupational Structural change in India: An Econometric Analysis, Ayush Kumar (2022)
3. An Econometric Analysis of Smoking Behaviour in India: Pictorial Warning, Quitting Perception, and Smoking Intensity, S.M. Sadain Raza (2022)
4. Equality of Opportunity and Innovation: A cross-country econometric analysis, Monika (2021)
5. Private-Public Mix in Healthcare Provision and Health Outcomes in India: A District-level Analysis, Priyanka Yadav (2019).
6. Development Performance of Indian States in a Multidimensional Framework: A study of Inter-linkages among dimensions and clusters of states, Piyush Swain (2018).
7. Structural Transformation of North-East Indian Economy and Agricultural Development, Alwin D'souza (2013)
8. Intellectual Property Rights and Academic Research in India: An Empirical Analysis, Sabyasachi Saha (2009)
9. Health Inputs, Health Outcomes and Economic Performance: Evidence from the Indian States, Debosree Banerjee (2007)
10. Measurement of Digital Divide in Asia and India: A Framework for Cross-country and Inter-state Analysis, Subhashis Bera (2005)
11. An Empirical Analysis of Access to New Drugs in India: Public Health Implications of the TRIPS Agreement, Manashi Chakravorty (2004)
12. Economic Growth and Human Development – An Indian Case Study, Sharmistha Maitra, (2003)
13. Educational Investment Decisions of Rural Households: Theoretical Explorations and Econometric Evidence from West Bengal, Susmita Banerjee (2002)
14. An Analysis of In-House R&D Effort of LDC Enterprises: Evidence from Indian Chemical and Electronics Industries, Saradindu Bhaduri, (1999)

15. Foreign Direct Investment and Technological Progress: A Growth Accounting Approach to the Indian Economy, Debakanta Nayak, 1970-1995 (1997)
16. Foreign Direct Investment and Export Performance – The Indian Experience Post Liberalisation, Shailaja Sanghamitra (1997)

Courses Taught

- *MA in Economics*
 - Economics of Technology & Development (JNU and CDS)
 - Advanced Econometrics (JNU)
 - Economic Development (JNU and CDS)
 - Macroeconomics (JNU)
 - Microeconomics (Calcutta University)
 - Trade and Development (Calcutta University)
- *MA in Politics (with specialization on International Relations):*
 - Principles of Economic Organisation (JNU)
- *MPhil in International Trade and Development*
 - Quantitative Methods (JNU)

Keynote/ Plenary/ Special Lectures

1. *Diaspora as a source of foreign direct investment, **Keynote Address*** at the National Seminar on Indian Diaspora: Paving the path of Vikshit Bharat by 2047, Centre for International Trade and Development, School of International Studies, Jawaharlal Nehru University, New Delhi, 13 February 2025.
2. *Locating Intellectual Property Rights (IPR) in a Discourse on Development, **50th Foundation Year Lecture***, Centre for Development Studies (CDS), Thiruvananthapuram (Kerala), 20 Nov 2020.
3. *Channels of Knowledge Transfer from Universities: Does One Size Fit All? **Plenary Talk*** at the 4th INDIALICS 2017 International Conference on “Innovation and Sustainable Development”, organised by CSSP (JNU), NISTADS and RIS, New Delhi 2 Nov 2017
4. *Development and Inequality, **Public Lecture*** at the Department of Economics, Goa University, 18 July 2017.
5. *Understanding Inequality within a Theoretical Frame of Economic Development for an Effective Redressal, **Keynote Lecture*** at the ICSSR (Indian Council of Social Science Research) and NWO (Netherlands Organisation for Scientific Research) Joint Seminar on “Comparative Perspectives on Growing Socio-Economic Inequalities in India and Europe”, Bangalore, 8 Feb 2017.
6. *Intellectual Property Rights through the Lenses of a Discourse on Development, **Annual Christopher Freeman Lecture*** 2016, Centre for Studies in Science Policy, JNU, New Delhi, 14 September 2016.
7. *Competing through Technological Capability: Indian Pharmaceutical Industry at Crossroads, **Think Tank Executive Lecture***, HLL Lifecare Limited, Trivandrum, 1 Feb 2016.
8. *Economics of IPR: Promises and Pitfalls, **Dr John Mathai Memorial Lecture***, Dr John Mathai Centre (University of Calicut), Thrissur, 11 January 2016.
9. *The Indian Pharmaceutical Industry in a Changing Global Landscape, **2nd K E Vaidyanathan Memorial Lecture***, organised by Indian Association for Social Sciences and Health, held in Trivandrum, 10 December 2015.
10. *Knowledge Creation and Knowledge Transfer for Inclusive Agricultural Development, **Keynote Lecture*** at INDIALICS 2015, Punjabi University, Patiala, 28 July 2015.

11. *India's Emergence in the World Economy*, **Invited Special Lecture** at Southern Air Command, Indian Air Force, Trivandrum, 12 November 2014.
12. *Public Funded Research and Technology Transfer: Implications of the Bayh-Dole Act and its Indian Equivalent*, **NCL Innovations Lecture Series** (2nd Talk), National Chemical Laboratory (NCL), Pune, 11 Dec 2008.
13. *Economic Development: An Introduction*, **Keynote Lecture** at a Workshop on "The Role of Media in Development and Governance", organized by Centre for Media Research and Development Studies and British Deputy High Commission, Kolkata, 27-28 March, 2008.
14. *Going Global: India's Aspirations and Apprehensions in the New Millennium*, **Keynote Lecture** at the Economics Festival at I.P. College, Delhi University, Delhi, Dec 3, 2007.

Professional Activities/ Affiliations

- *Fellow*, The Royal Society for Public Health, London (FRSH)
- *Member*, Independent Commission on Development and Health in India, Delhi (2007 onwards)
- *Visiting Senior Fellow*, HTW-Berlin University of Applied Sciences, Berlin, Germany, November 2009
- *Life Member*, Indian Statistical Institute

- *Member-Secretary*, *India: Vision 2020 Committee*, Planning Commission, Govt of India
- *Member*, Program Committee, 2025 Atlanta Conference on Science and Innovation Policy, School of Public Policy, Georgia Institute of Technology, Atlanta GA.
- *Expert Member*, Evaluation cum Review Committee of Research Proposals (from the Department of Humanities and Social Sciences) under *Grand Challenges Scheme IIT Delhi (2020-2024)*
- *Member*, Standing Committee, Human Rights Studies Programme, JNU (2012-2019)
- *Member*, Kerala State Audit Advisory Board, Govt of Kerala (2016)
- *Member*, Governing Body, Centre for Development Studies, Trivandrum (2012-16)
- *Member*, Academic Council, Indian Institute of Foreign Trade, New Delhi (2014 -17)
- *Member*, General Body, Institute of Development Studies Kolkata (2014-16)
- *Member*, Research Advisory Council, KM Mani Centre for Budget Studies, Cochin University of Science and Technology (2014-16)
- *Member*, Research Council, Kerala University, Trivandrum (2014-16)
- *Member*, Planning Committee, Kerala University of Health Sciences, Thrissur (2015-16)
- *Member*, Management Council, Kerala Veterinary and Animal Sciences University, Waynad, Kerala (2014-16)
- *Member*, Governing Council, Inter University Centre for IPR Studies, Cochin University of Science and Technology, Kochi (2014-16)
- *Member*, Governing Council, Kerala Institute of Local Administration (KILA), Thrissur, Kerala (2014-16)
- *Member*, Guidelines Review Committee, Indian Council for Social Science Research (ICSSR), Govt of India (2015-16).
- *Member*, Technical Advisory Group, BIOFIN India Initiative, National Biodiversity Authority, Government of India.
- *Member*, Expert Committee for Social Impact Assessment for INSPIRE Programme, Department of Science and Technology (DST), Government of India.
- *Member*, Working Group on Ports for the Twelfth Five Year Plan, Planning Commission
- *Member*, Sub-Group on 'Technology Intensity in India's Manufacturing Exports' under the Planning Commission's Working Group on 'Boosting India's Manufacturing Exports' for the 12th Five Year Plan.

- *Expert Commentator:* All India Radio
Voice of America
BBC
DD Bangla
DD Urdu

- *Consultant*, The World Bank (for the *World Development Report 2005*)
- *Consultant*, UNCTAD, Geneva
- *Consultant*, Planning Commission, Government of India
- *Consultant*, Voluntary Health Association of India, New Delhi
- *Consultant*, Indian Council for Research on International Economic Relations, New Delhi
- *Consultant*, Phonographic Performance Limited (PPL) India, on Music Copyrights

- *Associate Executive Editor*, Journal of Asian Economics (Elsevier) 1997-2007
- *Referee* for the following journals and publishers:
 - World Development
 - Oxford Development Studies
 - Weltwirtschaftliches Archiv (Review of World Economics)
 - Cambridge Review of International Affairs
 - Industrial and Corporate Change
 - Asia-Pacific Journal of Economics and Business
 - Asia Pacific Journal of Public Health
 - Journal of Quantitative Economics
 - Journal of Asian Economics
 - Scientometrics
 - Journal of World Intellectual Property
 - International Studies
 - Routledge Publishers: UK
 - Social Science Press: New Delhi
 - Economic and Political Weekly

Administrative Experience

- Director, Centre for Development Studies, Trivandrum (2013-2016)
- Chairperson, Centre for International Trade & Development, JNU (2005 –2007; 2013)
- Warden, Jhelum Hostel (1995-1999), JNU; Senior Warden (1997-1998)
- Coordinator, MPhil Programme in *International Trade and Development*, School of International Studies, JNU (1999-04)
- Director, Ford Foundation Endowment Grant at CITD/JNU (2017-2022)
- Member-Secretary, India: Vision 2020 Committee, Planning Commission, Govt of India

Academic Presentations at Conferences/ Seminars/ Workshops/ Roundtables

Abroad

1. Brazil:
 - a. Departamento do DST, Aids e Hepatites Virais (held in Rio-de-Janeiro)
 - b. China-Brazil Business Council (CEBC), Rio-de-Janeiro (held in Sao Paulo)
 - c. Federal University of Rio-de-Janeiro, Rio-de-Janeiro
 - d. Oswaldo Cruz Foundation (FIOCRUZ), Rio-de-Janeiro
 - e. Instituto de Estudos Econômicos Internacionais (IEEI), Sao Paulo.

2. Canada:
 - a. Centre for International Governance Innovation (CIGI), Waterloo
 - b. EDGE (Emerging Dynamic Global Economies) Network (held in Vancouver)

3. China:
 - a. Peking University (School of Economics), Beijing
 - b. East China Normal University, Shanghai
4. France:
 - a. SESSTIM (Sciences Économiques & Sociales de la Santé & Traitement d'Information Médicale), University of Aix Marseille School of Economics, Marseille
 - b. Centre d'Economie de Université Paris Nord, University of Paris 13, Paris
5. Germany:
 - a. HTW-University of Applied Sciences, Berlin
6. Japan:
 - a. Asian Development Bank of Institute, Tokyo
7. Jordan:
 - a. University of Jordan, Amman
8. Nepal:
 - a. South Asia Network of Economic Research Institutes (held at Kathmandu)
 - b. Nepal Institute of International Cooperation and Engagement
9. Netherlands
 - a. International Institute of Social Studies (ISS), The Hague
10. Pakistan:
 - a. Institute of Business Administration, Karachi.
11. Singapore:
 - a. Institute of South Asian Studies, National University of Singapore
12. South Africa:
 - a. Institute for Global Dialogue, Pretoria (held in Johannesburg)
13. Spain:
 - a. Casa Asia, Barcelona.
14. Switzerland:
 - a. WTO (World Trade Organisation), Geneva
 - b. WIPO (World Intellectual Property Organisation), Geneva
15. Taiwan:
 - a. National Chengchi University (Institute of International Relations), Taipei.
16. Thailand:
 - a. Chulalongkorn University, Bangkok.
17. United Kingdom:
 - a. Essex Business School, University of Essex, Southend on Sea
 - b. Sheffield Political Economy Research Institute, University of Sheffield held at Leicester)
 - c. Birbeck University of London
 - d. Institute of Economics and Statistics, University of Oxford, Oxford

18. United States of America:

- a. School of Public Policy, Georgia Institute of Technology, Atlanta GA
- b. International Food Policy Research Institute, Washington D.C.

India

1. Academic Staff College, University of Calcutta
2. Academic Staff College, Jawaharlal Nehru University, New Delhi
3. Administrative Staff College of India, Hyderabad
4. Allahabad University, Department of Economics
5. Alliance for the Right to Early Childhood Development, Mobile Crèches, New Delhi
6. Assam Administrative Staff College, Guwahati
7. Bangla World Wide
8. Burdwan University, West Bengal
9. Calcutta University, Department of Economics
10. Central University of Kerala, School of Global Studies, Kasargod
11. Central University of Tamil Nadu, Thiruvarur
12. Centre for Development Studies, Trivandrum
13. Centre for Economic Studies and Planning, JNU
14. Centre for International Trade and Development, JNU
15. Centre for Media Research and Development Studies, Kolkata
16. Centre for Social Medicine and Community Health, JNU
17. Centre for Studies in Science Policy, JNU.
18. Centre for Vietnam Studies, New Delhi
19. Christ University, Bangalore
20. Cochin University, (KM Mani Centre for Budget Studies), Cochin
21. College of Air Warfare (Indian Air Force), Hyderabad
22. Consultancy Development Centre (CDC), DSIR, Govt of India
23. Cotton College, Guwahati
24. Delhi School of Economics, University of Delhi.
25. Dibrugarh University (Assam), Dept. of Economics
26. Embassy of Brazil at New Delhi.
27. Embassy of Vietnam at New Delhi.
28. Foreign Service Institute, Ministry of External Affairs, Govt of India, New Delhi
29. Gender Park, Dept of Social Justice, Govt of Kerala
30. Goa University, Department of Economics
31. HURITER (Centre for Promotion of Human Rights Teaching and Research), JNU.
32. I.P. College, Delhi University
33. Independent Commission on Development and Health in India, New Delhi.
34. India International Centre, New Delhi
35. Indian Association for Social Sciences and Health
36. Indian Council for Research on International Economic Relations, New Delhi
37. Indian Council of Social Science Research, New Delhi
38. Indian Institute of Advanced Studies (Shimla) and International Centre (Goa)
39. Indian Institute of Foreign Trade, New Delhi
40. Indian Institute of Technology, Delhi
41. Indian Institute of Technology, Roorkee
42. Indian Political Economy Association
43. Institute for Competitiveness, Gurgaon, Haryana
44. Institute for Studies in Industrial Development (ISID), New Delhi
45. Institute for Sustainable Development and Governance, Trivandrum
46. Institute of Development Studies Kolkata (IDSK), Calcutta
47. Institute of Company Secretaries of India, Kolkata
48. John Mathai Centre (University of Calicut), Thrissur

49. Kalyani University, West Bengal
50. Kerala Economic Association
51. Kerala Police and Bureau of Police Research and Development
52. Kerala State Higher Education Council, Govt of Kerala
53. Kerala University, Department of Statistics, Trivandrum
54. Kerala University, School of Social Sciences (MARC), Trivandrum
55. Kerala Voluntary Health Services, Kottayam
56. Mahatma Gandhi University (School of International Relations), Kottayam, Kerala.
57. Ministry of Finance (Department of Economic Affairs), Government of India.
58. National Chemical Laboratory (NCL/CSIR), Pune.
59. National Law University, Delhi
60. National Law University, Jodhpur.
61. National Institute of Public Finance and Policy, New Delhi.
62. National Institute of Science Technology and Development Studies (NISTADS), Delhi
63. National Institute of Technology (NIT), Kurukshetra
64. Nehru Memorial Museum and Library, New Delhi
65. NITI Aayog, Government of India, New Delhi.
66. Panjab University (Chandigarh), Dept of Economics
67. Press Club, Kolkata
68. Punjabi University, Patiala
69. Rabindra Bharati University, Kolkata
70. Research and Information Systems for Developing Countries (RIS), New Delhi
71. S.S.M. Law College, Jalgaon (Maharashtra)
72. Sacred Heart College, Kochi
73. School of International Studies, JNU
74. Southern Air Command, Trivandrum
75. Sri Venkateswara College, University of Delhi
76. St. Xavier's University, Kolkata
77. Tamil Nadu National Law University, Tiruchirappalli (Tamil Nadu)
78. Tripura University, Agartala
79. Union Christian College (Dept of Economics), Aluva (Kerala)
80. University College, Trivandrum
81. West Bengal National University of Juridical Sciences, Kolkata