

# CURRICULUM VITAE

Dr. (Mrs.) Nilabja Ghosh (Sengupta)  
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## Qualifications

**Ph.D. thesis:** 'Supply responses in Indian Agriculture' doctoral degree from Indian Statistical Institute 2000 (As JRF of ISI on ISI Fellowship and as Lecturer in ISI and Calcutta University)

**M.A. Economics:** Calcutta University with National Scholarship, UGC

**B.Sc. (Econ. Honours, with Mathematics and History):** Presidency College Calcutta in 1981 with National Scholarship, Ministry of Education

## Current Position, Personal details and Employment history

**Current position:** Professor in Institute of Economic Growth Delhi

**Name:** Nilabja Ghosh (Sengupta)  
**Date of Birth:** 04.08.1960, Kolkata  
**Sex:** Female

## Professional details

**Experience:** Research based support to Policy and Statistics for Agriculture & Rural development, Teaching, Administration,

**Research areas:** Applied Econometric Modeling, data analysis (primary survey, secondary and unit level official data) and Forecasting.

**Teaching experience:** Undergraduate University-level Economics (Hons and Pass) - Macroeconomics, Microeconomics, Business Economics, Post-graduate level Managerial Economics, Development economics, Statistics. Lectures in training

programme for Indian Economic Service (IEG) and other national and international training courses. Training of student-interns from Engineering and Humanities disciplines in empirical research.

**Practical relevance:** Official support to national and international statistics, evaluation of programmes.

**Team work and Administration:** Team-based work and leadership (as head of department and principal investigator), interactions with Funding agencies, presentation to funding agencies and Ministries and Administration.

### **Supervision of Doctoral research**

Registered co-supervisor 'Econometric analysis of Biofuel prospects using classical and Bayesian techniques with implications for Food Security in India' submitted to Kumaon University (Completed, degree awarded)

Registered co-supervisor 'Gains from short-term rural employment generation programmes – A study with reference to Tripura' (studying MGNREGA using primary data)

Examiner of Ph.D and M.Phil thesis submitted to Delhi School of Economics, Calcutta University and Jawaharlal Nehru University

### **Research Roles/Projects**

Research papers in journals (including Economic and Political Weekly, Indian Journal of Agricultural Economics, Indian Journal of Labour Economics, Ecological Economics, Books.

#### **Research roles:**

- Member of Committee to firm up Advance and Final estimates of crop output at Ministry of Agriculture and Farmers Welfare.
- Member of task force for development of Real Time System of crop production forecasting at Ministry of Agriculture and Farmers Welfare.
- Member of the weekly Crop Weather Watch Group (CWWG) of the Agriculture Ministry.

**'FASAL** (Forecasting of Agricultural output with Satellite, Meteorological and Land based observation from 2006-07 onwards)': Econometric component of a **multi-discipline partnership** (Meteorologists, Space Application scientists and Field officers)

**RTISA** (Real Time Information System of Agriculture Sector from 2019-20 (Rabi Season): Monthly submission of early estimates of crop area and yield

**'CHAMAN** (Coordinated Horticulture Assessment using Management using geoinformatics)' from 2018-19-2021-22.

**SUFALAM** (Space Technology Utilization for Food Security, Agricultural Assessment and Monitoring) for forecasting crop production and prices in collaboration with Indian Space Research Organization (ISRO) from 2019-20 onwards.

Select research projects for Government of India (Individual and team-leadership, secondary data and nation-wide primary survey ): **"Dynamics and Revival of Fallow Land, 'An assessment of the extent of food processing in various food Sub-sectors' 'Understanding the changes in the Indian Dairy sector and projecting Milk demand and supply' Role of Climate change and Agricultural Performance'), 'Problems and Prospects of Crop Insurance in India' 'Financial Implications of Use of Chemical Fertilizers along with Organic and Bio Fertilizers'**

**'A Policy Model for Open Market Operations of Wheat'**. Modeling of India's wheat market submitted to **Ministry of Food**, Government of India from NCAER in 2000.

Partners in collaboration 'Food and Nutrition Security': Lead Author in report from Himalayan Monitoring and Assessment Programme (HIMAP) of International Centre for Integrated Mountain Development (ICIMOD), 2016, 'Multilateral Comparisons of Agricultural Productivity among Developed and Developing Countries': **International cooperation led by USDA 2012-13, 'Problems of water and food insecurity in the Indian part of the Koshi river basin' ICIMOD, Kathmandu 2014-16,**

'Growing Rural-Urban disparity: Case Study of the Himalayan State of Uttaranchal': A Secondary and Primary survey-based study on the development of Hilly state submitted to **NIRD, Ministry of Rural Development, Government of India in 2006.**

**Quick studies for Policy support invited by highest official of Ministry of Agriculture GOI: Forecasting Prices of Select Pulses in Growing States 2017 April-Aug: expected bounds" Assessment of Outlook in Drought 2012: 'Likely impact of the drought (deficient rainfall during first two months of the monsoon 2012) on agricultural production', Panelist in Technical Session "Doubling Farmers' Income" in National Workshop on 'INDIAN AGRICULTURAL OUTLOOK the 2017 Rabi Season and Doubling Farmers' Income', concluding remarks at International Seminar on**

**Approaches and Methodologies for private food grain stock measurement** from 9-11 November, 2016 at New Delhi, as part of projects Agricultural Market Information System (AMIS), organized by FAO and Ministry of Agriculture & Farmers Welfare, Government of India. 'Beyond Farming: Entrepreneurship, enterprise and Industry' Presented at Workshop jointly organized by the Indira Gandhi Institute for Development Studies (IGIDR), and the **International Food Policy Research Institute (IFPRI)** on 'Harnessing Opportunities to Improve Agri-Food Systems' on July 24-25, 2014 at Committee Room 1, NASC Complex, Pusa, New Delhi.

**Awards:** National Scholarship from Union Ministry of Education, UGC award of National Scholarship, Junior Research fellowship from Indian Statistical Institute (ISI), Teacher Fellowship from UGC, NET for University Lectureship, D. K. Desai award from Indian Society of Agricultural Economics, Rashtriya Gaurav award from the India International Friendship Society 2013, Medal finalist in competition at the Fifth Annual Global Development Conference, January 28-30, 2004, Interview in 2015 in the 5<sup>th</sup> Global Economic Summit (<http://www.ges2015.in/appropriate-policy-decisions-lead-way-to-sustainable-agriculture>) of **World Trade Centre Mumbai and All India Association of Industries.**

## Publications

### Book

1. *"India's Agricultural Marketing - Market Reforms and Emergence of New channels"* Springer 2013.
2. *The Future of Indian Agriculture: Technology and Institutions*, an edited Volume from IEG, (Eds) Nilabja Ghosh and C.S. Sekhar - Academic Foundation, 2013.
3. *Glimpse of Indian Agriculture*. Forthcoming Book (Eds.) Parmod Kumar, Vijay Paul Sharma, Nilabja Ghosh, D.K. Grover and Usha Tuteja - Oxford, 2018.
4. *A Policy Model for Open market Operations of Wheat*, published by National Council of Applied Economic Research, New Delhi, 2001: Authors-Anil Sharma, Nilabja Ghosh, Parmod Kumar.
5. *Growing Rural urban Disparity in India: Uttarakhand* published by National Institute of Rural Development, Hyderabad 2008: Authors- Nilabja Ghosh, Sabyasachi Kar and Suresh Sharma.

## Media

1. "Food processing can drive rural and agricultural development in India", September 29, 2023. <https://www.tpci.in/indiabusinesstrade/blogs/food-processing-can-drive-rural-and-agricultural-development-in-india/>
2. "Post-COVID, the Indian economy has to make smart choices", **June 8, 2021**, <https://www.tpci.in/indiabusinesstrade/blogs/post-covid-the-indian-economy-has-to-make-smart-choices/>
3. "Year Of Promises And Challenge", 11th January, 2021. <https://www.businessworld.in/article/Year-Of-Promises-And-Challenge/11-01-2021-364128/>
4. "Waiting for the wheat harvest in times of a pandemic". Business Line, 27th April, 2020. <https://www.thehindubusinessline.com/economy/agri-business/waiting-for-the-wheat-harvest-in-times-of-a-pandemic/article31442397.ece>
5. "Appropriate decisions could lead to bi-directional rural-urban migration". Trade Promotion Council of India, 13th April, 2020. <https://ibt.tpci.in/blogs/appropriate-decisions-could-lead-to-bi-directional-rural-urban-migration/>
6. "PM-Kisan: A small step in the right direction", February 07, 2019. <https://www.thehindubusinessline.com/todays-paper/tp-opinion/article26199656.ece>
7. "Union Budget 2018: Appease The Angry Farmer" Media event on pre-budget discussion published in Business World, 31st January 2018.
8. Participated as panel member in **budget session** at a TV channel (NewsX), the session includes Mr Shaktikanata Das, Prof Virmani and eminent financial experts and journalists, Feb, 1, 2018
9. "Securing Farmer's Welfare: Reality to Vision" Yojana, Vol. 61, July 2017
10. 'Getting the prices and production right: Agriculture in cross-fire' published on Web-portal in *The Dialogue* May6, 2017
11. "Processing Spices for developing India's Agriculture" forthcoming in Magazine titled *Food & Beverage News magazine*
12. "Farm policy needs to change with the times" *Business Line*, January 8<sup>th</sup> 2016.
13. "What Bharat wants" (Co-author with Dr. Amarnath Tripathi) *Business Line*,

20<sup>th</sup> October, 2015.

14. "Rural jobs scheme — good in parts" *Business Line*, 12th March 2015.
15. "Know your Onion" in *Business Line* on 1<sup>st</sup> January 2014
16. "The numbers game" in *Business Line* 29 June, 2014
17. "Weather forecasting: It's time to do it differently" in *Business Line*, July 9<sup>th</sup> 2013.
18. "Why India should or should not Ratify the TFA?", YOJANA (NEW DELHI), V.58, 2014(Sep, 2014): P.26-30.
19. "Green Shoots", *Business Line*, 15<sup>th</sup> July, 2015.
20. "FDI in retail is no monster" published in *Business Line* Saturday August 25, 2012 <http://www.thehindubusinessline.com/opinion/article3816581>
21. "Hard living in Himalayas" published in *Business Line* January 6, 2012
22. "Little reason for Comfort over Foodgrains output Estimates" published *Business Line*, Tuesday, February 22, 2011 <http://www.thehindubusinessline.com/opinion/article1477784.ece?homepage=true>
23. "Lebensmittelpreise in Asien" Television interview on Food price rise as the expert for two stories- one for ARD German TV and other for DW telecasted in European countries in German. <http://www.tagesschau.de/multimedia/sendung/nm1698.html>.
24. "Securing food for the teaming Millions: The State over Market in a Powerful nation" in *CNF World Focus* in May 2010.
25. "Is there a Global Food Shortage?- Private Stocks will boost food security" Appeared in *Economic Times* in feature FACE-OFF 2006.
26. 'Bad Debt' appeared in the magazine *HARDNEWS* as cover story in April 2008.
27. 'Risk management in Agriculture and India's search for a solution' in *India Economy Review* of the IIPM Think tank (on request).

## Published work in Journals and edited Books

Nilabja Ghosh, Mayanglambam Rajeshwor, Amritanshi Preeti (2022). Climatic Trends, Cropping Pattern Shifts, and Migration of Rice in India. *Economic & Political Weekly* (EPW) November 19, Vol LVII (47), pp- 35-45.

Nilabja Ghosh, M. Rajeshwor, Alka Singh, and Satarupa Chakravarty (2022). **A Data-Analytical Way of Estimating Rice Crop Yield: Economic and Water Related Causative Factors**. Book (Eds) by Krishna Vadrevu, Thuy Le Toan, Shibendu Shankar Ray and Chris Justice “*Remote Sensing of Agriculture and Land Cover/Land Use Changes in South and Southeast Asian Countries*”. Springer. <https://link.springer.com/book/9783030923648>

Nilabja Ghosh, M. Rajeshwor and Hrishabh Narayan (2021). **Economy’s response to Rainfall and Economic factors**. Working Paper No. 438, Institute of Economic Growth, Delhi. [http://iegindia.in/upload/profile\\_publication/doc-250821\\_152753WP438.pdf](http://iegindia.in/upload/profile_publication/doc-250821_152753WP438.pdf)

Chakravarty, Satarupa, M. Rajeshwor and Nilabja Ghosh (2021). **Understanding the production behavior of Indian Spices: A study of Coriander and Cumin**. *International Journal of Tropical Agriculture* Volume 39, Number (1-2) • 2021 : pp. 1-15  
ISSN: 0254-8755.  
[https://serialsjournals.com/abstract/27740\\_1\\_satarupa\\_chakravarty.pdf](https://serialsjournals.com/abstract/27740_1_satarupa_chakravarty.pdf)

Singh Alka, Satarupa Chakravarty, M. Rajeshwor, Nilabja Ghosh. (2020) **Food Production in Indo-Gangetic Plains: To Understand the Role of Water and Hydrology**. *International Journal of the Science of Food and Agriculture*, 4(4), 413-426.  
DOI: 10.26855/ijfsa.2020.12.008.  
<http://www.hillpublisher.com/UpFile/202011/20201120182424.pdf>

**“Towards One Agricultural Market in India: Does the ICT Help?”** Co-authors with M. Rajeshwor, Parmeet Kumar Vinit. *Digitalisation and Development Issues for India and Beyond*, Book (Eds.) by Dibyendu Maiti, Fulvio Castellacci, Arne Melchior. Springer Nature Singapore Pvt Ltd. 2020.

**‘Rainfall Implications for Food Production in India: When and Where’** Co-authors with M. Rajeshwor, Amritanshi Preeti, ISPRS- Informational Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. XLII-3/W6. 13-20. 10.5194/isprs-archives-XLII-3-W6-13-2019.

**“Accounting for the Diversity in Dairy Farming”**. *Economic & Political Weekly*, Vol. 54, Issue No. 18, 04 May, 2019.

**'Creating Unified Pulses Market to Benefit Farmers'**. Published in Agro-Economic Policy Briefs, Issue 11 June, 2019.

**'Fertilizer Use and Response of Crops'** Published in Indian Journal of Fertilizer' Vol.15 (10) October 2019.

Co-authors with Golam Rasul, Abdul Saboor, Prakash, Tiwari, Abid Hussain and Ganesh B. Chettri **"Food and Nutrition Security in the Hindu Kush Himalaya: Unique Challenges and Niche Opportunities**. Book (eds.) by Phillippus Wester, Arabinda Mishra, Aditi Mukherji, Arun Shrestha *"The Hindu Kush Himalaya Assessment: Mountain, Climate Change, Sustainability and People"*. Springer (2019).

**Land use and Productivity in Agriculture: Assessment and Forecasts**. Fertilizer Marketing News, Vol 49 (7), July (2018).

Ghosh Nilabja (2018) **"From Agricultural Growth to Agrarian Distress" Review of the Book "Indian Agriculture after the Green Revolution: Changes and Challenges"** Eds. By Binoy Goswami, Madhurjya Prasad Bezbaruah and Raju Mandal, Publisher: Routledge, Taylor & Francis Group, London and New York, 2018, in South Asia Economic Journal 19(1) 1-5, Research and Information System for Developing Countries & Institute of Policy Studies of Sri Lanka SAGE Publications (May, 29).

Co-author with Ananda Vadivelu (2018). **Emergence of New Channels for India's Agriculture Marketing**. Book (Eds) by General Editors: Sangeeta Verma and P. C. Both, Volume Editors: Vijay Paul Sharma, Parmod Kumar, Nilabja Ghosh, D. K. Grover and Usha Tuteja , *Glimpses of Indian Agriculture*, Ministry of Agriculture and Farmers Welfare, Oxford University Press.

Co-author with Vijay Paul Sharma, Parmod Kumar, DK Grover and Usha Tuteja (2018). **Overview of Emerging Trends in Indian Agriculture**. Book (Eds) by General Editors: Sangeeta Verma and P. C. Both, Volume Editors: Vijay Paul Sharma, Parmod Kumar, Nilabja Ghosh, D. K. Grover and Usha Tuteja , *Glimpses of Indian Agriculture*, Ministry of Agriculture and Farmers Welfare, Oxford University Press.

Ghosh Nilabja (2018). **Food Policy Transition in India**. Book (Eds) by General Editors: Sangeeta Verma and P. C. Both, Volume Editors: Vijay Paul Sharma, Parmod Kumar, Nilabja Ghosh, D. K. Grover and Usha Tuteja , *Glimpses of Indian Agriculture*, Ministry of Agriculture and Farmers Welfare, Oxford University Press.

Ghosh, Nilabja (2018). **Climate Change and Indian Agriculture: A Review**. Book (Eds) by General Editors: Sangeeta Verma and P. C. Both, Volume Editors: Vijay Paul Sharma, Parmod Kumar, Nilabja Ghosh, D. K. Grover and Usha Tuteja , *Glimpses of Indian Agriculture*, Ministry of Agriculture and Farmers Welfare, Oxford University Press.

Co-authors with Yogesh Bhatt and SS Yadav (2018). **What Restrains Demand for Crop Insurance in India**. Book (Eds) by General Editors: Sangeeta Verma and P. C.

Both, Volume Editors: Vijay Paul Sharma, Parmod Kumar, Nilabja Ghosh, D. K. Grover and Usha Tuteja.

**“Revisiting the Growth Patterns in Indian Agriculture Using Internationally Compatible Methodology”** (with co-authors), Published in edited Book *“Re-Visiting Agricultural Policies in the Light of Globalization Experience: The Indian Context”* Edited by Dinesh Marothia, Will Martin, A. Janaiah and C.L. Dadhich (2017), selected output of an inter-conference Symposium organized with support of International Association of Agricultural Economists (IAAE) by Indian Society of Agricultural Economics (ISAE) collaboratively.

Journal paper titled **“Do producers gain from Selling Milk?: An Economic assessment of Dairy farming in Contemporary India”** (with co-authors), Economic & Political Weekly, Vol. 52, Issue No. 25-26, 24 Jun, 2017.

Book chapter (2017) on **“Technological Options for Rice Farming in India: A Focus on the Eastern Region”** (with co-authors) in Book (Eds) by K N Bhatt and Pradeep Bhargava “System of Rice intensification” Studium Press (India) Pvt. Ltd. New Delhi

**“Understanding Demand, Supply and Price Behavior in the Dairy Sector: Using Official Indian Statistics”** (with co-authors) The Journal of Industrial Statistics published by Central Statistical Office (CSO), Government of India Vol 5 (2), September, 2016

**“Agriculture for producing both fuel and food: Optimism and prudence for India”** (with co-authors), in Indian Journal of Economics and Development, Vol. 11 (1), January-March, 2015.

**“Sustainability in Indian Agriculture”** chapter (with Anita Kumari) in book *Reviving Growth in India* (Eds Pradeep Agarwal), Cambridge University Press, 2015.

**“Linking farms with Consumers through Organized retail chains: Implication for producers”** Chapter in Book *Organised Retailing and Agri-Business: Implications of New Supply Chains on the Indian Farm Economy* (Eds) by N. Chandrasekhara Rao, R. Radhakrishna, R.K. Mishra and K. Venkata Reddy published by Springer, 2015

**“Are Crop forecasts useful for Policy? Assessing alternative methods”** (Nilabja Ghosh, Sangeeta Chakravarty, Yogesh Bhatt), Nilabja Ghosh and C.S.C. Sekhar (Eds) book The Future of Indian Agriculture, Academic Foundation 2013.

**“Promoting Entrepreneurship among Women in Agriculture”** in S. Banerjee, University of Calcutta, Kolkata, India; A. Chakrabarti, University of Calcutta, Kolkata, India (Eds.) *Development and Sustainability: India in a Global Perspective*, Springer 2013.

**“Organic farming in the north eastern hill region”** Chapter in an edited book ‘Agriculture and a Changing Environment’ (Eds. by Sumi Krishna) under the series Transitions in North Eastern India by Routledge-India

**“Do Asset poor Farmers gain from Market reforms?”** chapter in book *Agrarian change and small farmers* (Eds) by *KN Bhatt and Pradeep Bhargava* from G B Pant Social Science Institute, Allahabad (Concept Publishing Company Ltd)

**“The Food Vs Energy Security Debate over using Agriculture to Produce Bio-Fuels: A Time Series Regression Approach”** (with co-authors and as part of student Ph.D thesis), Proceedings of the National Conference on Recent Advances in Statistical and Mathematical Sciences and their Applications (RASMSA-2014), Kumaun University, Nainital.

**‘The Extent of Processing of Agricultural Products: Towards creating a Statistical Database in India’** (with co-authors) in The Journal of Industrial Statistics, Vol 2 Number 1 March 2013 published by CSO, Government of India.

**“The Trends in Temperature and Rainfall and the Possible Vulnerability of Indian Agriculture to Climate Change”** (with co-author) in Food Studies An interdisciplinary Journal Volume 2 Issue 4 2014, pp.41-59.

**‘Regulated marketing in India in the period of reforms: Redundant or useful?’** (with co-author) in the Journal of Economics and Development, Vol10 (2), 2014 :105-116.

**“Effect of Trade liberalization on Volatility: The experience of Indian Agriculture”** (with co-author) in International Journal of Economic Policy in Emerging Economies (IJEPEE), Volume 3, No.3, 2010, Geneva, Switzerland (refereed).

**“Organizational forms and Market intermediations: A Study on Rural Women entrepreneurs in India”** in Indian Journal of Labour Economics 2010., Vol. 53, No. 2, special issue

**Review of book** ‘Transforming Indian Agriculture-India2040’ edited by Marco Ferroni in South Asia Economic Journal 14 (2) 2013 SAGE publications.

**“Inequalities of Income Opportunity in a Hilly State: A study of Uttarakhand ”** (Nilabja Ghosh, Sabyasachi Kar and Suresh Sharma) in F. Ram, T.V. Sekhar et. al. (Eds.) Population, Health and Development in Uttarakhand, Academic Foundation, Delhi, 2010).

**“Education for all in rural Himalayas: a study of Uttarkhand”.** (Suresh Sharma and Nilabja Ghosh), F. Ram, T.V. Sekhar et. al. (Eds.) Population, Health and Development in Uttarakhand, Academic Foundation, Delhi, 2010.

**“Population, Employment and Poverty: South Asian Experience”** (Joint with B.N. Goldar and Arup Mitra) published in Moneer Alam (ed) book Demographics, Employment and Old Age Security: Emerging Trends and Challenges in South Asia, New Delhi 2010: Macmillan Publishers.

**“Agricultural prices and Futures trading: Interactions and the transfer of News”** (Joint with Sangeeta Chakravarty) published in Madhoo Pavaskar & Nilanjan Ghosh edited book Commodity Derivative Markets: Opportunities and Challenges”, 2010 published by TAER.

**“Volatility and Price Discovery in Indian Wheat Market”** (Nilabja Ghosh, Sangeeta Chakravarty, Shailesh Kumar) in a Book *Effects of Futures markets on Agricultural Commodities* edited by Madhoo Pavaskar and published by TAER 2009.

**“Measuring the Efficacy of Targeted Public Programmes: Public Works Programmes in India”** (Nilabja Ghosh and B. Guha Khasnobis) article in Book Food Security Indicators, Measurement, and the Impact of Trade Openness, edited by Guha Khasnobis, Acharya and Davis (by ICSSR, UNU-WIDER and FAO), Oxford University Press, 2008.

**“Organic Farming in North-east Hill Region in India”** article in the book Biodiversity and Quality of Life edited by Nirmal Sengupta and Jayanta Bandyopadhyay and published by Macmillan New Delhi 2005.

**“Impact of Trade Liberalization on Returns from Land: A Regional Study of Indian Agriculture”**, article in the book The WTO, Developing countries and the Doha development Agenda edited book published by Palgrave Macmillan June 2004.

**“Enterprise among Farm Women in India and Understanding their Constraints: An exploration of NSSO’s Household data”** article included in Book *‘Empowerment of Women through Entrepreneurship’* edited by L. Rathakrishnan, Gyan Publishing House, New Delhi, 2008.

**“Trade Liberalization and Diversification in Indian Agriculture”** article in Book *Growth, equity Environment and Population* edited by Kanchan Chopra and C, H, Hanumantha Rao, SAGE, 2007.

**“A Green Revolution for the Women in Farm households”** in Special Number (Theme: How to bring about a second green revolution in India) Agricultural Situation in India, August 2007 published by Ministry of Agriculture, Government of India.

**“Progress of School Education, Gender and Imbalances: The case of Uttarakhand state in India”**, (joint with Suresh Sharma) in Demography India, Vol. 36, No. 2 July-December 2007 (refereed)

**“Theory and Practice of Agricultural Indicators”** Review article in Economic and Political Weekly Vol XLI No 34 August 26, 2006.

**“Organic Farming in North-east Hill Region in India”** article in the book Biodiversity and Quality of Life edited by Nirmal Sengupta and Jayanta Bandyopadhyay and published by Macmillan New Delhi 2005.

**“Trade Liberalization and Diversification in Indian Agriculture”** in Foreign Trade Review (Journal of the Indian Institute of Foreign Trade) Vol XL No.2 July-September 2005.

**“Impact of Trade Liberalization on Returns from Land: A Regional Study of Indian Agriculture”**, article in the book The WTO, Developing countries and the Doha development Agenda edited book published by Palgrave Macmillan June 2004.

**“Reducing dependence on Chemical fertilizers and its Financial Implications for Farmers in India”** in Ecological Economics (Elsevier Journal) Vol 49/2, pages 149-162 2004.

**“Use of Organic Methods in Indian Agriculture”** in Agricultural Situation in India (Journal of the Ministry of Agriculture, Government of India) October 2004.

**“Promoting Bio-fertilizers in Indian Agriculture”** published in Economic and Political Weekly Vol.XXXIX No. 52 December 25 2004.

**“Revenue Estimates for a Crop-Specific Agricultural Tax”**, published in Economic and Political Weekly Vol XXXVII No13 March 30 2002 (Indira Rajaraman and Nilabja Ghosh).

**“Infrastructure, Cost and Labour Income in Agriculture”** in Indian Journal of Agricultural Economics Vol.57 No.2 2002.

**“Development of Communication Facilities and Agricultural Performance in India”**, published in Asian Economic Review, Volume 43, No. 2, 2001 (Nilabja Ghosh).

**“Supply Responses of Food grains and Policy Action: A Model with Rational Expectations Hypothesis”** (joint with Chiranjib Neogi and *award winning*) in Indian Journal of Agricultural Economics, Vol 50, No. 2, 1995.

**“Role of Fertiliser and Irrigation in determining Cropping Intensity”** paper published in Indian Journal of Agricultural Economics, Vol. 45, No. 4, 1990 (Nilabja Ghosh) (refereed)

## Select invited Talks

Presented paper on Factors behind Returns from Indian Agriculture and Efficiency of Resource Use” at Two-day Workshop on “75 Years of Productivity Growth in India” at Delhi School of Economics, 24-25th February 2023.

Presented on “A Revolution in Process: ICT penetration into Indian Agriculture” at Brown Bag series in Institute of Economic Growth (IEG), 25th January 2023.

Presented on “Indian Agriculture: Green to Digital Revolution” at International Webinar on “Unfurling Indian Economy Growth, Transformation & Sustainability, 15th - 17th December 2022, organized by department of economics university of Kerala (virtual).

Presented on “Digitalization for Food Security and Farmers’ Welfare” at ICSSR sponsored Workshop on ‘Information Communication Technologies and Economics’, November 7th, 2022 organized by Centre for Development Studies, Kerala (Virtual).

Presented on IEG FASAL/RTISA hybrid model under Chairmanship of **AS&FA, DA&FW** on 12.08.2022 (Friday) at 12.30 PM in Conference Room No. 138, Krishi Bhawan.

Presented on IEG FASAL/RTISA hybrid model under the Chairmanship of Secretary, DA&FW on 30 July, 2022, 3PM at Krishi Bhawan.

Presented on Forecasting Agricultural Output Using Space, Agro-meteorological and Land Based Observations (FASAL)/Real Time Information System of Agriculture Sector (RTISA) at National Conference on Crop Production estimation on 13th July, 2022, at NASC. PUSA, New Delhi.

Presented on “Report of the Subgroup 4 “Crop Area And Yield Modelling & Futuristic Approaches For Crop Forecasts” as a Team leader in the meeting held on 21st October for finalization of SoP of the Real Time Crop Production Forecasting System (RTCPFS) at 2nd meeting of the Task Force on 26th October, 2021 at Krishi Bhawan, New Delhi

Presented on “Early estimate of Crop Yield: FASAL/RTISA Model with Economic and Weather Variables” as invited by IMD, under the Chairmanship of Secretary, Dr. M. Rajeevan, Ministry of Earth Science, GoI on 4th June, 2021 at 11.30 A.M. through online VC.

Invited solo lecture “**Agro-Centric Economic Development in Post-Covid India**” at webinar series "Ride the Tide of COVID with a Ray of Hope" attended by a large number of (about 300) students and faculty member of colleges under University of Calcutta and organized by Surendranath (Rippon) College Kolkata on 16<sup>th</sup> June, 2020. <https://www.youtube.com/watch?v=HpXYEbi0SkE>

Presented on “**Real Time Information System for Agriculture Sector (RTISA)**” at a meeting “Creation of a Real Time Information System of Agricultural Sector” held under the Chairmanship of Secretary (AC & FW) on 6/09/2019 at Krishi Bhawan, Delhi.

Presented on “Data Analysis and Real-Time Forecasting for Agriculture Sector” at 27<sup>th</sup> April, 2020 in (Webinar) IFFCO Kisan Sanchar Limited, Delhi.

Presented on “**Econometric Modeling of Acreages under Major Food Grain Crops Factoring in the Spatial Effects of Rainfall**” in Eighth International Conference on Agricultural Statistics (18-21 November 2019) at Ashok Hotel, New Delhi.

Presented Paper “**Productivity of Land in India’s Agriculture : Measurements and Valuation**” in Conference on ‘Measuring China’s Agricultural Factor Productivity and Its International Comparison’ 10-11 June 2019, School of Advanced Agricultural Science, Peking University, China.

Presented “**CHAMAN Econometric Model: Experimental forecasting for Horticulture crops**” at Workshop along with Release of Reports by Secretary, Agriculture, Coop. & Farmer’s Welfare on 11<sup>th</sup> -12<sup>th</sup> April 2018, Assam Administrative Staff College, Jawaharnagar, Khanapara, Guwahati.

Presented on “**land use and productivity in agriculture: Assessment and forecast**” at FAI training programme on Business Intelligence, Forecasts and Planning for the Fertilizer Sector, 10-13 June, 2018, for Senior Officers at Jim Corbett National Park, Ramnagar, organized by The Fertilizer Association of India.

Participated and Panelist a session in National Conference on Reforming Agrarian Economy: Role of Insurance, 21<sup>st</sup> July 2018, India International Centre, Delhi, organized by Rashtriya Jagriti Sansthan and South Asia Politics.

Participated and presented on paper “**Land Use and Economy of Bihar's Kosi Basin**” in the 4<sup>th</sup> Asian Conference on Geography at 6-10 December, 2018, Guangzhou, China.

Invited and participated panel discussion on '**Farmer's Distress in India**' 22nd January, 2019, as part of its Mukarji Memorial Dialogue Series organized by The St. Stephen's Debating Society, Delhi University.

Paper presented on '**Rainfall Implications for Food Production in India: When And Where**' at ISPRS WG III/10, GEOGLAM, ISRS Joint International Workshop on "Earth Observations for Agricultural Monitoring" 18-20 February 2019 in MNCFC, PUSA New Delhi.

Paper presented co-authors with (Richard Nehring, Jon McFadden, Matthew Liebman, Wendong Zhang and Yu Sheng on '**Constructing Rigorous Relative Price Indices of Agricultural Land in the Developed and Developing World**' at Southern Agricultural Economics Association (SAEA) 51st Annual Meeting Program February 2-5, 2019 Sheraton Birmingham Hotel Birmingham, AL.

'**Mitigating Global warming: Can Agriculture help?**' lecture delivered at St. Stephens College, Delhi, on the invitation of Economics Society of St. Stephen's College.

'**Agriculture as a sink: A Compatible solution for India**' presentation in a seminar on Climate change organized by TAER and INSEE at the TERI University on 11<sup>th</sup> February 2011.

'**Food inflation**' talk at a **Panel discussion** at the Delhi School of Economics along with Prof Jayati Ghosh and Prof Surjit Bhalla 2011.

"**NREGA**" talk at A two-day national conference on Gender, Empowerment and the State was held at the Institute of Development Studies Kolkata (IDSK) on December 10-11, 2009.

"**Empowering the Women in Agriculture: Entrepreneurship as a way**" presented at the First Northern Regional Social Science Congress held at Jaipur, to be published by ICSSR, India.

"**Rice Farming in the Indian Koshi Basin**" (Nilabja Ghosh, Amarnath Tripathi, Ruchin Verma, M. Rajeshwor) presented at the consultation *System of Rice Intensification for increasing productivity and ecological security* by G.B Panth Social Science Institute, Allahabad in 2015, expected to be published in a book.

## Select presentations in International forums

Presented on Land use Changes in India's IGP: Contribution of Economics and Climate at "International Workshop On Land Cover/Land Use Changes, Forestry, and Agriculture in South/Southeast Asia" 8, 9, 10th August, 2022 at Cambodia organized and part of NASA Program

Paper presented on "Inter-sectoral integration for food and nutrition security: A cooperative approach" at ICIMOD's International Conference On "Resilient Hindu Kush Himalaya" 3-6 December, in Kathmandu.

**'Understanding Commodity price behaviour in Agriculture: A model with volatility'**, (presented by Co-author) Paper presented at World Finance & Banking Symposium Nanyang Technological University, Singapore December 12-13, 2014.

"Controlling Climate change" presented at the *International Economic Association 16th World Congress* held in Tsinghua University Beijing, China, on July 4-8, 2011 (with funding from IEA).

"Indian Himalayan regions: The status of Demography and Development" (Nilabja Ghosh and Suresh Sharma) presented at an international forum in **ICIMOD, Kathmandu**.

"Growth and Efficiency of Resource use in Indian agriculture: Towards Measurement and Comparison" presented at the International Society for Ecological Economics (ISEE) conference 2010 in Germany.

"Food Security of Women in Agriculture" Joint paper presented at *UNU-WIDER Seminar on Gender and Food security Accra* in May 2007.

"Public Intervention to promote an Eco-friendly Technology: Bio-fertilizers in Indian Agriculture" presented at Conference of the *U.S. Society for Ecological Economics (USSEE) in Saratoga Springs, USA* in May 2003

"Public Intervention to promote an Eco-friendly Technology: Bio-fertilizers in Indian Agriculture" presented at Louisiana State University (LSU) at Baton Rouge in USA, Agricultural Department

'Capital use in Indian Agriculture: Composition and Intensity' (Nilabja Ghosh, Anita Kumari and M. Rajeshwor), *International Economic Association, 17<sup>th</sup> World Congress, Dead Sea Jordan*, 6-10 June 2014,.

"Availability of Food and Nutrients in India: The Food Balance Sheet Approach" presented by co-author Ankush Agrawal in Sixth International Conference on

Agricultural Statistics ICAS-VI, **Rio de Janeiro, Brazil** on 23-25 October 2013 <http://eventos.ibge.gov.br/en/icas2013/programa-da-conferencia/programa-detalhado>