

Curriculum Vitae

PRADYOT RANJAN JENA



PERSONAL INFORMATION

Address: National Institute of Technology Karnataka, Surathkal.
Telephone: +91 7899495351
Email: jpradyot@gmail.com
Citizenship: Indian
Date of Birth: 21 July 1978
Sex: Male
Marital Status: Married

EDUCATIONAL QUALIFICATION

Ph.D. Economics, Indian Institute of Technology (IIT) Kanpur, 2002 – 2007.
Dissertation: “Impact of Trade Liberalization on Environment: The Evidence from India”.

M.Phil. Economics, University of Hyderabad, 2000 - 2002
Dissertation: “Integration of Financial Markets in India: An Empirical Analysis” (Passed with 1st class).

M.A. Economics, University of Hyderabad, 1998 - 2000
Special Subjects: Micro-economics, Macro-economics, Industrial Organization, Econometrics, Development Economics, International Finance, Environmental Economics (Passed with 1st class).

EMPLOYMENT HISTORY

Duration	Position held	Institution	Major responsibility
May 2015 – till date	Associate Professor	National Institute of Technology (NIT) Karnataka, Surathkal	Teaching BTech, MTech, MBA and PhD students, Conducting independent research, Obtaining external project funding
2013 Jan – April 2015	Agriculture and Development Economist	International Maize and Wheat Improvement Center (CIMMYT), Nairobi.	Poverty and hunger eradication in Sub-Saharan Africa through innovating advanced technologies in agriculture, especially in Maize and Wheat enhancing technologies. Design research projects, develop methodologies, collect and analyze primary data and publish journal papers.
2007 Sept – 2012 Dec	Senior Research Fellow	Institute for Environmental Economics and World Trade (IUW), Leibniz University of Hannover in Germany	Teaching Master level and undergraduate courses, Developing independent projects, raising funding for them, empirically analyzing the primary data, supervising MSc students
2006 July – 2007 Aug	Assistant Professor	National Institute of Technology (NIT) Rourkela	Teaching and Research

AREA OF SPECIALIZATION

- **Development Economics, Agricultural Economics**

EXPERTISE IN QUANTITATIVE RESEARCH METHODS

I have been working with quantitative methods of data analysis particularly econometric modeling right through my PhD and beyond. The specific quantitative techniques I am experienced with are –

- Micro-econometric modeling
- Randomized Control Trial analysis
- Impact evaluation analysis

PROJECT UNDERTAKEN/ RESEARCH GRANT

Table: Project description

Time period	Project title	Responsibility	Funding agency
From May 2019 till present	Adaptation of Climate Smart Agriculture Practices: Challenges and Opportunity for Indian Smallholder Farmers	Principal Investigator	SPARC Project-Ministry of HRD, Govt. of India
From April 2019 till present	Moving towards Climate Resilient Agriculture: Understanding the Factors Influencing Adoption in India and Japan	Project leader from India	ICSSR-JSPS, a Indo-Japan joint research project
From June 2018 till present	Coffee Certification and Food Security with special reference to Gender sensitiveness in Araku valley, Andhra Pradesh	Project leader	Institute for Environmental Economics and World Trade, Leibniz University of Hannover, Germany
From April 2018 till present	A Study of Adaptation to Technological Innovation in Agriculture to Mitigate Climate Change Effects and its Impact on Rural farmers	Principal investigator	ICSSR, India
From January 2013 till April 2015	Assessment of Maize situation, outlook and investment opportunities in Southern and Eastern Africa	Project leader	CGIAR
From January 2014 till 2017	Conservation Agriculture and smallholder farmers in Southern and Eastern Africa (CASFESA)	Project leader in Kenya	IFAD
From June 2013 till December 2015	Assessing the economic impacts of Maize Lethal Necrosis (MLN) in Kenya and Tanzania	Project leader	Government of Australia
From 2011 to December 2013	Assessment of Certification System on Farmer and Trade Levels	Project advisor	Federal Ministry of Education and

	for Horticultural Products in Thailand (WEGA)		Research, Germany.
2009-2012	The Impacts of Forest Coffee Certification Schemes on Socio-economic Sustainability: Case studies from Ethiopia, India, and Nicaragua (COFEIN)	Project leader	Gottfried Leibniz University of Hannover
2008-2010	Evaluating the Socio-economic benefits of Geographical Indications (GIs): A Case Study of Basmati Rice in India	Project leader	Poverty, Equity and Growth Network (PEGNet), Kiel Institute for the World Economy

COURSES TAUGHT

- Macroeconomic Theory and Policy
- Micro Economics
- Engineering Economics
- Applied Econometrics
- Economic growth and inequality
- World Trade
- Trade and Environment: Theory and Evidence

PhD THESIS SUPERVISION (Completed)

- Assessing the Impact of Climate Change on Agriculture: Empirical Evidence from a South Indian State. PhD Thesis Completed at NIT Karnataka by Rajesh Kalli

PhD THESIS SUPERVISION (Ongoing)

- Estimation of Vulnerability to Poverty and Assessing Impact of Welfare Measures on Vulnerability: A Study from an Eastern Indian State. PhD Thesis Ongoing at NITK by Sunil Khosla
- Climate Change Adaptation and Rural Livelihoods in Odisha. PhD thesis ongoing by Purna Chandra Tanti at NIT Karnataka
- Study on Multi Stakeholder Framework Evaluation to measure Multi Dimension Key Performance Indicators and to improve the Performance of Major Sea Ports in India. PhD thesis ongoing at NITK by Prathivi T N

MSc THESIS SUPERVISION

- Integration of smallholders in the coffee value chain: A case study from India. Thesis submitted at Leibniz University of Hannover by Sabina Karki (2012).
- Effekte der Zertifizierung auf die ländliche Entwicklung. Thesis submitted to Leibniz University of Hannover by Andreas Schiller (2011).
- Impact of Garden Coffee Certification on Small-Scale Producers: A Case Study in Oromia Region of Ethiopia Thesis submitted to Leibniz University of Hannover by Bezawit Beyene (2010).
- The Impact of Coffee Production on Nepali Smallholders in the Value Chain. Thesis submitted to Leibniz University of Hannover by Rishi Kattel (2009).

JOURNAL PUBLICATIONS

1. P.R. Jena, R. Majhi, R. Kalli, S. Managi and B. Majhi (2021) Impact of COVID-19 on GDP of major economies: Application of the artificial neural network forecaster. *Economic Analysis and Policy*, **Volume 69**, **Pages 324-339**.
2. Pradyot Ranjan Jena, H. De Groote, B. P. Nayak & A. Hittmeyer (2021). Evolution of Fertiliser Use and its Impact on Maize Productivity in Kenya: Evidence from Multiple Surveys. *Food Security*, volume 13, pages95–111
3. P. Tanti, I. Srujana and P. R. Jena (2020). Can Increase in the Share of Renewable Energy in Economic Growth Shift Turning Point of EKC? Evidence from Time-series Analysis in India. *Journal of Environmental Accounting and Management*, Volume 8, Year 2020, Pages 255-264.
4. B. P. Nayak, **Pradyot Ranjan Jena**, S. Chaudhury (2020). Public Expenditure Effectiveness for Biodiversity Conservation: Understanding the Trends for Project Tiger in India. *Journal of Forest Economics*. Vol. 35: No. 2-3, pp 229-265.
5. Khosla, Sunil, and **Pradyot Ranjan Jena** (2019). Switch in Livelihood Strategies and Social Capital Have a Role to Play in Deciding Rural Poverty Dynamics: Evidence from Panel Data Analysis from Eastern India. *Journal of Asian and African Studies*, <https://doi.org/10.1177/0021909619868243>
6. Rajesh, Kalli, and **Pradyot Ranjan Jena** (2019). Impact of Climate Change on Crop Yield: Evidence From Irrigated and Dryland Cultivation of Semi-Arid Region in India. *Journal of Environmental Accounting and Management*.

7. **Pradyot Ranjan Jena** (2019) Can minimum tillage enhance productivity? Evidence from smallholder farmers in Kenya. *Journal of Cleaner Production*. 218, 465-475
8. **Pradyot Ranjan Jena** and Ritanjali Majhi (2018). An application of artificial neural network classifier to analyse the behavioural traits of smallholder farmers in Kenya. *Evolutionary Intelligence*, Doi.org/10.1007/s12065-018-0180-2 (SCOPUS)
9. **Pradyot Ranjan Jena** (2018). Does Trade Liberalization create more pollution? Evidence from a panel regression analysis across the states of India. *Environmental Economics and Policy Studies*, DOI.10.1007/s10018-018-0217-x(2018) (SCOPUS)
10. Bhatnagar, V. Majhi, R. and Jena, P.R. (2018). Comparative Performance Evaluation of Clustering Algorithms for Grouping Manufacturing Firms. *Arabian Journal of Science and Engineering*. 43(8), 4071-4083
11. Pradyot Ranjan Jena (2018). Socio Economic Implications of Food Safety Standards in India. *World Food Policy*. Vol 4 (2). doi: 10.18278/wfp.4.2.8
12. **Pradyot Ranjan Jena** and Ulrike Grote (2017). Fairtrade Certification and Livelihood Impacts on Small-scale Coffee Producers in a Tribal Community of India. *Applied Economic Perspectives and Policy*. 39(1), 87-110. (SCOPUS)
13. **Pradyot Ranjan Jena**, Till Stellmacher, Ulrike Grote (2017). The impact of coffee certification on income among smallholders in Jinotega, Nicaragua. *Environment, Development and Sustainability*. 19(1), 45-66. (SCI)
14. S. Karki, **Pradyot Ranjan Jena** and U. Grote (2016). Fairtrade Certification and Livelihoods: A Panel Data Analysis of Coffee Growing Households in India. *Agricultural and Resource Economics Review*, 45 (3), 436 – 458. (SCOPUS)
15. M. Jaleta, M. Kassie, K. Tesfaye, T. Teklewold, **Pradyot Ranjan Jena**, M. Paswel and O. Erenstein (2016). Resource saving and productivity enhancing impacts of crop management innovation packages in Ethiopia. *Agricultural Economics*. 47, 513-522. (SCI)
16. D. B. Rahut, A. Ali, N. B. Chhetri, B. Behera and **Pradyot Ranjan Jena** (2016). Access to Safe Drinking Water and Human Health: Empirical Evidence from Rural Bhutan. *Water Science and Technology: Water Supply*. 16(5), 1349-1360 doi: 10.2166/ws.2016.063 (SCI)
17. Dil Bahadur Rahut, **Pradyot Ranjan Jena**, Akhtar Ali, B. Behera and N.B. Chhetri (2015). Rural Nonfarm Employment, Income, and Inequality: Evidence from Bhutan. *Asian Development Review*, Vol. 32, No.2, 1 -30. (SCOPUS)

18. **Pradyot Ranjan Jena**, R. Majhi and B. Majhi, (2015). Development and Performance Evaluation of a Novel Knowledge Guided Artificial Neural Network (KGANN) Model for Exchange Rate Prediction. *Journal of King Saud University – Computer and Information Sciences*, Elsevier, Vol. 27, No.4, 450-457 (SCOPUS)
19. **Pradyot Ranjan Jena**, C. Ngokkuen, D. B. Rahut, U. Grote, (2014). Geographical indication protection and rural livelihoods: insights from India and Thailand. *Asian Pacific Economic Literature*, Vol. 29, No.1, 174-185. (SCOPUS)
20. T. Kindie, M. Jaleta, **Pradyot Jena** and M. Mutenje, (2014). Identifying Potential Recommendation Domains for Conservation Agriculture in Ethiopia, Kenya, and Malawi. *Environmental Management*, 55(2), 330 – 46 (SCI)
21. **Pradyot Ranjan Jena**, U. Grote, (2012). Impact evaluation of traditional Basmati rice cultivation in Uttarakhand State of Northern India: What implications does it hold for Geographical Indications? *World Development*, 40, 1895-1907. (SCOPUS)
22. **Pradyot Ranjan Jena**, B. Beyene, T. Stellmacher and U. Grote, (2012). The Impact of Coffee Certification on Small-Scale Producers' Livelihoods: A Case Study from the Jimma Zone, Ethiopia. *Agricultural Economics*, 43(4), 427-438 (SCI)
23. **Pradyot Ranjan Jena**, U. Grote (2010). Changing Institutions to Protect Regional Heritage: A Case for Geographical Indications in the Indian Agrifood Sector. *Development Policy Review*, 28(2), 217-236 (SCOPUS)
24. **Pradyot Ranjan Jena**, U. Grote (2008). Growth–trade–environment nexus in India. *Economics Bulletin*, 17(11), 1-11 (SCOPUS)
25. S. Managi, **Pradyot Ranjan Jena**, (2008). Environmental productivity and Kuznets curve in India. *Ecological Economics*, 65, 432-440 (SCI)
26. S. Managi, **Pradyot Ranjan Jena**, (2007). Productivity and Environment in India. *Economics Bulletin*, 17(1) 1-14. (SCOPUS)
27. B. Rath, **Pradyot Ranjan Jena** (2006). Growth Determinants of Orissa and their Implications for Future Development of the State. *Indian Journal of Agricultural Economics*, 61(2), 200 - 17. (SCOPUS)
28. Pradyot RanjanJena, B. Rath and N. Sahu (2005). Impact of Trade Liberalization on Environmental Pollution: The Indian Experience. *International Journal of Environment and Development*, 2(2), 253-70.

29. Pradyot Ranjan Jena, B. Rath (2004). Trade-Environment Linkages: Review of Theory and Evidence. *International Journal of Environment and Development*, 1(2), 149-68.
30. Pradyot Ranjan Jena (2004). Integration of Financial Markets in India: An Empirical Analysis. *Indian Journal of Economics and Business*, 2004, 3, 63-77.
31. Pradyot Ranjan Jena (2003). Financial Market Integration in India: A Cointegration Approach. *ArthaVijnana*, Vol. XLV, Nos. 1-2, March-June, pp.42-53.

BOOK PUBLICATIONS

1. **Pradyot Ranjan Jena** (2018). *Impact of Economic Growth and Trade Liberalization on Air Pollution*. LAP LAMBERT Academic Publishing.

BOOK CHAPTERS

1. Fair Trade, Environmental Labels, Bans and Ecosystem Services (with Ulrike Grote), In *Ecosystem Services and Global Trade of Natural Resources*. Routledge: Taylor & Francis Group. 2011.
2. Certifying Coffee Cooperatives in Ethiopia, India and Nicaragua: How Far Do Small-scale Coffee Producers Benefit? In *Fair Trade and Organic Agriculture: A Winning Combination?* CABI. 2017

SELECTED CONFERENCE PROCEEDINGS/PRESENTATIONS

1. **Pradyot Ranjan Jena** and Sunil Khosla (2019). Role of Direct Employment Scheme and Health Policy on Household Vulnerability to Poverty: Empirical Evidence from Eastern Rural India. Presented at PEGNet Conference “Promoting social, economic and socio-political development through social protection”, Bonn, Germany, September 9-10, 2019.
2. **Pradyot Ranjan Jena** (2019). Sustainable Agriculture in Development Countries: What Do We Know from Evidence? Presented at National Conference on Inclusive Green Growth in India: Path Way to Sustainable Development. January 18-19, 2019 at Utkal University, Bhubaneswar, India.
3. Prathvi TN, R. Majhi and **Pradyot R. Jena** (2019). Study on Port Performance dimensions and evaluation for Indian Major Sea Ports –A Conceptual Model. Accepted for presentation at the 27th Annual Conference of the International Association of Maritime Economists (IAME 2019 Conference), Athens, Greece, from 25th to 28th June 2019. (**Main Supervisor**)

4. Sunil Khosla, **Pradyot Ranjan Jena** (2019). Escaping and Falling into Poverty in Rural Odisha: Empirical Evidence from Panel Data. Presented at 8th International Engineering Symposium - IES 2019 during March 13-15, 2019, Kumamoto University, Japan. (**Main supervisor**).
5. **Pradyot Ranjan Jena** (2019) Can organic certification Improve smallholder Livelihoods? An Empirical study from Southern India. Presented at the 2nd International Conference on Business, Economics and Sustainable Development during January 17-18, 2019 at **TERI School of Advanced Studies Campus, New Delhi, India**.
6. Purna Chandra Tanti and **Pradyot Ranjan Jena** (2019). Agricultural adaptation to climate change in Karnataka: An empirical analysis. Presented at the 2nd International Conference on Business, Economics and Sustainable Development during January 17-18, 2019 at **TERI School of Advanced Studies Campus, New Delhi, India**. (**Main supervisor**).
7. Rajesh Kalli and **Pradyot Ranjan Jena** (2018). Measuring the Impact of Climate Variability on Rice and Finger Millet: Empirical Evidence from a Drought Prone Region of India. Presented at 10th International Conference on Agricultural Economist during July 28-August 2, 2018 at Vancouver, Canada. (**Main supervisor**).
8. **Pradyot Ranjan Jena** (2018) Livelihood Improving Impacts of Coffee Certification Programs: An Empirical Study from Araku Valley, India. Presented at 6th International Conference on Applied Econometrics (ICAE-VI) during July 5-6, 2018, ICFAI Foundation for Higher Education, Hyderabad, India.
9. Rajesh Kalli and **Pradyot Ranjan Jena** (2018). Does climate change affect agriculture adversely at smaller spatial scale? Evidence from district-wise analysis in Karnataka. Presented at 6th International Conference on Applied Econometrics (ICAE-VI) during July 5-6, 2018, ICFAI Foundation for Higher Education, Hyderabad, India. (**Main supervisor**).
10. S. Srujana, P. Tanti and **Pradyot Ranjan Jena** (2018). Is there a Long-run Relationship between CO2 Emission and Economic Growth in India? Evidence from Time series Analysis. Presented at 6th International Conference on Applied Econometrics (ICAE-VI) during July 5-6, 2018, ICFAI Foundation for Higher Education, Hyderabad, India. (**Main supervisor**).
11. Sunil Khosla and **Pradyot Ranjan Jena** (2018). A Profile of Poverty in Odisha: An Empirical Evidence from IHDS Data. Presented at 6th International Conference on Applied Econometrics (ICAE-VI) during July 5-6, 2018, ICFAI Foundation for Higher Education, Hyderabad, India. (**Main supervisor**).

12. R. Kalli and **Pradyot Ranjan Jena** (2018). Assessing climate change impacts on millet yields in the Karnataka region of Southern India. Presented at 7th International Engineering Symposium - IES 2018 during March 7-9, 2018, Kumamoto University, Japan. (**Main Supervisor**).
13. Rajesh Kalli, Sunil Khosla and **Pradyot Ranjan Jena** (2018). Effect of climate variability on agriculture using regression analysis. Presented at National Conference on Data Analytics. Machine Learning and Security. February 15-16, 2018, GGV. Central University Bilaspur, Chhattisgarh, India. (**Main Supervisor**).
14. **Pradyot R. Jena** and B. Nayak (2017). Can Third Party Certification Programs Improve livelihoods and reduce food insecurity: an empirical study from south India. Presented at the INSEE-KILA International conference on sustainability, institutions, and incentives: voices, policies and commitments during 08-10 November at KILA, Thrissur, India.
15. Sunil Khosla and **Pradyot Ranjan Jena** (2017). Estimating the Determinants Alleviation: An Empirical Study from Rural Odisha. Presented at International Conference on India after 25 years of Economic Reforms: What's achieved? What's ahead? Central University of Kerala, India. (**Main Supervisor**).
16. Rajesh Kalli, Sunil Khosla and **Pradyot Ranjan Jena** (2017). The impact of climate change on agricultural evidence of cereal crop using panel regression from Karnataka. Presented at the 5th National conference of Network of Rural and Agrarian Studies (NRAS) on agrarian Transition 'and Rural-urban Linkage in India in 21st century during 27-29 October, 2017 held at NCDS, Bhubaneswar. (**Main Supervisor**).
17. Potential Recommendation Domains for Conservation Agriculture in Eastern and Southern Africa. 6th World Congress on Conservation Agriculture. June 22-26, 2014. Manitoba, Canada. (Co-author, Total 4)
18. The Impact of Coffee Certification on Small-Scale Producers' Livelihoods: A Case Study in Jimma Zone, Ethiopia. 28th Triennial Conference of the International Association of Agricultural Economists (IAAE) in Brazil from August 18 to 24, 2012. (First author, total 3)
19. A study of changing patterns of energy consumption and energy efficiency in the Indian manufacturing sector) MPRA Paper, University Library of Munich, Germany. 2011. (Only author)
20. Coffee certification and poverty in Nicaragua: Should we be optimistic? paper presented at PEGNet conference 2010, South Africa. (First Author, Total 3)
21. Does Geographical Indication (GI) labeling increase producer welfare? A case study of Basmati rice in Northern India. paper presented at the International society

- for ecological economics (ISEE) conference 2010, Bremen-Oldenburg, Germany. (First author, Total 2)
22. Estimating environmental efficiency and Kuznets curve for India. paper presented at the International Association of Agricultural Economists Conference, Beijing, China, August 16-22, 2009. (Only author).
 23. Growth-Trade-Environment Nexus in India. Proceedings of the German Development Economics Conference, Zurich 2008, Verein für Socialpolitik, Research Committee Development Economics. (First Author, Total 2)
 24. Impact of Coffee Certification on Small-scale Producers: A Case Study in Jimma Zone of Ethiopia, Tropentag, 2011, Germany. (First author, Total 4)
 25. Factors Determining Behaviour of Thai Households in Adopting Geographical Indication Certification for Jasmine Rice, Tropentag 2011, Germany (Co-author, Total 3)
 26. Welfare Effects of Coffee Certification: Some Evidence from Nicaragua, Tropentag 2012, Germany (First author, Total 3)
 27. Impact of Certification for Tribal Coffee Growers Wellbeing: A Case Study from Araku Valley, India, Tropentag 2012 (Main supervisor, Total 3)

REVIEWER OF JOURNALS

Reviewed articles for the following journals –

- World Development
- Ecological Economics
- Agricultural Economics
- Applied Economic Perspective and Policy
- Journal of Cleaner Production
- Agribusiness
- Environment and Development Economics
- Regional Environmental Change
- Food Security
- Development Policy Review
- Journal of Agricultural Economics
- Food Policy

EDITOR IN JOURNAL

1. Guest Editor in *Frontiers in Sustainable Food Systems*
2. Member of Editorial Board in *Turkish Journal of Forecasting*

STATISTICAL SOFTWARE SKILLS

Excellent operating knowledge in the following statistical softwares: STATA, SAS, EViews, LIMDEP and SPSS

PROFESSIONAL MEMBERSHIP

- International Association of Agricultural Economics (IAAE)
- South Asian Network of Development and Environmental Economics (SANDEE)
- Indian Society for Ecological Economics (INSEE)
- International Society for Ecological Economics (ISEE)

(Dr. Pradyot Ranjan Jena)