

Curriculum Vitae

I. Personal Details

(A) Profile and Address

Name of the Candidate: **Dr Surendra Singh Jatav**

Date of Birth: 08.09.1986

Sex and Marital Status: Male and Unmarried

Address for Communication: Assistant Professor, Department of Economics, Babasaheb Bhimrao Ambedkar University, Vidhya Vihar, Rae Bareli Road, Lucknow- 226025, India

Permanent Address: Dr. Surendra Singh S/o Mr Beeru Singh, Village-Virjapur, Post- Adooki, Near Ambedkar Park, District-Mathura, Uttar Pradesh- 281006

(B) Educational Qualification

Examination	Year	Board/University
Secondary	2003	Rajasthan Board
Senior Secondary	2005	Uttar Pradesh Board
Graduation (B.Sc. Biology)	2008	Dr BRA University, Agra, U.P.
Post- graduation (M.A. Economics)	2010	Dr. BRA University, Agra, U.P.
M.Phil. (Economics)	2012	Bundelkhand University, Jhansi, U.P.
Ph.D. (Economics)	2018	BBA University, Lucknow, U.P.

Thesis/Dissertation

M.Phil. in Economics: Poverty Alleviation Programme (MGNREGA) in Jhansi District

Ph.D. in Economics: An Economic Analysis of Climate Change Effects on Agricultural Productivity: A case study of climate vulnerability of farmers in Bundelkhand region of Uttar Pradesh

(C) Research and Teaching Experience: 2 Years and 5 Months

Teaching Areas : Economics of Climate Change, Environmental Economics, Microeconomics, Statistics, Agricultural Economics, Development Economics

Research Areas : Climate change and agricultural productivity, livelihood and climate vulnerability, climate resilience, food security, soil sustainability, vulnerability of urban slums, livelihood security of rural and urban population

Significant contribution in the field of climate change impacts on agricultural productivity

: I have projected climate change impact on agricultural production in mainstream agro-climatic zones of India using CODEX- RCP scenarios. Disaggregate level analysis for districts pertaining in western dry region also made.

Significant contribution in the field of climate change effects on livelihoods of the Indian farmers

: By using IPCC- vulnerability framework suggested in AR5, vulnerability of mainstream agro-climatic zones of Uttar Pradesh, Gujarat and Rajasthan to climate change also assessed. Food and soil sustainability were also examined of major Indian states IPCC-framework.

Significant contribution in the field of Climate adaptation strategies in Indian agriculture

: By using multi-criteria approach, determinants of climate change adaptation strategies were examined in the rain-fed regions of India. How a rational farmer decides a correct and cost-effective adaptation strategy to cope with changing climate was assessed.

Significant contribution in the field of Climate Resilience strategies in Indian agriculture

: By using large-scale district-level data of 26 mainstream agro-climatic indications, climate resilience of Indian farmers was assessed. Our work covered 616 district of India and results are millstone for climate policy planning

Significant Contribution in Large Scale Data Use

: Expert in handling Large-scale data such as 59th, 69th, 70th, 76th rounds of NSS. Expert in handling NFHS- 1, 2, 3 & 4 unit level-data, ICRISAT-VDSA, Daily gridded data of rainfall and temperature, time-series, cross-sectional and panel-data. Expert in estimating Descriptive Statistics, Multiple Regression, Logit& Tobit modelling, and Indexing.

Award and Recognition

: Awarded best paper on livelihood security by National Institute of Rural Development and Panchayati Raj.

(D) Fellowship Awarded

1. Rajiv Gandhi National Fellowship for Ph.D. during 2013-2017

(E) Work Experience

1. Worked as a Regular Research Scholar during M.Phil. for One Year and at Institute of Banking Economics and Finance, Bundelkhand University, Jhansi, India
2. Worked as a Regular Research Scholar during Ph.D. for Five Years at Department of Economics, Babasaheb Bhimrao Ambedkar University, Lucknow, India
3. Worked as a Research Associate at ICAR- National Institute of Agricultural Economics and Policy Research, New Delhi, PUSA, New Delhi during 8th January 2018 to 11th August 2020.
4. Worked as a Guest Faculty at Department of Educational Studies, Central University of Jammu during 1st February 2021 to 14th March 2021.

II. Professional Development, Co-curricular and Extension Activities

(A) Participation/paper presentation in Seminar

1. Paper titled “MGNREGA: 100 days employment guarantee in Bundelkhand region (M.P.).?” presented in First Lucknow Social Science Congress, 14-15 March 2013 organized by School for Ambedkar Studies, BBA University, Lucknow, Uttar Pradesh.
2. Paper titled “An Economic Analysis of Climate Change and Its Impact on Agriculture Production, presented in National Economics Conference 10-12 May, 2013 organized by Young Economist School at University of Hyderabad, Hyderabad.
3. Participated in the Inter-Conference Symposium of International Association of Agricultural Economists (IAAE), on Re-visiting Agriculture Policies in the light of Globalization Experiences: The Indian Context, organized by Indian Society of Agricultural Economics during 12th -13th October, 2014 at MANAGE, Hyderabad, India.
4. Paper titled “The Potential Effect of Climate Change on Agricultural Productivity in Uttar Pradesh: Evidence from Panel Study, 5th March, 2016 in National Seminar on Current Issues in Rural Livelihood organized by Centre of Social Inclusion, Bankura Christian College, Bankura, West Bengal.
5. Paper titled “The Potential Effect of Climate Change on Crops Productivity in Bundelkhand Region, India: Evidences from Panel Study”, 27th to 28th July,

2016 in the 3rd International Research Scholar's Workshop organized by Department of Economics, University of Calcutta.

6. Paper titled "Climate Variability and Agricultural Productivity in Uttar Pradesh, India: Evidences from Panel Study" in the two-day International Seminar on "Poverty, Environment and Sustainable Development Goals in Asia- Pacific" organized by the Centre for Ecological Economics and Natural Resources of the Institute for Social and Economic Change, Bangalore during December 8th- 9th, 2016.
7. Paper titled "Climate Variability and Agricultural Productivity in Uttar Pradesh, India: Evidences from Panel Study" in 53rd Annual Conference of TIES from 22-24 December, 2016 at National Institute of Science Education and Research, Bhubaneswar.
8. Paper titled "Livelihood Vulnerability in the Rainfed regions of India: An Application of Indicators" in 77th Conference of Indian Society of Agricultural Economics, during October 12-14, 2017 at Central Agricultural University, Meghalaya.
9. Paper titled "Development of Sustainable Livelihood Security Index for different Agro Climatic Zones of Uttar Pradesh, India in National Conference on Climate Change Adaptations in Agriculture for Sustainable Livelihood, organized by National Institute of Rural Development and Panchayati Raj, Hyderabad during 22-23 November, 20119
10. Paper titled "Rural Credit and Determinants of Indebtedness in Uttar Pradesh, India" in Annual conference of Indian Society of Agricultural Marketing organized by Department of Economics, BBA University, Lucknow during 16-18 March, 2021.

(B) Training Course attended

1. Research Methodology Course in Economics and other Social Sciences for Ph.D. Students 20-30 November, 2012 organized by Department of Economics, University of Lucknow.
2. Research Methodology Course Organised by Council for Social development, Hyderabad, 21-31 January, 2013.
3. Two Weeks Workshop cum Training Programme on Application of Advance Econometric Techniques, 17-28 February, 2014 organized by Department of Economics, BBA University, Lucknow.
4. Workshop on Research Methodology for Ph.D. Students in Social Sciences organized by Institute of Economics and Finance during March 8-17, 2016, Bundelkhand University, Jhansi, Uttar Pradesh.

5. Training Programme on Methods and Approaches for Research in Migration Issues organized by Loyola Institute of Social Science Training and Research during 28 March -1 April, 2016, Loyola College Chennai.
6. Orientation Programme on Rural Livelihood and Well Being during 3-7 may, 2016 organized by Institute of Economic Growth, New Delhi.
7. Workshop on Econometric Modeling: Techniques and Research Applications” organized by Department of Economics during 22rd to 26th August, 2016 Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir.
8. Three days short-term course on “Panel data Analysis using STATA” during 23rd – 25th November, 2016 organized by Department of Humanities and Social Sciences, National Institute of Technology, Rourkela, Orissa.
9. Course on Quantitative Methods in Labour Research held during February 13-24, 2017 organised by V.V. Giri Labour Institute, NOIDA, India.
10. Course on Methods in Historical Research on Labour held during September 11-15, 2017 organised by the V.V. Giri Labour Institute, NOIDA, India.

(C) Lecture Delivered

1. Delivered a lecture on Livelihood Vulnerability in Rainfed Agriculture: A Study of Ten Villages of Buldelkhand Region of Uttar Pradesh, India in Research Methodology Workshop & Seminar for Sc/ST Research Scholars entitled “Livelihood, Health and Well-Being of Marginalized Group in India, March 26-30, 2018 at Institute of Economic Growth, New Delhi.
2. Delivered a lecture on NSSO data estimation in “Statistical Data Processing and Use of Unit Level Data of NSSO for Ph.D. Scholars” organizing by Department of Economics, BBA University, Lucknow, Uttar Pradesh, April 23 to May 2, 2018.
3. Delivered a lecture on How to Write a Good Thesis in ICSSR sponsored 10 Days Research Methodology workshop for PhD students by Department of Geography, Aligarh Muslim University, Aligarh, U.P., April 1-10, 2021
4. Delivered a lecture on Escalating Food Security in Gujarat in Webinar organized by Parul University, Vadodara, Gujarat, April 24, 2021

(D) Membership in Professional Society

1. Life member of the Indian Society for Ecological Economics (INSEE)
2. Life member of the Indian Society for Agricultural Economics (ISAE)
3. Life member of Uttar Pradesh Uttarakhand Economic Association (UPUEA)

(E) Computer/statistical Knowledge

1. Expert in the handling large-scale data analysis software like, STATA, SPSS and E-Views.
2. Expert in the handling Unit-level data of NSSO, NFHS, ICRISAT-VDSA, IMD Daily-Gridded Data, Census.
3. Expert in handling Mapping Software like QGIS.

III. Publications, Projects and Other Academic Achievements

(A) Publication

(a) Papers in Scopus Index Journals

1. Synergies and Trade-offs for Climate Resilient Agriculture in India: An Agro-Climatic Zone Assessment along with NP Singh, *Climatic Change* (Springer Nature), Vol. 116, No. 11, (2021), ISSN- 01650009.
2. Farmers' Perception of Climate Change and Adaptation Decisions: A Micro-level Analysis of Farmers in the Bundelkhand Region, India, *Ecological Indicators* (Elsevier), Vol. 116, (2020), ISSN- 1470160X.
3. Bridging the Gap between Biophysical and Social Vulnerability in Rural India: the Community Livelihood Vulnerability Approach, Area Development and Policy (Tylor Francis Publication), Vol. 5, No. 2 (2020), ISSN- 23792957.
4. Development of Sustainable Livelihood security index for different agro-climatic zones of Uttar Pradesh along with Sanatan Nayak, *Journal of Rural Development* (NIRD, Hyderabad), Vol. 39, No. 1 (2020), ISSN- 09703357.
5. Assessing livelihood vulnerability of farmers' in backward regions in India, *Indian Journal of Agriculture Research*, Vol. 54, No. 3 (2020), ISSN- 03678245.
6. Data on social and health vulnerability in rural India: A case of Covid-19, *Data-in-Brief* (Elsevier), Vol. 31 (2020), ISSN- 23523409
7. Development of gender sensitive vulnerability index for urban Indian Slums along with Sanatan Nayak, *Indian Journal of Traditional Knowledge*, Vol. 19, No. 3 (2020), ISSN- 09751068

8. De-stunting growth of crop diversification index: A case study from Malda District, India along with H. Rehman Ecology Environment & Conservation, Vol. 26 (February supplementary issue) (2020), ISSN- 0971765X
9. Dynamics of socio-economic factors affecting climate vulnerability and technology adoption: Evidence from Jodhpur District of Rajasthan along with NP Singh, Indian Journal of Traditional Knowledge, Vol. 19, Issue 1 (2020), ISSN- 09751068
10. Assessing Potential Impact of Climate Change in Gangetic Plain Region in India: A Regional Level Analysis along with NP Singh, Journal of Agrometeorology, Vol. 21, No 4 (2019), ISSN-09721665.
11. Mainstreaming Climate Adaptation in Indian Rural Development Agenda: A Micro-Macro Convergence along with NP Singh, Climate Risk Management (Elsevier Publication), Vol. 24, No. 2 (2019), ISSN- 22120963
12. Climate Vulnerability Assessment in Semi-arid and Arid region of Rajasthan, India: An Enquiry into the disadvantaged districts along with NP Singh, Journal of Agrometeorology, Vol. 21, No. 2 (2019), ISSN- 09721665
13. Impact of Covid-19 on the Livelihoods of Rural Farmers in Uttar Pradesh, India along with Anoop Kumar, Journal of Rural Development, Vol. 40, No. 1 (2021), ISSN- 09703357
14. Does India Achieve Agenda 2030 Targets: A multiple Lens Analysis, Indian Journal of Ecology (forthcoming Issue) (2021).

(b)Papers in UGC-CARE Listed Journals

15. Planned Adaptation Strategies and Climate Variability: Evidences from NSSO Households Level Data along with Sanatan Nayak, Research Review International Journal of Multidisciplinary, Vol. 3, No. 10 (2018), ISSN- 24553085
16. Application of Indicators for Identifying Climate Vulnerable Areas in Sub-tropical regions of India along with Sanatan Nayak, Asian Journal of Multidimensional Research, Vol. 7, No. 11 (2018), ISSN- 22784853.
17. Determinants of Agriculture Production in Uttar Pradesh, India: A Regional Analysis, Research Review International Journal of Multidisciplinary, Vol. 4, No. 1 (2019), ISSN- 24553085.

18. Soil Health Security in India: Insights from Soil Health Card Data, Research Review International Journal of Multidisciplinary, Vol. 4, No. 3 (2019), ISSN- 24553085
19. Escalating Food Security Status in Gujarat State of India along with Alka Singh, Asian Journal of Multidimensional Research, Vol. 8, No. 3 (2019), ISSN- 22784853.
20. Climate Variability and Rice Production in North India along with Md. Awais, Economic Affairs, Vol. 64, No. 2 (2019), ISSN- 0424-2513.
21. Climate Change and Agricultural Productivity: A Theoretical and Empirical Review along with Md. Awais, Global Journal of Bio-Science and Biotechnology, Vol. 8, No. 3 (2019), ISSN- 22789103.

(c) Paper in NAAS Indexed Journals

22. Farmers' Perception of Climate Change and Livelihood Vulnerability in Rainfed Regions of India: A Gender-environment Perspective along with Alka Singh, International Journal of Environment and Climate Change, Vol. 9, Issue, 12 (2019), ISSN- 25818627.
23. Climate Change and Migration: Adapting to Crisis along with Alka Singh, Asian Journal of Environment & Ecology, Vol. 11, No. 3 (2019), ISSN- 2456690X

(d) Papers in the Peer Review Journals

24. MGNREGA: 100 days employment guarantee in Bundelkhand region (M.P.)?, International Journal of Management and Development Studies, Vol. 2, Issue 4 (2013), ISSN- 23200685.
25. Climate Change and Agriculture Production in India along with Sanatan Nayak, European Academic Research, Vol.2, No. 6 (2014) , ISSN- 22864822.
26. Climate Variability and Agricultural Productivity in Uttar Pradesh, India: Evidence from Panel Study along with Sanatan Nayak, Journal of Regional Development and Planning, Vol. 7, No. 2 (2017), ISSN- 22779094.
27. Assessment of Climate Induced Vulnerability in the Bundelkhand Region, India: An Application of Indicator Based Approach along with Alka Singh, UPUEA Economic Journal, Vol. 11, No. 3 (2018), ISSN- 09752382.

28. Land Inequality and Agricultural Sustainability in Uttar Pradesh, India: A Regional Analysis along with Sanatan Nayak, Asian Journal of Science and Technology, Vol. 9, No. 11 (2018), ISSN- 09763376
29. Performance of Indian Agriculture: A State Level Analysis, Social Science Researcher, Vol. 4, No. 2 (2018), ISSN- 2319-8362.
30. Agricultural Development in India: A State-level Analysis, South Asian Journal of Social Studies and Economics, Vol. 6, No. 2 (2020), ISSN- 2581-821X.
31. Future climate change impacts on crop productivity in Coastal Regions of India: A Panel Estimation along with Alka Singh and Sanatan Nayak, Climate Change, Vol. 21, No. 21 (2020), ISSN- 23948566.
32. Assessment of Climate change impact on wheat yield in Western Dry Region: A District level analysis along with Sanatan Nayak Climate Change, Vol. 6, No. 21 (2021), ISSN- 23948566.
33. Biophysical Limits to Economic Growth and Sustainable Development: Perspectives and Approaches along with Surendra Meher, Sanatan Nayak and Sonali Narang, Vol. 4, No. 2 (2021), ISSN- 2582-2985.
34. Coping to Covid-19 in Uttar Pradesh, India: Evidence from NSSO 7th Round Data along with Surendra Meher, Sanatan Nayak and Sonali Narang, Vol 9, ISSN- 328-4919

(e) Papers in Edited Books

35. The Potential effect of Climate Change on Cash Crops Productivity in Uttar Pradesh: Evidence from Panel Study along with Sanatan Nayak, in Issues in Rural Livelihood (eds.) Sheeladitya Paul, Subikash Chowdhury, Progressive Publishers, Kolkata (2016), ISBN No. 97881180642364.
36. Impact of Climate Change on Agriculture: Approaches, Extent and Dimensions along with Santan Nayak, in State and Capitalist Development in India: A Political Economic Perspective (eds.) Surinder Kumar and C.S. Verma, Aakar Books Publication, New Delhi (2016), ISBN No. 9789350023730.
37. Do Marginal Farmers Vulnerable to Climate Change: A Pragmatic Approach, in Social Development of Vulnerable Groups: Issues and Challenges in

Contemporary India (eds.) Tapas Kumar Dalpati, Ravat Publication (2021), New Delhi.

38. Micro Level Adaptation Strategies in Agriculture: A Study of Two Districts of Bundelkhand Region in Making Indian Agriculture Climate Friendly (ed) I. Maruthi, Mangla Publication (2021), Mangaluru.

(f) Papers in Seminar Proceedings

39. An Assessment of Farm Level Adaptation Strategies in Agriculture: A Case Study of Two Districts of Bundelkhand Region, India along with Sanatan Nayak, Indian Political Economy Association, Conference Proceedings, December, 8-9, 2017.
40. Assessment of Climate Induced Vulnerability in the Bundelkhand Region of Uttar Pradesh: An Application of Indicator Based Approach along with Sanatan Nayak, Indian Journal of Agricultural Economics (*summary*), Vol. 72, No. 3 (2017).

Dr Surendra Singh Jatav