



Dr. Raju Mandal
Professor

AFFILIATION & CONTACT INFORMATION

Department of Economics
Assam University, Silchar
Cachar, Assam
INDIA – 788 011
E-mail: rajum06@gmail.com



EDUCATION

Post-doctorate

August 2013 – August 2014

Sam Houston State University (SHSU), Texas, USA

Topic: *Climate Change Impact on Rice Yield in Assam*

Advisor: Dr. Hiranya K. Nath, Professor, Department of Economics and International Business, SHSU.

PhD in Economics

April 2005 – January 2011 (Awarded on February 1, 2012)

Gauhati University (GU), Guwahati, Assam, INDIA

Dissertation: *Cropping Pattern and Crop Diversification in Flood-prone and Flood-free Agro-economic Environments in Assam.*

Thesis Adviser: Dr. M.P. Bezbaruah, Professor, Department of Economics, GU.

M.A. in Economics

2002 – 2003 (Awarded in April, 2004)

Gauhati University, Guwahati, Assam, INDIA

B.A. (Honors) in Economics

1998 – 2001 (Awarded in September, 2001)

Gauhati University, Guwahati, Assam, INDIA

HONORS AND AWARDS

August 2013 – August 2014: **Raman Post Doctoral Fellowship** awarded by University Grants Commission, Government of India.

November 2009 – May 2010: **Short-term Doctoral Fellowship** awarded by Indian Council for Social Science Research.

June 2004: **Junior Research Fellowship** under all India UGC-National Eligibility Test.

2004: **Gold Medalist in M.A. (Economics)** under Gauhati University.

1998: **Second Rank** in Higher Secondary Final Examination under Assam Higher Secondary Education Council.

TEACHING EXPERIENCE

February 1, 2023 – till date:

Professor, Department of Economics, Assam University, Silchar.

February 1, 2020 – January 31, 2023:

Associate Professor, Department of Economics, Assam University, Silchar.

March 20, 2007 – January 31, 2020:

Assistant Professor, Department of Economics, Assam University, Silchar.

September 22, 2005 – March 17, 2007:

Lecturer, Department of Economics, Rajiv Gandhi University, Itanagar.

RESEARCH INTEREST

Climate Change and Agriculture

Economic impacts of Flood

Food and Nutrition Security

ASSOCIATION MEMBERSHIP

Indian Society for Agricultural Economics

North Eastern Economic Association

ACADEMIC VISITS ABROAD

1. **University of Ruhuna, Sri Lanka** (February, 2020): Delivered a keynote speech in the *International Symposium on Agriculture and Environment*.
2. **Tokyo, Japan** (March, 2019): Paper presentation in the 15th International Conference of Western Economic Association International organized by Keio University, Tokyo.
3. **Denver, Colorado, USA** (June, 2014): Paper presentation in the Western Economic Association International 89th Annual Conference.
4. **Tampa, Florida, USA** (November, 2013): Paper presentation in the 83rd Annual International Conference of the Southern Economic Association.
5. **Sam Houston State University, Texas, USA** (August 2013- August 2014): Visiting Researcher.

6. **Asian Institute of Technology, Bangkok, Thailand** (May, 2011): *Training Course in Environmental and Natural Resource Economics* organized by South Asian Network for Development and Environmental Economics (SANDEE).

FUNDED PROJECTS

One of the investigators of a project (30-06-2015 to 30-09-2016) on “**Why is Assam Left Behind in India's Economic Boom? A Behavioural Perspective on the Effect of Conflict**” funded by International Growth Center, London School of Economics and Political Science. The other investigators are from USA, Australia and India (Amount: £ 9980 (Rs. 8.5 lakh approx.).

Principal investigator of a project (2013 – 14) on “**Climate Change Impact on Rice Production in Assam**” funded by University Grants Commission, and conducted at Sam Houston State University, Texas, USA (amount: Rs. 22.98 lakh).

Associate Investigator of a Project (2009) on “**Problems and Prospects of Development in the Border Areas of Northeast India: Implications for Thirteenth Finance Commission**” funded by 13th Finance Commission, Govt. of India.

PUBLISHED PAPERS IN JOURNALS

Islam, A., Mahanta, R., Mandal, R., Nath, H.K., Ouch, C. and Sarkar, D. (2023), “Long-term impact of exposure to violent conflict: Are there gender differences?”, *Journal of Economic Behavior and Organization*, Vol. 208, pp. 120-139. (<https://doi.org/10.1016/j.jebo.2023.02.011>), ISSN 0167-2681, (Scopus).

Sarkar, P., Das, T., Mandal, R. and Adhikari, D. (2023), “Assessing Anthropogenic Pressure on seasonal wetlands for their conservation and sustainable utilization: a case study of a floodplain wetland in Barak valley of northeast India”, *Environment, Development and Sustainability*, Vol. 25, Issue 11, pp. 12371-12394, ISSN 1573-2975 (Scopus).

Sarkar, P., Das, T., Mandal, R. and Adhikari, D. (2022), “Change in Structural Components Due to Seasonal Flooding Governs Provisioning Ecosystem Service Delivery and Livelihood Diversification: A Case Study from a Tropical Floodplain Wetland in Barak Valley Region of India”, *Anthropocene Science*, DOI: [10.1007/s44177-022-00040-2](https://doi.org/10.1007/s44177-022-00040-2) , ISSN 2731-3980 , (Peer reviewed)

Mandal, Raju and Maity, S. (2022), “Does a Diversified Crop Portfolio Make Farmers More Efficient? A Stochastic Production Frontier Analysis of Farm-level Data from Assam, India”, *International Journal of Rural Management*, Vol. 18, No. 1, pp. 103-122, DOI: [10.1177/0973005221997580](https://doi.org/10.1177/0973005221997580), ISSN: 0973-0680 (Scopus).

Guha, P. and Mandal, Raju (2021), “Technical Inefficiency of Maize Farming and Its Determinants in Different Agro-Climatic Regions of Sikkim, India”, *Indian Journal of Agricultural Economics*, Vol. 76, No. 2, April-June, pp. 225-244., ISSN 0019-5014 (Scopus).

Goswami, B., Mandal, Raju and Nath, H.K. (2021), “Covid-19 pandemic and economic performances of the states in India”, *Economic Analysis and Policy*, Vol. 69, pp. 461-479, ISSN: 0313-5926 (Scopus).

Mandal, R. (2021), “Climate Change and Our Common Future”, *Assam Economic Review*, Vol. 14, pp. 44-56, ISSN 2319-625 (peer reviewed).

- Mandal, Raju and Singha, P. (2020), “Impact of Climate Change on Average Yields and their Variability of the Principal Crops in Assam” , *Indian Journal of Agricultural Economics*, Vol. 75, No. 3, July-September, pp. 305-316, ISSN 0019-5014 (Scopus).
- Nath, H.K. and Mandal, Raju (2018), “Heterogeneous Climatic Impacts on Agricultural Production: Evidence from Rice Yield in Assam, India”, *Asian Journal of Agriculture and Development*, 2018, Vol. 15, No.1, pp. 23-42, ISSN: 1656-4383 (Web of Science).
- Mandal, Raju, Barman, S. and Bezbaruah, M.P. (2018), “Towards an Optimum Mobilization of Resources for Conservation of an Environmental Amenity: A Case Study of Kaziranga National Park, India”, *International Journal of Ecological Economics and Statistics*, Vol. 39, No. 2, pp. 19 – 33, ISSN: 0973-7537 (Web of Science).
- Sarma, Munmi and Mandal, Raju (2018), “Food Insecurity in India: Extent, Variations and Determinants”, *Assam Economic Review*, Vol. 11, pp. 153- 169, ISSN-2319-6254 (Peer reviewed).
- Mandal, Raju (2017), “Assam’s Sorrow: Is There a Way Out?”, *Economic and Political Weekly*, Vol. 52, No. 36, pp. 20-22, ISSN 0012-9976 (Scopus).
- Mandal, Raju and Singha, Pratiti (2017), “Does Weather affect Criminal Activities? A Cross-section Study of Cities in India”, *Assam Economic Review*, Volume 10, pp. 34-45, ISSN: 2319-6254 (Peer reviewed).
- Bhattacharyya, Aditi and Mandal, Raju (2016), “A Generalized Stochastic Production Frontier Analysis of Technical Efficiency of Rice Farming: A Case Study from Assam, India”, *Indian Growth and Development Review*, Vol. 9, No. 2, pp. 114-128, ISSN: 1753-8254 (Scopus).
- Mandal, Raju (2014), “Flood, cropping pattern choice and returns in agriculture: A study of Assam plains, India”, *Economic Analysis and Policy*, Vol. 44, pp. 333 – 344, ISSN: 0313-5926. <http://dx.doi.org/10.1016/j.eap.2014.08.001> (Scopus).
- Mandal, Raju and Bezbaruah, M.P. (2013), “Diversification of Cropping Pattern: Its Determinants and Role in Flood Affected Agriculture of Assam Plains”, *Indian Journal of Agricultural Economics*, Vol. 68, No. 2, April-June, pp. 169-181, ISSN 0019-5014 (Scopus).
- Mandal, Raju (2011), “Cropping Pattern Diversification across Assam: Variations and Causes”, *IUP Journal of Agricultural Economics*, Vol. VIII, Issue 1, pp. 7-17, ISSN 0973-2276 (Peer reviewed).
- Mandal, Raju (2010), “A Spatio-Temporal Investigation into the Performance of a North-eastern State: A Human Development Approach”, *Indian Journal of Human Development*, Vol. 4, No. 2, pp. 409-420, ISSN 0973-7030 (Peer reviewed).
- Mandal, Raju (2010), “Cropping Patterns and Risk Management in the Flood Plains of Assam”, *Economic and Political Weekly*, Vol. 45, No. 33, August 14-20, pp. 78-81, ISSN 0012-9976 (Scopus).
- Dutta, M.K., Mandal, Raju and Bezbaruah, M.P. (2005), “Crop Diversification under Government Supplied and privately Owned Irrigation: A Study in the Brahmaputra Valley in Eastern India”, *Assam Economic Journal*, Vol. XVIII, pp. 61-68, ISSN - 0976-7530 (Peer reviewed).

BOOKS AUTHORED/EDITED

- Goswami, B., Bezbaruah, M.P. and Mandal, R. (Ed.) (2017), *Indian Agriculture after the Green Revolution: Changes and Challenges*, **Routledge, New York**, ISBN: 978-1-138-28629-0.
- Roy, Niranjana and Mandal, Raju (Ed.), 2012, *Segments from Development Discourse in Northeast India*, Assam University Publication, ISBN: 978-81-908202-1-9.
- Roy, Niranjana and Mandal, Raju (Ed.), 2012, *A Tapestry of Research in Economics in Northeast India*, Assam University Publication, ISBN: 978-81-908202-2-6.

CHAPTERS IN EDITED BOOKS

- Mandal, Raju and Sarma, Munmi (2020), “Impact of Weather Shock on Food Insecurity: A Study on India”, in Roy, N., Roychoudhury, S., Nautiyal, S., Agarwal, S., Baksi, S. (Ed.), *Socio-economic and Eco-biological Dimensions in Resource use and Conservation - Strategies for Sustainability*, Springer International, Switzerland, ISBN: 978-3-030-32462-9, pp. 333-349.
- Mandal, Raju and Dhar, Pallabi (2019), “Food Insecurity in India: A Comparative Study of Hills and Plains”, in S.K. Nayak, L. Nochi and M. Lama (Ed.), *Hill Economies and Sustainable Development in India – Emerging Realities*, Concept Publisher, Delhi, ISBN: 93-88937-25-2.
- Haloi, D., Mandal, Raju and Baruah, R.D. (2018), “Neonatal mortality and role of maternal education in Assam, India”, in A.R. Chaurasia (Ed.), *India 2018 : Child Health and Mortality*, MLC Foundation, pp. 103-116, ISBN: 978-92-82411-15-4.
- Mandal, Raju and Nath, H.K. (2017), “Climate Change and Indian Agriculture: Impacts on Crop Yield”, in Goswami, B., Bezbaruah, M.P. and Mandal, R. (Ed.), *Indian Agriculture after the Green Revolution: Changes and Challenges*, Routledge, New York, ISBN: 978-1138286290.
- Barman, Subrata and Mandal, Raju (2012), “Estimating Recreational Demand for Environmental Amenity: An Application of Individual Travel Cost Method for Kaziranga National Park”, in Roy, Niranjana and Mandal, Raju (Ed.), *A Tapestry of Research in Economics in Northeast India*, Assam University Publication, ISBN: 978-81-908202-2-6.
- Mandal, Raju (2010), “Factors Behind the Extent of Crop Diversification in the Plains of Assam: A Spatial Analysis”, in Lenka, Jagannath (Ed.), *Current Issues in Indian Agriculture*, Serials Publications, New Delhi, 2010; pp. 139-152, ISBN 978-81-8387-255-3.

RESEARCH GUIDANCE

PhD: 07 (3 awarded and 4 ongoing)

MPhil: 01 (awarded)

INVITED LECTURES/RESOURCE PERSON/DISCUSSIONS

Participated in the Panel Discussion entitled ‘Challenges of South Asian Nations with a special reference to the recent Sri Lankan crisis’ as a panelist on 25th July 2022 in the National Seminar on ‘Emerging Socio-economic and Cultural Issues of South Asian nations towards Developmental Journey in the Post-colonial Era’ organized by Department of Economics, Women’s College, Silchar, Assam.

Delivered a guest lecture on the topic “Climate change and our common future” at Radhamadhab College, Silchar on 26th February 2022.

Acted as a Resource Person in the ‘Workshop on Research Methodology for Social Sciences’ organized by Department of Economics, University of Science and Technology Meghalaya on 14-15 March, 2022.

Acted as a Resource Person in the “*Online Faculty Development Program Series on Analytics for Research in Management*” organized by the Department of Business Administration, Assam University, Silchar on February 11, 2022.

Acted as a Resource Person in the International Webinar on “*Socio-Economic Lessons of Covid-19: Opportunities and Strategies for Realisation*” organised by the Department of Economics and Department of English, HCDG College, Nitaipukhuri, Sivasagar, Assam on July 22, 2020.

Delivered a keynote speech on ‘Agriculture in the Contemporary World: The Economic and Environmental Issues’ in the *International Symposium on Agriculture and Environment 2020* held at University of Ruhuna, Sri Lanka on February 14, 2020.

Delivered a lecture in the national workshop on ‘Data Collection, Processing and Analysis’ organized by the Department of Economics, Assam University during 12-14 March 2018.

Delivered two lectures in a workshop on ‘Statistical Techniques and their Application in Social Science Research’ organized by the Centre for Development Studies, Department of Economics, Rajiv Gandhi University, Itanagar during December 2-6, 2015.

Delivered four lectures in ‘Environmental Resource Management and Sustainable Development’ organized by the Department of Economics, BKB College, Nagaon during September 7-9, 2015.

Delivered four lectures in ‘One Week Workshop on Econometrics: Practice and Research (for Faculty and Researchers)’ organized by the Department of Economics, Rajiv Gandhi University, Itanagar during December 15-24, 2014.

ADMINISTRATIVE WORK

Research coordinator of the Department of Economics, Assam University, Silchar (since 2014).

Convener of the International Seminar on 'Economic Dependence of Northeast India and its Bordering Nations' sponsored by the Indian Council of Social Science Research and held at Department of Economics, Assam University, Silchar during November 8-9, 2016.

Former Departmental coordinator of IQAC, Department of Economics, Assam University, Silchar (till 2013).

Convener of the Programme Committee of 13th Annual Conference of North Eastern Economic Association (NEEA) to be organized at Assam University during November 16-18, 2011.