

# RUPAK GOSWAMI, PhD

*Faculty Centre for Integrated Rural Development and Management, Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata 700103, INDIA (since May 2007) and*

*Visiting Fellow, University of California, Davis, CA, USA (2018-2019)*

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**ORCID ID:** <https://orcid.org/0000-0002-5998-4396>

**Birth:** December 18, 1978, Kolkata, INDIA

## **Education:**

PhD in Agricultural Extension (April 2007), Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University, West Bengal)

MSc (Ag) in Agricultural Extension (September 2002), Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University, West Bengal)

## **Recognition**

Fulbright-Nehru Academic & Professional Excellence Award (2018-19)

Young Scientist Award-2017 from Society of Extension Education (2017)

## **Teaching:**

Rural Extension [ARD-103], Research Methodology-I [ARD-105], Research Methodology-II [ARD-205], Rural Development Management [ARD-301], Extension Programmes & Organisations [ARD-302], Competency Development for Rural Development Professionals [ARD-359], Seminar-I [ARD-403], Seminar-II [ARD-404], Agricultural Extension [ABT-205], Review of Literature [ARD-501], Advance Research Methodology [ARD-502], Computer Application in Research [ARD-503], Emerging Thoughts and Techniques in Extension [ARD-551], Sustainable Rural Livelihoods [ARD-553]

## **Research Focus and Interests:**

Sustainability of Agricultural Systems; Social Network Analysis; Mental Model of Farmers; Rural Migration-Agriculture-Women Nexus; Typology Study of Farming Systems; Technology Diffusion; Mixed Method Applications; Participatory Appraisals

## **Software:**

SPSS for Windows, SPSS Modeler (limited), UCINET & NetDraw, ATLAS.Ti, Several data visualization software

## **Theses/Research Supervision:**

PhD: Completed - 4; Ongoing ~ 5

MSc: ~35

## **Grantsmanship/Collaboration:**

Collaborator (2018-2020 & 2021-2024). Cropping systems intensification in the salt affected coastal zones of Bangladesh and West Bengal, India (CSI4CZ). Australian Centre for International Agricultural research.

Host Faculty of the UC-Davis Global Fellowship in Agricultural Development (GFAD) (2019-2021). Graduate student hosting from the University of California System.

Goswami, R. (2019). (PI) Farmer's Perception of Sustainability and its Relationship with Farm Resource Utilization. Self-initiated Project at University of California, Davis.

Goswami, R. (2018). (PI) Identifying the Efficient Resource Integration Strategies in Small Farms of India and USA and Assessment of Their Sustainability. United States India Educational Foundation (USIEF) at University of California, Davis. [Period: 2018-2019; Share: ~USD 29000]

Goswami, R. (2018). (PI). Impact Assessment of Agricultural Research and Extension Organization: The Case of International Plant Nutrition Institute (IPNI) in India. International Plant Nutrition Institute, South Asia Programme. [Period: 2018-2019; Share: INR 1,10,000]

Goswami, R. (Collaborating Centre PI) (2018). Establishment of a biotech-KISAN Hub in Sunderban area of South 24 Parganas District of West Bengal. Department of Biotechnology, Govt. of India. [Period: 2018-2020 (initially); Share: INR 10,00,000 (initial)]

Goswami, R. (Co-PI) (2018). Human surface thermographic profiling as indicator of climate susceptibility and impact mitigation using social networking. Department of Science and Technology, Ministry of Science and Technology, Government of India. [Period: 2018-2021; Share: INR 69,42,000]

Goswami, R. (2013). (Co-PI). Agronomic, economic, social and environmental benefits of improved nutrient management practices in maize production systems under variable farm size, climate, soil fertility

conditions and farmer resource endowment in India. International Plant Nutrition Institute (IPNI) & Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT), Mexico. [Period: 2013-2015; Share: INR 4,00,000]

Goswami, R. (2013). (PI). Improved Quality of Rural Life through Scientific Management of Natural Resources. Department of Science and Technology, Ministry of Science and Technology, Government of India [Period: 2013-2015; Share: INR 22,04,000]

### **Reviewed for:**

Journal of the Royal Society Interface, Agricultural Systems (Elsevier), International Journal of Disaster Risk Reduction (Elsevier), The Social Science Journal (Elsevier), Journal of Agricultural Science and Technology, Annals of Agricultural Science (Elsevier), Cogent Social Sciences (Taylor & Francis), Cogent Food and Agriculture (Taylor & Francis), Agronomy, Journal of Agricultural Science, Space and Culture, India

### **Collaborations (Past and Present): Publications, Projects, Exchange**

1. Global HealthShare®, University of California, Davis, CA, USA
2. Global Fellowship in Agricultural Development, University of California Davis, CA, USA
3. Indian Institute of Technology, Kharagpur, INDIA
4. African Plant Nutrition Institute, Benguerir, MOROCCO
5. Department of Agronomy, BCKV, INDIA
6. Agricultural Technology Application and Research Institute (ICAR-ATARI), Kolkata, INDIA
7. Australian Centre for International Agricultural Research, AUSTRALIA
8. International Plant Nutrition Institute, South Asia Programme (2014-2018)
9. Department of Biology, Georgia Southern University, GA, USA (2013-2017)
10. Sociological Research Unit, Indian Statistical Institute, Calcutta, INDIA (2013-2018)
11. Department of Agricultural Economics, BCKV, INDIA (2013-2015)

### **Selected Peer-reviewed Publications & Preprints:**

**Goswami, R.**, Roy, K., Dutta, S., Ray, K., Sarkar, S., Brahmachari, K., Nanda, M.K., Mainuddin, M., Banerjee, H., Timsina, J., & Majumdar, K. (2021). Multi-faceted impact and outcome of COVID-19 on smallholder agricultural systems: Integrating qualitative research and fuzzy cognitive mapping to explore resilient strategies. *Agricultural Systems*,

DOI: 10.1016/j.agry.2021.103051

**[IF: 4.232]**

**Goswami, R.**, Brodt, S., Patra, S., Dasgupta, P., Mukherjee, B., & Nandi, S. (2020). Resource Interaction in Smallholder Farms is Linked to Farm Sustainability: Evidence from Indian Sundarbans. Preprints 2020, 2020120311, DOI: 10.20944/preprints202012.0311.v1

Ray, K., Sen, P., **Goswami, R.**, Sarkar, S., Brahmachari, K., Ghosh, A., Nanda, M.K., & Mainuddin, M. (2020). Profitability, energetics and GHGs emission estimation from rice-based cropping systems in the coastal saline zone of West Bengal, India. *PLoS ONE*, 15(5): e0233303. DOI: 10.1371/journal.pone.0233303

**[IF: 2.74]**

Saha, S., & **Goswami, R.\*** (2020). Destinations of Male Outmigration and their Drivers in Indian Sundarbans. *Space and Culture, India*, 8(1), 111-142.

**[SJR: 0.156]**

Dutta, S., Chakraborty, S., **Goswami, R.**, Banerjee, H., Majumdar, K., Li, B., & Jat, M. L. (2020). Maize yield in smallholder agriculture system—An approach integrating socio-economic and crop management factors. *PLoS ONE*, 15(2): e0229100. DOI: 10.1371/journal.pone.0229100

**[IF: 2.74]**

Ray, K., Hasan, S. S., & **Goswami, R.** (2018). Techno-economic and environmental assessment of different rice-based cropping systems in an inceptisol of West Bengal, India. *Journal of Cleaner Production*, 205, 350-363. DOI: 10.1016/j.jclepro.2018.09.037

**[IF: 7.246]**

**Goswami, R.\***, Misra, S., Mondal, T., & Jana, R. (2018). Social network analysis in the context of community response to disaster. *SAGE Research Methods Cases*, Part 2, DOI:10.4135/9781526444622

Saha, S., **Goswami, R.\***, & Paul, S. K. (2018). Recursive male out-migration and the consequences at source: A systematic review with special reference to the left-behind women. *Space and Culture, India*, 5(3), 30-53. DOI:10.20896/saci.v5i3.289

**[SJR:**

**0.156]**

**Goswami, R.**, Saha, S., & Dasgupta, P. (2017). Sustainability assessment of smallholder farms in developing countries. *Agroecology and Sustainable Food Systems*, 41(5): 446-469. DOI: 10.1080/21683565.2017.1290730

**[IF:**

**1.636]**

Misra, S., **Goswami, R.\***, Mondal, T., & Jana, R. (2017). Social networks in the context of community response to disaster: Study of a cyclone-affected community in coastal West Bengal. *International Journal of Disaster Risk Reduction*, 22, 281-296. DOI: 10.1016/j.ijdr.2017.02.017

**[IF: 2.896]**

**Goswami, R.\***, & Majumder, S. (2017). Construction of gender sensitive poverty line based on local perception: Evidence from Habra-II Block of West Bengal state in India. *The Social Science Journal*, 54(1), 76-92. DOI: 10.1016/j.soscij.2016.11.004 **[IF: 1.033]**

Ghosh, S., Manna, S., Dutta, A., & **Goswami, R.** (2017). Social, Economic, and Production Characteristics of Freshwater Prawn, *Macrobrachium rosenbergii* (De Man, 1879) Culture in West Bengal, India. *Aquaculture International*, 25(5), 1935-1957. DOI: 10.1007/s10499-017-0165-7. **[IF: 1.363]**

**Goswami, R.**, Dasgupta, P., Saha, S., Venkatapuram, P., & Nandi, S. (2016). Resource integration in smallholder farms for sustainable livelihoods in developing countries. *Cogent Food & Agriculture*, 2:1 (1272151). DOI: 10.1080/23311932.2016.1272151

Chatterjee, S., **Goswami, R.\***, & Bandyopadhyay, P. (2015). Methodology of identification and characterization of farming systems in irrigated agriculture: Study in West Bengal state of India. *Journal of Agricultural Science and Technology*, 17(5), 1127-1140. **[IF: 0.897]**

**Goswami, R.\***, Chatterjee, S., & Prasad, B. (2014). Farm types and their economic characterization in complex agro-ecosystems for informed extension intervention: study from coastal West Bengal. *Agricultural and Food Economics*, 2(1). DOI: 10.1186/s40100-014-0005-2

**[SJR: 0.764]**

Banerjee, H., **Goswami, R.**, Chakraborty, S., Dutta, S., Majumdar, K., Satyanarayana, T., Jat, M. L., & Zingore, S. (2014). Understanding biophysical and socio-economic determinants of maize (*Zea mays* L.) yield variability in eastern India. *NJAS: Wageningen Journal of Life Sciences*, 70-71:79-93. DOI:10.1016/j.njas.2014.08.001 **[IF: 1.608]**

Ali, N., Yeasmin, L., Gantait, S., **Goswami, R.**, & Chakraborty, S. (2014). Screening of rice landraces for salinity tolerance at seedling stage through morphological and molecular markers. *Physiology and Molecular Biology of Plants*, 20(4): 411-423. DOI: 10.1007/s12298-014-0250-6 **[IF: 1.646]**

Biswas, S., Ali, N., **Goswami, R.\***, & Chakraborty, S. (2014). Soil health sustainability and organic farming: A review. *Journal of Food, Agriculture & Environment*, 12(3&4):132-138. **[SJR: 0.152]**

Misra, S., **Goswami, R.\***, Basu, D., & Jana, R. (2014). Application of social network analysis in livelihoods system study. *Space and Culture, India*. 2(3), 24-46. DOI: 10.20896/saci.v2i3.36

**[SJR: 0.156]**

**Goswami, R.\***, Biswas, M.S., & Basu, D. (2012). Validation of participatory farming situation identification: A case of rainfed rice cultivation in selected area of West Bengal, India. *Indian Journal of Traditional Knowledge*, 11(3), 471-479.

**[IF: 0.731]**

**Goswami, R.\***, & Ali, N. (2011). Use of participatory exercise for modelling the adoption of organic agriculture. *The Journal of Extension*, 49(3). <http://www.joe.org/joe/2011june/iw4.php>

**[SJR: 0.227]**

Basu, D., Basu, G., Biswas, S., & **Goswami, R.** (2011). Stakeholders' perceived attributes of fresh vegetables: an important input in breeding program. *Acta Horticulturae* (ISHS), 895:51-57.

**[SJR: 0.184]**

**Goswami, R.\***, Ghosh Ray, J., & Ghose, J. (2010). Telesupport Experiment for Agricultural Information Management in West Bengal, India. *The Journal of Community Informatics*, 6(2). <http://www.ci-journal.net/index.php/ciej/article/view/518/588>

Basu, D., Banerjee, S., & **Goswami, R.** (2009). Vegetable cultivation on ail (bund): a successful farmer-led technology transfer. *Acta Horticulturae* (ISHS), 809:155-160.

**[SJR: 0.184]**

Basu, D., Banerjee, S., & **Goswami, R.** (2009). Farmers' knowledge management in banana cultivation in a village of West Bengal, India: a reflection of farmer managed technology adaptation and transfer in horticulture. *Acta Horticulturae* (ISHS), 832:49-56.

**[SJR: 0.184]**

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