Aurup Ratan Dhar

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ResearchGate
Google Scholar
LinkedIn
Personal Website

Educational Background

Ph.D. candidate — **Tohoku University, Japan** — 2019-2022 (Expected)
Graduate School of Environmental Studies
Thesis: **Nitrogen and phosphorus footprint analysis considering cultural and religious aspects of food diet: Case study of the Indian subcontinent**
Supervisor: Professor Kazuyo Matsubae

M.S. — **Bangladesh Agricultural University, Bangladesh** — 2015-2017
Agricultural Economics (Production Economics)
Department of Agricultural Economics
Thesis: **Enhancing farmers' livelihood through adoption of conservation agriculture: A socioeconomic study**
Supervisor: Professor Md. Taj Uddin
CGPA: 3.813 (4.000 scale) Marks obtained: 76.26%
Position: 1st class 2nd (out of 12 students)

B.Sc. — **Bangladesh Agricultural University, Bangladesh** — 2011-2015
Agricultural Economics (Hons.)
Faculty of Agricultural Economics and Rural Sociology
CGPA: 3.570 (4.000 scale) Marks obtained: 71.40%
Position: 1st class 15th (out of 76 students)

Research Experience

Research Assistant

Ministry of Education, Bangladesh — July 2018-June 2019
Project: Water saving technologies in Bangladesh crop farming: Socioeconomic and environmental perspective

Ministry of Science and Technology, Bangladesh — July 2017-June 2018
Project: Hydroponic fodder production in Bangladesh: Prospects and challenges

Ministry of Education, Bangladesh — July 2015-June 2017
Project: Enhancing livelihood of farming community through adoption of conservation agriculture: A socioeconomic study

Publications

From Ph.D.:

Dhar, A.R., Oita, A. and Matsubae, K. 2021. The effect of religious dietary cultures on food nitrogen and phosphorus footprints: A case study of India. ***Nutrients***, 13(6): 1926.

Dhar, A.R., Oita, A. and Matsubae, K. 2021. Food nitrogen footprint of the Indian subcontinent towards 2050: Scenarios on increase in nitrogen use efficiency and adoption of EAT-Lancet reference diet. (under preparation).

Dhar, A.R., Wirasenjaya, F., Oita, A., Katagiri, K. and Matsubae, K. 2021. Nitrogen and phosphorus footprints of food in South Asia. In: ***Handbook of Nitrogen and Phosphorus Footprint,*** Springer-Nature (under preparation).

From M.Sc.:

Dhar, A.R., Islam, M.M., Jannat, A. and Ahmed, J.U. 2018. Adoption prospects and implication problems of practicing conservation agriculture in Bangladesh: A socioeconomic diagnosis. ***Soil & Tillage Research***, 176: 77-84.

Uddin, M.T. and **Dhar, A.R.** 2016. Conservation agriculture practice and its impact on farmer's livelihood status in Bangladesh. ***SAARC Journal of Agriculture***, 14(1): 119-140.

Uddin, M.T., **Dhar, A.R.** and Islam, M.M. 2016. Adoption of conservation agriculture practice in Bangladesh: Impact on crop profitability and productivity. ***Journal of the Bangladesh Agricultural University***, 14(1): 101-112.

Additional publications from project works:

Dhar, A.R., Uddin, M.T. and Nielsen, M. 2021. Enhancing export potential of Pangasius and Tilapia through quality assurance and safety compliances: Case study of processing plants and exporters in Bangladesh. ***Aquaculture***, 531: 735921.

Uddin, M.T. and **Dhar, A.R.** 2020. Assessing the impact of water-saving technologies on *Boro* rice farming in Bangladesh: Economic and environmental perspective. ***Irrigation Science***, 38(2): 199-212.

Dhar, A.R., Uddin, M.T. and Roy, M.K. 2020. Assessment of organic shrimp farming sustainability from economic and environmental viewpoints in Bangladesh. ***Environmental Research***, 180: 108879.

Islam, M.M., Jannat, A., **Dhar, A.R.** and Ahamed, T. 2020. Factors determining conversion of agricultural land use in Bangladesh: Farmers' perceptions and perspectives of climate change. ***GeoJournal***, 85: 343-362.

Uddin, M.T., Goswami, A., Rahman, M.S. and **Dhar, A.R.** 2019. How can governance improve efficiency and effectiveness of value chains? An analysis of Pangas and Tilapia stakeholders in Bangladesh. ***Aquaculture***, 510: 206-215.

Uddin, M.T., Rasel, M.H., **Dhar, A.R.**, Badiuzzaman and Hoque, M.S. 2019. Factors determining consumer preferences for Pangas and Tilapia fish in Bangladesh: Consumers' perception and consumption habit perspective. ***Journal of Aquatic Food Product Technology***, 28(4): 438-449.

Uddin, M.T. and **Dhar, A.R.** 2018. Government input support on *Aus* rice production in Bangladesh: Impact on farmers' food security and poverty situation. ***Agriculture & Food Security***, 7: 14.

Dhar, A.R., Islam, M.M., Jannat, A. and Ahmed, J.U. 2018. Wetland agribusiness aspects and potential in Bangladesh. ***Data in Brief***, 16: 617-621.

Uddin, M.T., Hossain, N. and **Dhar, A.R.** 2019. Business prospects and challenges in *Haor* areas of Bangladesh. ***Journal of the Bangladesh Agricultural University***, 17(1): 65-72.

Uddin, M.T. and **Dhar, A.R.** 2018. Socioeconomic analysis of hydroponic fodder production in selected areas of Bangladesh: Prospects and challenges. ***SAARC Journal of Agriculture***, 16(1): 233-247.

Conferences Attended

Dhar, A.R., Oita, A. and Matsubae, K. September 2020. Impact of culture and religion on India's food phosphorus footprint. ***The 31st Annual Conference of Japan Society of Material Cycles and Waste Management (Online)***, DOI: 10.14912/jsmcwm.31.0_463.

Dhar, A.R., Oita, A. and Matsubae, K. March 2021. A time series analysis on food nitrogen footprint of Indian subcontinent associated with religious food taboos. Poster presented at ***The 16th Meeting of the Institute of Life Cycle Assessment (Online)***.

Dhar, A.R., Oita, A. and Matsubae, K. March 2021. Time series analysis on food nitrogen footprint in the Indian subcontinent associated with religious food taboos. Paper presented at ***The 14th Biennial International Conference on EcoBalance (Online)***.

Dhar, A.R., Oita, A. and Matsubae, K. May 2021. Indian food nitrogen footprint towards 2050: A Religious dietary perspective. Paper presented at ***The 8th Global Nitrogen Conference (online).***

Journal Review and Editorial Service

Reviewer SAGE Open
Aquaculture International
Environment, Development and Sustainability
Journal of Crop Improvement
Environmental Science and Pollution Research

Guest Editor SAGE Open

Analytical Skills

- Excellence in data analysis using **Microsoft Excel**, **Stata** and **SPSS**
- Moderate programming knowledge on **MATLAB** and **Python**

Fellowship and Award

- Japanese government (MEXT) Ph.D. Fellowship, Japan (2019-Present)
- Excellent Presentation Award at joint lab-seminar between Tohoku University, Japan and Ritsumeikan University, Japan

Professional Societies

- International Society for Industrial Ecology 2021-Present
- Life Cycle Assessment Society of Japan (**JLCA**) 2021-Present
- Japan Society of Material Cycles and Waste Management (**JSMCWM**) 2020-Present
- Bangladesh Economic Association (**BEA**) 2017-Present
- Bangladesh Agricultural Economist's Association (**BAEA**) 2017-Present