

# MOINUL ISLAM

I am working as an Associate Professor at Kochi University of Technology. My affiliations are listed below:

- a. School of Economics and Management, Kochi University of Technology, 2-22 Eikokuji, Kochi City, Kochi 780-8518, Japan
- b. Research Institute for Future Design, Kochi University of Technology, 2-22 Eikokuji, Kochi City, Kochi 780-8515, Japan

I have received my Doctor of Engineering (D.Eng.) degree from Kyushu University in 2016. My research focuses are:

- Environmental Science
- Environmental Economics
- Agricultural Economics
- Field Experiments
- International Economics
- Human Geography

I am experienced in econometric analysis, statistical analysis and spatial analysis. I have extensive skills to conduct quantitative research and social experiments to assess the public policy.

## EDUCATION

- 2016 • **Kyushu University**  
Doctor of Engineering (D.Eng.) 📍 Kyushu, Japan
- 2012 • **International University of Japan**  
M.A in International Development (Economics) 📍 Niigata, Japan
- 2007 • **Shahjala University of Science & Technology**  
M.S.S in Economics 📍 Sylhet, Bangladesh
- 2006 • **Shahjala University of Science & Technology**  
B.S.S in Economics 📍 Sylhet, Bangladesh

## PROFESSIONAL EXPERIENCE

- Current | 2024 • **Associate Professor**  
Kochi University of Technology 📍 Kochi, Japan
  - Work as a vice director of Research Institute for Future Design (RIFD)
  - Acquire external research funds to initiate field experiments in various developing countries
  - Supervise Ph.D. students
  - Lead and design experiments in field and laboratory

## CONTACT INFO

- ✉ [moinul.eco@gmail.com](mailto:moinul.eco@gmail.com)
- 🌐 <https://moineco.github.io/moinul/research.html>
- 🔗 <https://github.com/moineco>
- 🐦 [moinul\\_econ](#)
- 📄 <https://www.linkedin.com/in/moinul-islam-b7a140263/>

## SKILLS

- Design issue oriented empirical research to address pressing economic and environmental challenges
- Execute field, laboratory and survey experiments, and collect as well as analyze primary data to address key research questions
- Analyze secondary data, including cross sectional, time series, spatial, and panel data sets by using advanced econometric methods

## PROGRAMS

- Use regularly: R, Python, STATA, ArcGIS, LaTeX, GNU Emacs
- Use periodically: QGIS, EViews, oTree

Updated on: 2025-07-14

2024   2020	<b>Assistant Professor</b> Kochi University of Technology • Conduct environmental economics and experimental economics research • Establish the <i>Human Geography and Economics</i> laboratory	📍 Kochi, Japan
2020   2019	<b>Assistant Professor</b> Hiroshima University • Work as an assistant professor at IDEC, Hiroshima University • Teach research methodology to international graduate students	📍 Hiroshima, Japan
2019   2016	<b>Assistant Professor</b> Kyushu University • Perform environmental economics research towards understanding inclusive wealth and sustainable development • Collaborate with leading researchers in the field of environmental economics and environmental science	📍 Kyushu, Japan
2012	<b>Researcher</b> Tohoku University • Work as a research associate at Graduate School of Environmental Studies • Analyze environmental and energy data	📍 Sendai, Japan



## TEACHING EXPERIENCE

Current   2023	<b>Future Design</b> Instructor of “future design” at Kochi University of Technology	📍 Kochi, Japan
Current   2022	<b>International Economics</b> Instructor of “International Economics” at Kochi University of Technology	📍 Kochi, Japan
Current   2025	<b>Human Geography</b> Instructor of “Human Geography” at Kochi University of Technology	📍 Kochi, Japan
2024   2021	<b>Goeconomics</b> Instructor of “goeconomics” at Kochi University of Technology	📍 Kochi, Japan
2020   2019	<b>Research Methodology</b> Instructor of “research methodology” at Hiroshima University	📍 Hiroshima, Japan



## JOURNAL ARTICLES (PEER-REVIEW)

2025	<b>Rahman, M., Asma, K., Islam, M., Saijo, T., and Kotani, K. (2025). Does future design induce people to make a persistent change to sustainable food consumption?</b> <i>Food Policy</i> (forthcoming). [Q1]	📍 Bangladesh
2025	<b>Tawhidul, I., Asma, K., Islam, M., and Kotani, K. (2025). Arsenic health risks and interaction with salinity in coastal areas of Bangladesh.</b> <i>Frontiers in Public Health</i> (forthcoming). [Q1]	📍 Bangladesh
2025	<b>Rahman, M., Asma, K., Islam, M., and Kotani, K. (2025). Drivers for sustainable food purchase intentions: Prosocial attitudes for future generations and environmental concerns.</b> <i>Future Foods</i> , 11, 100609. [Q1] ( <a href="https://doi.org/10.1016/j.fufo.2025.100609">https://doi.org/10.1016/j.fufo.2025.100609</a> )	📍 Bangladesh

- 2025 ● **Sharofiddinov, H., Islam, M., Kotani, K. (2025). Adaptation indicator to climate change and farm sizes in agriculture: A reflection of farming culture and history.**  
*Ecological Indicators*, 170, 112976. [Q1] (<https://doi.org/10.1016/j.ecolind.2024.112976>) 📍 Tajikistan
- 2024 ● **Managi, S., Islam, M.\*, Zhang, D., and Flammer, C. (2024). Nature positive strategy with social and economic policy.**  
*Sustainability Science*, 1–3. [Q1] (<https://doi.org/10.1007/s11625-024-01606-2>) 📍 Global
- 2024 ● **Islam, M., Kotani, K., & Managi, S. (2024). Nature dependence and seasonality change perceptions for climate adaptation and mitigation.**  
*Economic Analysis and Policy*, 81, 34–44. [Q1] (<https://doi.org/10.1016/j.eap.2023.11.001>) 📍 Bangladesh
- 2024 ● **Husniddin, S., Islam, M., & Kotani, K. (2024). How does the number of water users in a land reform matter for water availability in agriculture?**  
*Agricultural Water Management*, 293, 108677. [Q1] (<https://doi.org/10.1016/j.agwat.2024.108677>) 📍 Tajikistan
- 2023 ● **Managi, S., Islam, M.\*, Zhang, D., Zaied, Y., & Saito, O. (2023). Natural capital accounting for sustainable cities.**  
*Sustainability Science*, 18, 2049–2051. [Q1] (<https://doi.org/10.1007/s11625-023-01356-7>) 📍 Global
- 2023 ● **Yamaguchi, R., Islam, M., and Managi, S. (2023). Natural capital and wealth accounting for sustainability assessment: A global perspective**  
*Review of Env. and Resource Econ.*, 16, 431–465. [Q2] (<http://dx.doi.org/10.1561/101.00000148>) 📍 Global
- 2022 ● **Islam, M., Zhang, B., and Managi, S. (2022). The tradeoff between natural capital and other capitals in Pakistan**  
*Sustainability Science*, 17, 1799–1811. [Q1] (<https://doi.org/10.1007/s11625-022-01143-w>) 📍 Pakistan
- 2022 ● **Managi, S., Islam, M.\*, Saito, O. et al. (2022). Valuation of nature and nature's contributions to people**  
*Sustainability Science*, 17, 701–705. [Q1] (<https://doi.org/10.1007/s11625-022-01140-z>) 📍 Global
- 2022 ● **Islam, M., and Managi, S. (2022). Valuation of nature's contribution in Ladakh, India: An inclusive wealth method**  
*Sustainability Science*, 17, 905–918. [Q1] (<https://doi.org/10.1007/s11625-021-01030-w>) 📍 India
- 2021 ● **N'dri, L., Islam, M.\*, and Kakinaka, M. (2021). ICT and environmental sustainability: Any differences in developing countries?**  
*Journal of Cleaner Production*, 297, 126642. [Q1] (<https://doi.org/10.1016/j.jclepro.2021.126642>) 📍 Developing
- 2021 ● **Badamvaanchig, M., Islam, M.\*, and Kakinaka, M. (2021). Pass-through of commodity price to Mongolian stock price: Symmetric or asymmetric?**  
*Resources Policy*, 70, 101955. [Q1] (<https://doi.org/10.1016/j.resourpol.2020.101955>) 📍 Mongolia
- 2021 ● **Hongsakhone, S., Islam, M.\*, and Ichihashi, M. (2021). Producing a village input-output table (VIOT) from household survey data: A case study of a VIOT for a rural village in northern Lao PDR**  
*Journal of Economic Structures*, 10, 1–24. (<https://doi.org/10.1186/s40008-020-00231-3>) 📍 Lao PDR
- 2021 ● **Sharifi, A., Simangan, D., Lee, C., Reyes, S., Katramiz, T., Josol, J., & Islam, M. (2021). Climate-induced stressors to peace: A review of recent literature**  
*Environmental Research Letters*, 16, 073006. [Q1] (<https://doi.org/10.1088/1748-9326/abfc08>) 📍 Global
- 2021 ● **Simangan, D., Virji, H., Hendrix, C., Islam, M., Kaneko, S., Ma, Y., Mechler, R., Pangotra, P., Peters, K., Sharifi, A. and Shams, S. (2021). A co-designed heuristic guide for investigating the peace-sustainability nexus in the context of global change**  
*Sustainability Science*, 16, 1097–1109. [Q1] (<https://doi.org/10.1007/s11625-021-00970-7>) 📍 Global

- 2020 ● **Essandoh, O. K., Islam, M.\*, and Kakinaka, M. (2020). Linking international trade and foreign direct investment to  $CO_2$  emissions: Any differences between developed and developing countries?**  
*Science of The Total Env.*, 712, 136437. [Q1] (<https://doi.org/10.1016/j.scitotenv.2019.136437>) 📍 Developing
- 2020 ● **Jingyu, W., Yuping B., Yihzong W., Zhihui L., Xiangzheng D., Islam M., and Managi S. (2020). Measuring inclusive wealth of China: Advances in sustainable use of resources**  
*Journal of Environmental Management*, 264, 110328. [Q1] (<https://doi.org/10.1016/j.jenvman.2020.110328>) 📍 China
- 2020 ● **Hotak, S., Islam, M.\*, Kakinaka, M. and Kotani, K. (2020). Carbon emissions and carbon trade balances: International evidence from panel ARDL analysis**  
*Env. Science and Pollution Res.*, 27, 24115-24128. [Q1] (<https://doi.org/10.1007/s11356-020-08478-w>) 📍 Global
- 2020 ● **Coulibaly, T., Islam, M., and Managi, S. (2020). The Impacts of climate change and natural disasters on agriculture in African countries**  
*Economics of Disasters and Climate Change*, 4, 347-363. (<https://doi.org/10.1007/s41885-019-00057-9>) 📍 Africa
- 2020 ● **Coulibaly, T., Wakamatsu, M., Islam, M., Fukai, H., Managi, S. and Zhang, B. (2020). Differences in water policy efficacy across South African water management areas**  
*Ecological Economics*, 175, 106707. [Q1] (<https://doi.org/10.1016/j.ecolecon.2020.106707>) 📍 South Africa
- 2019 ● **Islam, M., and Managi, S. (2019). Green growth and pro-environmental behavior: Sustainable resource management using natural capital accounting in India**  
*Resources Conservation and Recycl.*, 145, 126-138. [Q1] (<https://doi.org/10.1016/j.resconrec.2019.02.027>) 📍 India
- 2019 ● **Managi, S., Islam, M., Saito, O., Stenseke, M., Dziba, L., Lavorel, S., Pascual, U., and Hashimoto, S. (2019). Valuation of nature and nature's contributions to people**  
*Sustainability Science*, 1463-1465. [Q1] (<https://doi.org/10.1007/s11625-019-00732-6>) 📍 Global
- 2019 ● **Islam, M., Kanemoto, K., and Managi, S. (2019). Growth potential for  $CO_2$  emissions transfer by tariff reduction**  
*Env. Research Let.*, 14, 024011. [Q1] (<https://iopscience.iop.org/article/10.1088/1748-9326/aaf688/meta>) 📍 Global
- 2019 ● **Yamaguchi, R., Islam, M., and Managi, S. (2019). Inclusive wealth in the 21st century**  
*Letters in Spatial and Resource Sciences*, 12, 101-111. [Q2] (<https://doi.org/10.1007/s12076-019-00229-x>) 📍 Global
- 2019 ● **Ying Lee, C., Lotsu, S., Islam, M.\*, Yoshida, Y., and Kaneko, S. (2019). The Impact of an energy efficiency improvement policy on the economic performance of electricity-intensive firms in Ghana**  
*Energies*, 12, 3684. [Q3] (<https://doi.org/10.3390/en12193684>) 📍 Ghana
- 2018 ● **Islam, M., Yamaguchi, R., Sugiawan, Y., and Managi, S. (2018). Valuing natural capital and ecosystem services: A literature review**  
*Sustainability Science*, 14, 159-174. [Q1] (<https://doi.org/10.1007/s11625-018-0597-7>) 📍 Global
- 2018 ● **Islam, M., and Managi, S. (2018). Sustainable adaptation to multiple water risks in agriculture: Evidence from Bangladesh**  
*Sustainability (Switzerland)*, 10(6). [Q2] (<https://doi.org/10.3390/su10061734>) 📍 Bangladesh
- 2018 ● **Rajapaksa, D., Islam, M., and Managi, S. (2018). Pro-environmental behavior: The role of public perception in infrastructure and the social factors for sustainable development**  
*Sustainability (Switzerland)*, 10, 937. [Q2] (<https://doi.org/10.3390/su10040937>) 📍 Global
- 2018 ● **Tolliver, C., Islam, M., Shin, K., and Managi, S. (2018). The impact of energy security risks on energy consumption**  
*Int. Journal of Innovation and Sust. Dev.*, 12, 258-270. [Q4] (<https://doi.org/10.1504/IJISD.2018.091522>) 📍 Global

- 2017 ● **Sugiawan, Y., Islam, M., and Managi, S. (2017). Global marine fisheries with environmental sustainability**  
*Economic Analysis and Policy*, 55, 158-168. [Q1] (<https://doi.org/10.1016/j.eap.2017.08.004>) 📍 Global
- 2017 ● **Rajapaksa, D., Islam, M., and Managi, S. (2017). Natural capital depletion: The impact of natural disasters on inclusive growth**  
*Economics of Disasters and Climate Change*, 1, 233-244. (<https://doi.org/10.1007/s41885-017-0009-y>) 📍 Global
- 2016 ● **Islam, M., Kanemoto, K., and Managi, S. (2016). Impact of trade openness and sector trade on embodied greenhouse gases emissions and air pollutants**  
*Journal of Industrial Ecology*, 20, 494-505. [Q1] (<https://doi.org/10.1111/jiec.12455>) 📍 Global
- 2016 ● **Islam, M., Kotani, K., and Managi, S. (2016). Climate perception and flood mitigation cooperation: A Bangladesh case study**  
*Economic Analysis and Policy*, 49, 117-133. [Q1] (<https://doi.org/10.1016/j.eap.2016.01.001>) 📍 Bangladesh
- 2016 ● **Islam, M., and Kotani, K. (2016). Changing seasonality in Bangladesh**  
*Regional Environmental Change*, 16, 585-590. [Q2] (<https://doi.org/10.1007/s10113-015-0758-5>) 📍 Bangladesh



## INTERNATIONAL POLICY REPORTS (PEER-REVIEW)

- 2023 ● **Inclusive wealth report 2023**  
United Nation Environmental Program (UNEP) 📍 Global
- 2022 ● **Inclusive wealth of Pakistan: The case for investing in natural capital and restoration**  
United Nation Environmental Program (UNEP) 📍 Pakistan
- 2022 ● **Future design: For the survival of humankind**  
Think7: Research-based policy recommendations for the G7 📍 Global



## BOOK CHAPTERS (PEER-REVIEW)

- 2021 ● **Islam, M., and Managi, S. (2021). Global human capital: View from inclusive wealth**  
In measuring human capital (pp. 39-54). Academic Press. ISBN: 9780128190579. 📍 Global
- 2019 ● **Sugiawan, Y., Islam, M., and Managi, S. (2019). Global marine fisheries with environmental sustainability**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 Global
- 2019 ● **Sankaralingam, I., Islam, M., Nozawa, W., and Managi, S. (2019). Impact of infrastructure in India. In Wealth, Inclusive Growth and Sustainability**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 India
- 2019 ● **Jumbri, I., Islam, M., and Managi, S. (2019). Inclusive wealth adjusted by total factor productivity as a sustainable measurement: global productivity analysis**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 Global
- 2019 ● **Coulibaly, T., Islam, M., and Managi, S. (2019). The impact of climate change and extreme events on agriculture in Africa**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 Africa
- 2019 ● **Qiuyi, C., Islam, M., and Managi, S. (2019). Human capital change and social impact under China's universal two-child policy**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 China

- 2019 ● **Mahful, R., Islam, M., Nakayam, H., and Managi, S. (2019). The effect of landfill gas emission on global warming and workers' health in Indonesia**  
In wealth, inclusive growth and sustainability. Routledge, New York, USA. 📍 Indonesia

## INTERNATIONAL CONFERENCES AND SYMPOSIUMS

- 2024 ● **Can future design persistently improve indoor air quality?**  
The 8th International Symposium on Frontier Technology (Kochi University of Technology), 📍 Kochi, Japan
- 2023 ● **Future design (FD) social experiments**  
17th association of behavioral economics and finance conference (Kochi University of Technology) 📍 Kochi, Japan
- 2023 ● **Relationship of trade openness and renewable energy with inorganic nitrogen intensity in ecosystem**  
SEEPS workshop 2023 (Kyushu University) 📍 Kyushu, Japan
- 2022 ● **Future design workshop on inequality**  
4th International conference on anticipation (Arizona State University) 📍 Arizona, USA
- 2022 ● **Nitrogen cycle and intergenerational sustainability**  
Future design 2022 📍 Kochi, Japan
- 2021 ● **Inclusive wealth of nations**  
Q-AOS symposium on inclusive growth (Kyushu University) 📍 Kyushu, Japan
- 2019 ● **Growth potential for CO<sub>2</sub> emissions transfer by United States–China trade battle**  
SEEPS 2019 annual conference (Fukushima University) 📍 Fukushima, Japan
- 2018 ● **Natural capital of nations for sustainable development**  
IPSA world congress of political science 📍 Brisbane, Australia
- 2018 ● **Inclusive wealth accounting**  
Joint Tianjin University-Kyushu University workshop on economics (Tianjin University) 📍 Tianjin, China
- 2018 ● **Natural capital of nations**  
Workshop on sustainability, SDGs and security (Kyushu University) 📍 Kyushu, Japan
- 2013 ● **Farmer's adaptation strategy in Bangladesh**  
SEEPS (Kobe University) 📍 Kobe, Japan

## RESEARCH GRANTS

- 2025  
|  
2028 ● **Grants-in-Aid for Scientific Research from the Japanese government. Category: Grant-in-Aid for Scientific Research (C). Principal investigator: Moinul Islam. Grant number: 25K05109.**  
JSPS 📍 Japan
- 2025  
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2021 ● **Grants-in-Aid for Scientific Research from the Japanese government. Category: Grant-in-Aid for Early-Career Scientists. Principal investigator: Moinul Islam. Grant number: 21K13290.**  
JSPS 📍 Japan
- 2027  
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2022 ● **Grants-in-Aid for Scientific Research from the Japanese government. Category: Fund for the Promotion of Joint International Research. Principal Investigator: Koji Kotani. Grant number: 22KK0020.**  
JSPS 📍 Japan

2021  
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2019

- **Grants-in-Aid for Scientific Research from the Japanese government. Category: Grant-in-Aid for Research Activity Start-up. Principal investigator: Moinul Islam. Grant number: 19K24384.**  
JSPS 📍 Japan



## WORKING PAPERS

2024

- **Rahman, M., Asma, K., Islam, M., Saijo, T., and Kotani, K. Does future design induce people to make a persistent change to sustainable food consumption?**  
Working Papers SDES-2024-4, Kochi University of Technology, School of Economics and Management 📍 Bangladesh

2024

- **Husniddin, S., Islam, M., and Kotani, K. Farm sizes and adaptation responses to climate change in agriculture: A reflection of Tajikistan's farming culture and history.**  
Working Papers SDES-2024-2, Kochi University of Technology, School of Economics and Management 📍 Tajikistan

2023

- **Husniddin, S., Islam, M., and Kotani, K. How does the number of water users in a land reform matter for irrigation water availability?**  
Working Papers SDES-2023-5, Kochi University of Technology, School of Economics and Management 📍 Tajikistan

2022

- **Husniddin, S., Islam, M., and Kotani, K. Does the reorganization of large agricultural farms decrease irrigation water availability? A case study of Tajikistan**  
Working Papers SDES-2022-3, Kochi University of Technology, School of Economics and Management 📍 Tajikistan

2020

- **Islam, M., and Kotani, K. Who perceive seasonality change? A case of the Meghna basin, Bangladesh**  
Working Papers SDES-2020-15, Kochi University of Technology, School of Economics and Management 📍 Bangladesh

2014

- **Islam, M., and Kotani, K. Six or four seasons? An evidence for seasonal change in Bangladesh**  
Working Papers SDES-2014-11, Kochi University of Technology, School of Economics and Management, 📍 Bangladesh

2013

- **Islam, M., and Kotani, K. Six or four seasons? Perceptions of climatic changes and people's cooperative attitudes toward food protection in Bangladesh**  
Working Paper EMS-2013-06, International University of Japan, Economics & Management Series 📍 Bangladesh



## PROJECT EXPERIENCE

Current  
|  
2016

- **United Nations Environmental Program (UNEP)**  
Inclusive Wealth Project 📍 Kyushu, Japan
  - Collect data to measure the "Inclusive Wealth of Nations"
  - Analyze data and create "Inclusive Wealth Index"
  - Publish the "Inclusive Wealth Report" report as a contributing author

2016  
|  
2013

- **Research Institute of Economy, Trade and Industry (RIETI)**  
Economic analysis and policy 📍 Kyushu, Japan
  - Collect and analyze the trade and emission data of Japan
  - Prepare the report based on the empirical findings

2012

- **Strategic Energy and Resource Management and Sustainable Solutions (SERMS)**  
Environmental economics and policy 📍 Sendai, Japan
  - Analyze the natural disaster data of the Great East Japan Earthquake
  - Prepare the report based on the empirical findings



## PEER REVIEWER

2025   2016	● <b>Economic Analysis and Policy</b> 12 papers	📍 Elsevier
2022	● <b>Journal of Cleaner Production</b> 3 paper	📍 Elsevier
2018	● <b>Environmental Research Letters</b> 2 paper	📍 IOPScience
2025	● <b>Journal of Industrial Ecology</b> 1 paper	📍 Wiley
2021	● <b>Environmental Science and Pollution Research</b> 3 paper	📍 Springer
2020	● <b>Global Sustainability</b> 2 paper	📍 Cambridge University Press
2025   2016	● <b>Sustainability Science</b> 5 papers	📍 Springer
2023	● <b>Journal of Behavioral and Experimental Economics</b> 2 paper	📍 Springer



## SCHOLARLY MEMBERSHIPS

Current	● <b>AERE</b> Association of Environmental and Resource Economists	📍 United States
Current	● <b>SEEPS</b> Society for Environmental Economics and Policy Studies	📍 Japan