

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:

- Applied Microeconomics
- Behavioral Data Science
- Field Experiments
- International Economics
- Sustainability Science

I am experienced in econometric analysis, statistical analysis and spatial analysis. My mission is to Identify gaps between current and ideal societal systems to conceptualize research questions at the nexus of economics, environment, and public policy, while addressing them using rigorous economic as well as experimental methods to advance sustainable human–nature coexistence.

🎓 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[at]gmail.com
- 🌐 <https://moineco.github.io/moinul/research.html>
- /github <https://github.com/moineco>
- linkedin <https://www.linkedin.com/in/moinul-islam-b7a140263/>

SKILLS

Design issue oriented empirical research to address pressing economic and environmental challenges

Conduct 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

MY VISION

Design a future where our daily behavior fosters human–nature coexistence

PROGRAMS

R, Python, STATA, ArcGIS, LaTeX, GNU Emacs, Lisp, EViews, oTree

Updated on: 2026-01-01

2024 2020	● Assistant Professor Kochi University of Technology <ul style="list-style-type: none">• Conduct environmental economics and experimental economics research• Establish the <i>Human Geography and Economics</i> laboratory	📍 Kochi, Japan
2020 2019	● Assistant Professor Hiroshima University <ul style="list-style-type: none">• Work as an assistant professor at IDEC, Hiroshima University• Teach research methodology to international graduate students	📍 Hiroshima, Japan
2019 2016	● Assistant Professor Kyushu University <ul style="list-style-type: none">• 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	● Researcher Tohoku University <ul style="list-style-type: none">• Work as a research associate at Graduate School of Environmental Studies• Analyze environmental and energy data	📍 Sendai, Japan

💻 TEACHING EXPERIENCE

Current 2023	● Future Design Instructor of "future design" at Kochi University of Technology	📍 Kochi, Japan
Current 2022	● International Economics Instructor of "International Economics" at Kochi University of Technology	📍 Kochi, Japan
Current 2025	● Human Geography Instructor of "Human Geography" at Kochi University of Technology	📍 Kochi, Japan
2024 2021	● Geoeconomics Instructor of "geoeconomics" at Kochi University of Technology	📍 Kochi, Japan
2020 2019	● Research Methodology Instructor of "research methodology" at Hiroshima University	📍 Hiroshima, Japan

📘 JOURNAL ARTICLES (PEER-REVIEW)

2025	● 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? <i>Food Policy</i> , 135, 102916. [Q1] https://doi.org/10.1016/j.foodpol.2025.102916 .	📍 Bangladesh
2025	● Tawhidul, I., Asma, K., Islam, M., and Kotani, K. (2025). Arsenic health risks and interaction with salinity in coastal areas of Bangladesh. <i>Frontiers in Public Health</i> , 13, 1610311. [Q1] https://doi.org/10.3389/fpubh.2025.1610311 .	📍 Bangladesh
2025	● Rahman, M., Asma, K., Islam, M., and Kotani, K. (2025). Drivers for sustainable food purchase intentions: Prosocial attitudes for future generations and environmental concerns. <i>Future Foods</i> , 11, 100609. [Q1] https://doi.org/10.1016/j.fufo.2025.100609	📍 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 Lett., 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

📁 WORKING PAPERS

- 2025 ● **Sharofiddinov, H., Islam, M., Yutaka, K., and Kotani, K. Input-price uncertainty and land allocation decisions by farmers**
Working Papers [SDES-2025-12](#), Kochi University of Technology, School of Economics and Management. 📍 Tajikistan
- 2025 ● **Tomohiro, S., Islam, M., and Kotani, K. People's preferences for future development scenarios in Miyako Island, Japan**
Working Papers [SDES-2025-11](#), Kochi University of Technology, School of Economics and Management. 📍 Japan
- 2025 ● **Islam, M., Hagimoto, N., Timilsina, R., and Kotani, K. Accountability for future generations**
Working Papers [SDES-2025-10](#), Kochi University of Technology, School of Economics and Management. 📍 Global
- 2025 ● **Ovsiannikov, K., Islam, M., and Kotani, K. Median voting and intergenerational sustainability under intragenerational inequality**
Working Papers [SDES-2025-7](#), Kochi University of Technology, School of Economics and Management. 📍 Global
- 2025 ● **Asma, K., Islam, M., Saijo, T., and Kotani, K. A future design social experiment for sustainable agricultural production**
Working Papers [SDES-2025-3](#), Kochi University of Technology, School of Economics and Management. 📍 Bangladesh
- 2024 ● **Nasu, Y., Tawhidul, I., Islam, M., and Kotani, K. Intragenerational inequality and intergenerational sustainability**
Working Papers [SDES-2024-7](#), Kochi University of Technology, School of Economics and Management. 📍 Global
- 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

INTERNATIONAL POLICY REPORTS (PEER-REVIEW)

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

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. 
- 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. 
- 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. 
- 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. 
- 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. 
- 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. 
- 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. 

INTERNATIONAL CONFERENCES AND SYMPOSIUMS

- 2025 ● **Can future design persistently improve indoor air quality?**
The 30th SEEPS Annual Conference  Musashi University, Tokyo, Japan
- 2025 ● **Can future design persistently improve indoor air quality?**
Australian New Zealand Workshop in Experimental Economics (ANZWEE) 2025  Macquarie University, Sydney, Australia
- 2025 ● **Future Design for Public Health: Evidence from Rural Bangladesh**
School of Business Research Seminar Series 2025  University of Western Sydney, Australia,
- 2024 ● **Can future design persistently improve indoor air quality?**
The 29th SEEPS Annual Conference  Kansai University, Osaka, Japan
- 2024 ● **Can future design persistently improve indoor air quality?**
The 8th International Symposium on Frontier Technology,  Kochi University of Technology, Japan
- 2023 ● **Future design (FD) social experiments**
17th Association of Behavioral Economics and Finance Conference  Kochi University of Technology, Japan
- 2023 ● **Relationship of trade openness and renewable energy with inorganic nitrogen intensity in ecosystem**
SEEPS Workshop 2023  Kyushu University, Japan
- 2022 ● **Future design workshop on inequality**
4th International Conference on Anticipation  Arizona State University, 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, Japan
- 2019 ● **Growth potential for CO2 emissions transfer by United States–China trade battle**
SEEPS 2019 annual conference  Fukushima University, 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, China
- 2018 ● **Natural capital of nations**
Workshop on sustainability, SDGs and security  Kyushu University, Japan
- 2013 ● **Farmer's adaptation strategy in Bangladesh**
SEEPS 2018 annual conference  Kobe University, 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 | 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
|
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
|
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

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



SCHOLARLY MEMBERSHIPS

Current



AERE

Association of Environmental and Resource Economists

United States

Current



SEEPS

Society for Environmental Economics and Policy Studies

Japan