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

2024 | 2020 — **Assistant Professor**
Kochi University of Technology — Kochi, Japan

2020 | 2019 — **Assistant Professor**
Hiroshima University — Hiroshima, Japan

CONTACT INFO

moinul.eco[at]gmail.com

https://moineco.github.io/moinul/research.html

https://github.com/moineco

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: 2026-01-02

2019 | 2016 **Assistant Professor**
Kyushu University — Kyushu, Japan

2012 **Researcher**
Tohoku University — 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?**
Food Policy, 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.**
Frontiers in Public Health, 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.**
Future Foods, 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 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

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) — 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

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