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

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

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

https://github.com/moineco

moinul_econ

https://www.linkedin.com/in/moinul-islam-b7a140263/

SKILLS

Deign 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

Assistant Professor
Kochi University of Technology — Kochi, Japan
- Conduct environmental economics and experimental economics research
- Establish the *Human Geography and Economics* laboratory

2020 | 2019

Assistant Professor
Hiroshima University — Hiroshima, Japan
- Work as an assistant professor at IDEC, Hiroshima University
- Teach research methodology to international graduate students

2019 | 2016

Assistant Professor
Kyushu University — Kyushu, Japan
- Perform environmental economics research towards understanding inclusive wealth and sustainable development
- Collaborate with leading researchers in the field of environmental economics and environmental science

2012

Researcher
Tohoku University — Sendai, Japan
- Work as a research associate at Graduate School of Environmental Studies
- Analyze environmental and energy data

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 (forthcoming). [Q1] — 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 (forthcoming). [Q1] — 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

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_2 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 | 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

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 **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