

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 Ph.D. in engineering degree with **applied economics** concentration from Kyushu University in 2016. My research focuses are:

- Applied Economics
- Environmental Economics
- Environmental Science
- Experimental Economics
- Public Policy

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
Ph.D. in Engineering | 📍 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 |
| <ul style="list-style-type: none">• 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://twitter.com/moinul_econ)

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

SKILLS

Conduct issue oriented empirical research

Explore research that integrates applied economics, environmental economics, environmental science, experimental economics, and public policy.

Experienced in econometric analysis, statistical analysis and spatial analysis

PROGRAMS

Use regularly: R, Python, STATA, LaTeX, GNU Emacs

Use periodically: ArcGIS, QGIS, EViews, oTree

2024 2020	Assistant Professor Kochi University of Technology • Conduct environmental economics and experimental economics research • Establish the <i>Human Geography and Economics</i> laboratory	📍 Kochi, Japan
2020 2019	Assistant Professor Hiroshima University • Work as an assistant professor at IDEC, Hiroshima University • Teach research methodology to international graduate students	📍 Hiroshima, Japan
2019 2016	Assistant Professor 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	Researcher Tohoku University • 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 Trade and Finance Instructor of “international trade and finance” at Kochi University of Technology	📍 Kochi, Japan
Current 2021	Goeconomics Instructor of “goeconomics” 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	Sharofiddinov, H., <u>Islam, M.</u>, Kotani, K. (2025). Adaptation indicator to climate change and farm sizes in agriculture: A reflection of farming culture and history. <i>Ecological Indicators</i> , 170, 112976. [Q1] (https://doi.org/10.1016/j.ecolind.2024.112976)	📍 Tajikistan
2024	Managi, S., <u>Islam, M.*</u>, Zhang, D., and Flammer, C. (2024). Nature positive strategy with social and economic policy. <i>Sustainability Science</i> , 1–3. [Q1] (https://doi.org/10.1007/s11625-024-01606-2)	📍 Global
2024	<u>Islam, M.</u>, Kotani, K., & Managi, S. (2024). Nature dependence and seasonality change perceptions for climate adaptation and mitigation. <i>Economic Analysis and Policy</i> , 81, 34-44. [Q1] (https://doi.org/10.1016/j.eap.2023.11.001)	📍 Bangladesh
2024	Husniddin, S., <u>Islam, M.</u>, & Kotani, K. (2024). How does the number of water users in a land reform matter for water availability in agriculture? <i>Agricultural Water Management</i> , 293, 108677. [Q1] (https://doi.org/10.1016/j.agwat.2024.108677)	📍 Tajikistan

- 2023 ● **Managi, S., Islam, M.*, Zhang, D., Zaid, 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 CO₂ 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 CO₂ 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
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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
|
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" • Publish the "Inclusive Wealth Report" report as a contributing author
 • Analyze data and create "Inclusive Wealth Index"
- 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