# 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:

- Sustainability Science
- Environmental Economics
- Public Policy
- Field Experiments
- International Economics
- Human Geography
- Economic Data Science

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.)

Yushu, 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

Shahjala University of Science & Technology

B.S.S in Economics

Sylhet, Bangladesh

## PROFESSIONAL EXPERIENCE

Current | 2024

2006

#### 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
- https://github.com/moineco
- in 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, Lisp

Use periodically: QGIS, EViews, oTree, Microsoft Office

Updated on: 2025-07-17

2024   2020	<ul> <li>Assistant Professor         Kochi University of Technology         Conduct environmental economics and experimental economics research         Establish the Human Geography and Economics laboratory     </li> </ul>	<b>♥</b> Kochi, Japan
2020   2019	<ul> <li>Assistant Professor Hiroshima University</li> <li>Work as an assistant professor at IDEC, Hiroshima University</li> <li>Teach research methodology to international graduate students</li> </ul>	♥ Hiroshima, Japan
2019   2016	<ul> <li>Assistant Professor         Kyushu University         Perform environmental economics research towards understanding inclusive wealth and sust         Collaborate with leading researchers in the field of environmental economics and environmental     </li> </ul>	
2012	<ul> <li>Researcher         Tohoku University         Work as a research associate at Graduate School of Environmental Studies         Analyze environmental and energy data     </li> </ul>	<b>♥</b> Sendai, Japan
	TEACHING EXPERIENCE	
Current   2023	Future Design     Instructor of "future design" at Kochi University of Technology	<b>♥</b> Kochi, Japan
Current   2022	<ul> <li>International Economics</li> <li>Instructor of "International Economics" at Kochi University of Technology</li> </ul>	<b>♥</b> Kochi, Japan
Current   2025	<ul> <li>Human Geography         Instructor of "Human Geography" at Kochi University of Technology     </li> </ul>	<b>♥</b> Kochi, Japan
2024   2021	Geoeconomics  Instructor of "geoeconomics" at Kochi University of Technology	<b>♥</b> Kochi, Japan
2020   2019	<ul> <li>Research Methodology         Instructor of "research methodology" at Hiroshima University     </li> </ul>	♥ Hiroshima, Japan
	JOURNAL ARTICLES (PEER-REVIEW)	
2025	<ul> <li>Rahman, M., Asma, K., Islam, M., Saijo, T., and Kotani, K. (2025). Does future do to make a persistent change to sustainable food consumption?</li> <li>Food Policy (forthcoming). [Q1]</li> </ul>	esign induce people  • Bangladesh
2025	<ul> <li>Tawhidul, I., Asma, K., Islam, M., and Kotani, K. (2025). Arsenic health risks and salinity in coastal areas of Bangladesh.</li> <li>Frontiers in Public Health (forthcoming). [Q1]</li> </ul>	d interaction with  • Bangladesh
2025	Rahman, M., Asma, K., Islam, M., and Kotani, K. (2025). Drivers for sustainable intentions: Prosocial attitudes for future generations and environmental concertuture Foods, 11, 100609. [Q1] (https://doi.org/10.1016/j.fufo.2025.100609)	food purchase

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.	
		Ecological Indicators, 170, 112976. [Q1] (https://doi.org/10.1016/j.ecolind.2024.112976)    ◆ Tajikis	stan
2024	•	Managi, S., <u>Islam, M.*</u> , Zhang, D., and Flammer, C. (2024). Nature positive strategy with social and economic policy.	d
		Sustainability Science, 1–3. [Q1] (https://doi.org/10.1007/s11625-024-01606-2)	obal
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)	
2024	Ī	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)	
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)	obal
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)	obal
2022		Islam, M., Zhang, B., and Managi, S. (2022). The tradeoff between natural capital and other capital in Pakistan	
		Sustainability Science, 17, 1799-1811. [Q1] (https://doi.org/10.1007/s11625-022-01143-w)	3tan
2022	Ĭ	Managi, S., <u>Islam, M.*,</u> 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)	obal
2022	•	<u>Islam, M.</u> , and Managi, S. (2022). Valuation of nature's contribution in Ladakh, India: An inclusive wealth method	
		_	ndia
2021	•	N'dri, L., <u>Islam, M.*</u> , and Kakinaka, M. (2021). ICT and environmental sustainability: Any difference in developing countries?	)S
		Journal of Cleaner Production, 297, 126642. [Q1] (https://doi.org/10.1016/j.jclepro.2021.126642)   ◆ Develop	oing
2021	•	Badamvaanchig, M., <u>Islam, M.*</u> , 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)	,
2021		Hongsakhone, S., <u>Islam, M.*</u> , and Ichihashi, M. (2021). Producing a village input-output table (VIO from household survey data: A case study of a VIOT for a rural village in northern Lao PDR <i>Journal of Economic Structures</i> , 10, 1-24. (https://doi.org/10.1186/s40008-020-00231-3)	
0001		Sharifi, A., Simangan, D., Lee, C., Reyes, S., Katramiz, T., Josol, J., & Islam, M. (2021). Climate-	DIT
2021		induced stressors to peace: A review of recent literature  Environmental Research Letters, 16, 073006. [Q1] (https://doi.org/10.1088/1748-9326/abfc08)	obal
2021	•	Simangan, D., Virji, H., Hendrix, C., <u>Islam, M.</u> , Kaneko, S., Ma, Y., Mechler, R., Pangotra, P., Peters, Sharifi, A. and Shams, S. (2021). A co-designed heuristic guide for investigating the peace-	K.,
		sustainability nexus in the context of global change  Sustainability Science, 16, 1097-1109. [Q1] (https://doi.org/10.1007/s11625-021-00970-7)	obal

0000	_	Essandoh, O. K., <u>Islam, M.*</u> , and Kakinaka, M. (2020). Linking international trade and foreign direct
2020		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) $\bigcirc$ Developing
2020	•	Jingyu, W., Yuping B., Yihzong W., Zhihui L., Xiangzheng D., <u>Islam M.</u> , 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., <u>Islam, M.*</u> , 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)
2020		Coulibaly, T., Islam, M., and Managi, S. (2020). The Impacts of climate change and natural disasters
2020		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., <u>Islam, M.</u> , 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., <u>Islam, M.</u> , 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)
2019	•	<u>Islam, M.</u> , 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., <u>Islam, M.</u> , 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)
2019	•	Ying Lee, C., Lotsu, S., <u>Islam, M.*</u> , Yoshida, Y., and Kaneko, S. (2019). The Impact of an energy efficiency improvement policy on the economic performance of electricity-intensive firms in Ghana <i>Energies</i> , 12, 3684. [Q3] (https://doi.org/10.3390/en12193684)
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)
0010		Sustainability Science, 14, 159-174. [Q1] (https://doi.org/10.1007/s11625-018-0597-7)   Q Global Islam, M., and Managi, S. (2018). Sustainable adaptation to multiple water risks in agriculture:
2018	Ĭ	Evidence from Bangladesh  Sustainability (Switzerland), 10(6). [Q2] (https://doi.org/10.3390/su10061734)
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)
2018	•	Tolliver, C., Islam, M., Shin, K., and Managi, S. (2018). The impact of energy security risks on energy
	1	consumption  Int. Journal of Innovation and Sust. Dev., 12, 258–270. [Q4] (https://doi.org/10.1504/IJISD.2018.091522)   ♥ Global

0017		Sugiawan, Y., <u>Islam, M.</u> , and Managi, S. (2017). Global marine fisheries with environmental	
2017		sustainability  Economic Analysis and Policy, 55, 158-168. [Q1] (https://doi.org/10.1016/j.eap.2017.08.004)	Global
2017	•	Rajapaksa, D., <u>Islam, M.</u> , 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)	
2016		Islam, M., Kanemoto, K., and Managi, S. (2016). Impact of trade openness and sector trade of embodied greenhouse gases emissions and air pollutants  Journal of Industrial Ecology, 20, 494-505. [Q1] (https://doi.org/10.1111/jiec.12455)	on ♥ Global
2016	•	<u>Islam, M.</u> , Kotani, K., and Managi, S. (2016). Climate perception and flood mitigation cooperable Bangladesh case study	
		Economic Analysis and Policy, 49, 117-133. [Q1] (https://doi.org/10.1016/j.eap.2016.01.001)    ● E	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
	<del>-</del>	INTERNATIONAL POLICY REPORTS (PEER-REVIEW)	
2023	•	Inclusive wealth report 2023 United Nation Environmental Program (UNEP)	<b>♀</b> Global
2022	•	Inclusive wealth of Pakistan: The case for investing in natural capital and restoration United Nation Environmental Program (UNEP)	<b>♀</b> 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.	<b>♀</b> Global
2019	•	Sugiawan, Y., <u>Islam, M.</u> , and Managi, S. (2019). Global marine fisheries with environmental sustainability	
		In wealth, inclusive growth and sustainability. Routledge, New York, USA.	♥ Global
2019		Sankaralingam, I., <u>Islam, M.</u> , Nozawa, W., and Managi, S. (2019). Impact of infrastructure in I Wealth, Inclusive Growth and Sustainability In wealth, inclusive growth and sustainability. Routledge, New York, USA.	ndia. In ♥ India
2019	•	Jumbri, I., Islam, M., and Managi, S. (2019). Inclusive wealth adjusted by total factor product	tivity 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 ev	ents 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 C	hina's
	I	universal two-child policy In wealth, inclusive growth and sustainability. Routledge, New York, USA.	◆ China

2019	•	Mahful, R., <u>Islam, M.</u> , 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.	<b>♥</b> 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),	<b>♥</b> Kochi, Japan
2023		Future design (FD) social experiments  17th association of behavioral economics and finance conference (Kochi University of Techno	ology) <b>©</b> Kochi, Japan
2023		Relationship of trade openness and renewable energy with inorganic nitrogen inte ecosystem SEEPS workshop 2023 (Kyushu University)	e <b>nsity in</b> <b>♥</b> 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	<b>♥</b> Kochi, Japan
2021	•	Inclusive wealth of nations Q-AOS symposium on inclusive growth (Kyushu University)	<b>♥</b> Kyushu, Japan
2019	•	Growth potential for $CO_2$ emissions transfer by United States–China trade battle SEEPS 2019 annual conference (Fukushima University)	<b>♥</b> 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)	<b>♥</b> Tianjin, China
2018	•	Natural capital of nations Workshop on sustainability, SDGs and security (Kyushu University)	<b>♥</b> Kyushu, Japan
2013	•	Farmer's adaptation strategy in Bangladesh SEEPS (Kobe University)	<b>♥</b> Kobe, Japan
	$\Box$	RESEARCH GRANTS	
2025	•	Grants-in-Aid for Scientific Research from the Japanese government. Category: G Scientific Research (C). Principal investigator: <u>Moinul Islam</u> . Grant number: 25K05	109.
2028		JSPS	<b>♥</b> Japan
2025   2021		Grants-in-Aid for Scientific Research from the Japanese government. Category: G Early-Career Scientists. Principal investigator: Moinul Islam. Grant number: 21K13 JSPS	
2027	•	Grants-in-Aid for Scientific Research from the Japanese government. Category: Fromotion of Joint International Research. Principal Investigator: Koji Kotani. Gra	
2022		<b>22KK0020.</b> JSPS	<b>♀</b> 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	
		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., <u>Islam, M.</u> , 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., <u>Islam, M.</u> , 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., <u>Islam, M.</u> , 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  ■ Bangladesh	
Current   2016		PROJECT EXPERIENCE  United Nations Environmental Program (UNEP) Inclusive Wealth Project  • 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	
2012		Strategic Energy and Resource Management and Sustainable Solutions (SERMS)  Environmental economics and policy  ◆ Analyze the natural disaster data of the Great East Japan Earthquake  ◆ Prepare the report based on the empirical findings	

2025	Economic Analysis and Policy	
 2016	12 papers	<b>♥</b> Elsevier
2022	<ul><li>Journal of Cleaner Production</li><li>3 paper</li></ul>	<b>♥</b> Elsevier
2018	<ul><li>Environmental Research Letters</li><li>2 paper</li></ul>	<b>♥</b> IOPScience
2025	Journal of Industrial Ecology     paper	<b>♥</b> Wiley
2021	<ul> <li>Environmental Science and Pollution Research</li> <li>3 paper</li> </ul>	<b>♥</b> Springer
2020	<ul><li>Global Sustainability</li><li>2 paper</li></ul>	◆ Cambridge University Press
2025   2016	<ul><li>Sustainability Science</li><li>5 papers</li></ul>	<b>♥</b> Springer
2023	Journal of Behavioral and Experimental Economics 2 paper	<b>♥</b> Springer
	SCHOLARLY MEMBERSHIPS	
Current	AERE     Association of Environmental and Resource Economists	United States
Current	SEEPS     Society for Environmental Economics and Policy Studies	<b>♀</b> Japan

PEER REVIEWER