

## Appendix - A

### ASHUTOSH SARKER

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I am an economist with extensive research and teaching experience at the intersection of institutional economics, neuroscience, and common property resource management within the diverse contexts of Southeast Asia and beyond. • Have conducted experimental neuroeconomics research focused on public goods game • Have teaching and research experience obtained from Monash University Malaysia, Yokohama National University (Japan), the University of Queensland (Australia), University of British Columbia (Canada), and Niigata University (Japan) • Have published 17 papers, including 5 articles in Excellence in Research for Australia (ERA)/Journal Citation Reports (JCR)-ranked A\*-ranked journals and 4 in A-ranked journals (e.g., *Ecological Economics*, *Rural Studies*, *Public Administration*, *Human Ecology*, and *Society and Natural Resources*) • Have developed multiple multidisciplinary research teams comprising scholars from Monash University Malaysia and overseas universities • Have secured ten internal and external research grants from organizations that include the Ministry of Higher Education in Malaysia, Research Institute for Humanity and Nature in Japan, and the Sumitomo Foundation of Japan (external research grants total RM155,500) • Have presented at international conferences in Australia, Canada, the US, Italy, the UK, Japan, Brazil, Hong Kong, and the Philippines (**Professor Elinor Ostrom, Nobel Laureate in Economics**, invited me to give colloquium presentations, on three occasions, at Indiana University in the US).

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#### Education

1998	<b>Doctor of Philosophy</b> ( <i>Agricultural Economics</i> ) Niigata University, Niigata, Japan	<b>GPA:</b> 4.0 on a 4.0 scale
1995	<b>Master of Agriculture</b> ( <i>Agricultural Economics</i> ) Niigata University, Niigata, Japan	<b>GPA:</b> 4.0 on a 4.0 scale
1991	<b>Bachelor of Science</b> ( <i>Agricultural Economics</i> , honors) Bangladesh Agricultural University	

#### Positions

July 2016 –	<b>Senior Lecturer in Economics</b> Department of Economics, School of Business Monash University in Australia (Malaysia Campus)
Jan. 2012 – July 2016	<b>Senior Research Fellow</b> School of Business Monash University in Australia (Malaysia Campus)
Oct. 2009 – Mar. 2011	<b>Associate Professor</b> Graduate School of Environment and Information Sciences Yokohama National University, Japan
May 2008 – Sep. 2009	<b>Global COE (Center of Excellence) Fellow</b> Yokohama National University, Japan
Mar. 2005 – Mar. 2008	<b>Postdoctoral Research Fellow</b> School of Natural and Rural Systems Management The University of Queensland, Australia

- July 2001– Feb. 2005 **Technical Consultant**  
Suimon Canada Ltd., Vancouver, Canada
- Jan. 2001 – Jun. 2001 **Research Fellow**  
Center for Japanese Research  
The University of British Columbia, Canada
- Oct. 1998 – Sep. 2000 **Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellow**  
Faculty of Agriculture  
Niigata University, Japan

## Experience

**July 2016 – Senior Lecturer in Economics**  
Monash University in Australia (Malaysia Campus)

**Jan. 2012 – July 2016 Senior Research Fellow**  
Monash University in Australia (Malaysia Campus)

### *Research*

- Published articles in Excellence in Research for Australia (ERA)/Journal Citation Reports (JCR)-ranked 5A\* journals
- Prepared several other papers for ERA/JCR-ranked A/A\* journals
- Gave eight oral presentations at international conferences
- Developed multidisciplinary research teams comprising colleagues from my university's Schools of Business, Medicine, and Engineering
- Secured eight internal and external research grants, including the Fundamental Research Grant Scheme (FRGS) of Malaysia
- Conducted field surveys in Malaysia and Japan
  - I visited two irrigation areas, the Fisheries and Marine Research Institute, the Niigata Fisheries Cooperatives, and the Niigata Fisheries Cooperatives Federation in Niigata Prefecture, Japan.
  - I collected more than 100 river water samples, 100 household water samples, and 100 fish samples from the two rivers. I also conducted more than 80 household interviews as part of my research.
- Established research collaboration between Monash University and the Research Institute for Humanity and Nature (RIHN) in Japan.
  - Monash and RIHN signed a Memorandum of Agreement.
  - RIHN funded several field surveys of the Langat and Klang River Basin areas.
  - RIHN funded an international symposium at Monash and invitations for four academic faculty members from the School of Business to participate in symposia in the Philippines and Japan.
  - Prof. Kada from RIHN participated in the ASEAN–China Symposium on December 5–6, 2013 at Monash University Malaysia.
  - Prof. Kada and Dr. Masuda from RIHN visited the School of

Business on April 30–May 4, 2012, to further discuss collaborative research activities.

*Teaching*

- Taught introductory microeconomics, managerial economics (tutorials); Business in Asia (guest lecture), and Business, Competition & Regulation (guest lecturer).

*Other*

- Developed the following unit: Environmental and Natural Resource Economics, School of Business, Monash University Malaysia
- Reviewed articles for the *Ecological Economics*, *Public Administration*, *Organization Studies*, *Human Ecology*, *Water Policy*, and *Water Resources and Environmental Engineering* journals
- Participated in a variety of activities and workshops, including the Academic Writing and Publishing Workshop and the New Staff Orientation Program at Monash University
- Served the Chartered Tax Institute of Malaysia as an exam question setter and economics paper examiner

**Oct. 2009 – Mar. 2011 Associate Professor**

Yokohama National University

*Research*

- Gave two presentations at international conferences held in Hong Kong
- Presented a colloquium at The Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis at Indiana University, US (invited to present by Nobel Laureate Elinor Ostrom)
- Conducted field surveys in the Ooyama Senmaida Satoyama area, Japan

*Teaching*

- Taught graduate units on environmental economics (see below for further details)

*Other*

- Developed and amended syllabi for Environmental Leadership for Sustainable Living with Risk, Asia-Africa Field Research, and Effective Presentation & Writing
- Coordinated and chaired over 30 videoconference lectures delivered for approximately 42 graduate students enrolled at Yokohama National University (YNU) and partner universities in Thailand, Malaysia, Indonesia, the Philippines, Kenya, and Madagascar.
- Trained 10 YNU graduate students on how to give an effective presentation before they participated in a workshop held at Universiti Sains Malaysia.
- Organized two intensive training programs at YNU for 9 graduate students who were invited from partner universities
- Organized a workshop at YNU for 10 invited faculty members from partner universities

**May 2008 – Sep. 2009 Global COE (Center of Excellence) Fellow**

Yokohama National University, Japan

*Research*

- Presented research findings at conferences and seminars held in the UK, the Netherlands, and Japan
- Conducted two field surveys on biofuel production and its environmental and economic impact in Indonesia and two field surveys on shrimp culture and its environmental and economic impact in Bangladesh

*Teaching*

- Taught graduate units

*Other*

- Trained two groups of YNU graduate students on how to give an effective presentation before taking them to Indonesia to participate in a seminar held at The University of Lampung
- Assisted students and colleagues in writing and evaluating their reports, scientific papers, and theses for further improvement
- Represented the vice president of YNU at the Promotion of Sustainability in Postgraduate Education and Research Network meeting at Hokkaido University
- Guided a group of students in collecting data to monitor environmental change in Japan
- Chaired a seminar session at the 2008 International Association for the Study of the Commons Conference (IASC) at The University of Gloucestershire, UK

**Mar. 2005 to Mar. 2008 Postdoctoral Research Fellow**

The University of Queensland, Australia

*Research*

- Conducted field surveys on ecosystem services, payments for these services, and water management in Queensland
- Wrote and published three articles on ecosystem services and water management in peer-reviewed international journals: *Ecological Economics*, *Human Ecology*, and *Water Policy*
- Presented six oral presentations at conferences, including the International River Symposium (Australia), the International Geographical Union Regional Conference (Australia), and the European Regional Meeting of IASC (Italy), as well as seminars held at The University of Queensland (Australia) and The University of Sydney (Australia)

*Teaching*

- Taught groups of students from The University of Queensland about interview strategies and questionnaire development techniques, then took them to Japan on two occasions to collect data from different interview locations in Osaka, Tokyo, Nagoya, Kobe, and Kyoto (as an advisor and Japanese-English interpreter and translator)

*Other*

- Participated in training courses such as Early Career Researcher Workshop, Introduction to University Teaching and Learning, and University Staff Induction Seminar, which were offered at The University of Queensland
- Assisted a PhD student in publishing an article in *Water Policy*
- Designed and convened a year-round weekly seminar series for academics, graduate students, and guest speakers at the School of Natural and Rural Systems Management, The University of Queensland
- Reviewed articles for international journals, including *Australasian Journal of Environmental Management* and *Social Alternatives*
- Assisted the Locker Catchment Association with data analysis
- Planted trees with community members for environmental restoration

**July 2001 – Feb. 2005**

**Technical Consultant (occasional)**

British Columbia, Canada

- Served as a technical consultant at Suimon Canada Ltd., Vancouver.
- Participated in various workshops, seminars, and conferences at The University of British Columbia and gave an invited seminar at Simon Fraser University
- Published articles in *Journal of Rural Cooperation* and *Society and Natural Resources* and a book review in *Society and Natural Resources*
- Drafted a book chapter and later published it through The University of Queensland, Australia

**Jan. 2001 – June 2001**

**Research Fellow**

The University of British Columbia, Canada

*Research*

- Prepared and submitted articles on institutional analysis and collective action to *Society and Natural Resources* and *Journal of Rural Cooperation*
- Gave an oral presentation on institutional analysis, governance, and game theory in the Institute of Asian Research's seminar series

**Oct. 1998 – Sep. 2000**

**JSPS Postdoctoral Fellow**

Niigata University, Japan

*Research*

- Carried out field surveys in Niigata Prefecture on issues related to institutional arrangements governing irrigation management systems as a common-pool resource in Japan
- Published an article in *Journal of Agricultural Water Management*
- Gave oral presentations at international conferences held in Australia, the Philippines, and the US
- Presented a colloquium at The Vincent and Elinor Ostrom Workshop

in Political Theory and Policy Analysis at Indiana University on the invitation of Nobel Laureate Elinor Ostrom

#### *Other*

- Promoted research cooperation between Niigata University, Indiana University, and Hiroshima City University
- Familiarized international students and scholars with Japan's culture and customs
- Assisted international students in interacting effectively with faculty members and Japanese students
- Volunteered for organizations devoted to environmental issues

## Publications

**Research philosophy:** The divides between disciplines are artificial, and moving beyond them can help us seek more focused answers to research questions.

### Published

#### **Journal articles (refereed)**

1. Sarker, A. and W. Blomquist. 2018. "Addressing Misperceptions of *Governing the Commons*." *Journal of Institutional Economics*, March: 1-21. (ABDC: **B** ranked)
2. Yong, M.C., J. Kasipillai, and **A. Sarker**. 2017. "GST Compliance and Challenges for SMEs in Malaysia." *eJournal of Tax Research* 15 (3). (ABDC: **A** ranked)
3. Poon, W.C., G. Herath, **A. Sarker**, T. Masuda, and R. Kada. 2016. "River and Fish Pollution in Malaysia: A Green Ergonomics Perspective." *Applied Ergonomics* 57: 80-93 (ERA: **A\***).
4. **Sarker, A.**, T. Ikeda, T. Abe, and K. Inoue. 2015. "Design Principles for Managing Coastal Fisheries Commons in Present-day Japan." *Ecological Economics* 117: 32-38 (JCR: Q1 = **A\***).
5. **Sarker, A.** 2014. "Federated Rural Organization for Governing the Commons in Japan." *Journal of Rural Studies* 36: 42-51. (ERA: **A\***)
6. **Sarker, A.**, T. Itoh, R. Kada, T. Abe, M. Nakashima, and G. Herath. 2014. "User Self-Governance in a Complex Policy Design for Managing Water Commons." *Journal of Hydrology* 510: 246-258. (ERA: **A\***)
7. **Sarker, A.** 2013. "The Role of State Reinforced Self-Governance in Averting the Tragedy of the Irrigation Commons in Japan." *Public Administration* 91: 727-743. (ERA: **A\***)
8. **Sarker, A.**, C. Baldwin, and H. Ross. 2009. "Managing Groundwater as a Common-Pool Resource: An Australian Case Study." *Water Policy* 11: 598-614. (ERA indexed)
9. **Sarker, A.**, H. Ross, and K. K. Shrestha. 2008. "Interdependence of Common Pool Resources: Lessons from a Set of Nested Catchments in Australia." *Human Ecology* 36: 821-834. (ERA: **A**)
10. **Sarker, A.**, H. Ross, and K. K. Shrestha. 2008. "A Common-Pool Resource Approach for Water Quality Management: An Australian Case Study." *Ecological Economics* 68: 461-471. (ERA: **A**)
11. **Sarker, A.**, and T. Itoh. 2003. "The Nature of the Governance of Japanese Irrigation Common-Pool Resources." *Society and Natural Resources* 16: 159-172. (ERA: **A**)
12. **Sarker, A.**, and T. Itoh. 2001. "The Development of Group Farming in Post-War Japanese Agriculture." *Journal of Rural Cooperation* 29: 63-82.

13. **Sarker, A.**, and T. Itoh. 2001. "Design Principles in Long-Enduring Institutions of Japanese Irrigation Common Pool Resources." *Agricultural Water Management* 48: 89-102. (ERA: [A](#))
14. **Sarker, A.**, T. Itoh, and I. A. Mia. 1997. "Development Conditions of Group Farming in Bangladesh." *Tohoku Journal of Rural Economics* 16: 17-42.
15. **Sarker, A.**, and T. Itoh. 1995. "Successful Management of Common-Pool Resources: A Case Study of Indian Group Farming." *Tohoku Journal of Rural Economics*. 14: 18-37.

#### **Journal article (non-refereed)**

1. Yong, M. C., J. Kasipillai, and **A. Sarker**. 2018. "The Impact of GST on Small and Medium-Sized Enterprise Owners in the Malaysian Retail Sector." *Austaxpolicy*. March 13.
2. **Sarker, A.** 2014. "New Design for CTIM Economics Paper." *Tax Guardian*. Official Journal of the Chartered Tax Institute of Malaysia [CTIM]. 7: 58-59.
3. **Sarker, A.** and T. Itoh. 1998. "Group Farming in Korea: With Special Reference to Trust Farming Company." *Bulletin of the Faculty of Agriculture, Niigata University*. 51: 1-13.

#### **Published**

##### **Book chapters**

1. **Sarker, A.**, W.C. Poon, and G. Herath. 2018. "Natural Resource Use, Institutions, and Green Ergonomics." In *Ergonomics and Human Factors for a Sustainable Future*, Pp. 271-297, Palgrave Macmillan.
2. **Sarker, A.** 2008. "Land Improvement Districts as Irrigation Common-Pool Resources in Japan." In *Rural Common Property in the Perspective of Development and Modernization*. Rome: The Collective Action on Property Rights Initiative and International Land Coalition.
3. Shrestha, K.K. and **A. Sarker**. 2008. "Collaborative Planning and Management of Natural Resources: Exploring Ecosystems as Common-Pool Resources in Australia." In *Dialogues in Urban Planning*. New South Wales: The University of Sydney Press.
4. **Sarker, A.**, T. Itoh and M. Nakashima. 2002. "Rural Environment, Self-Governance of Local Common-Pool Resources, and Development Planning in Japan." In *Planning of Rural Development in Asia and the Pacific*. Asian Productivity Organization, Tokyo.

##### **Book reviews**

1. **Sarker, A.** 2008. Review of *Economics and the Environment: A Signaling and Incentives Approach*, by Ian Wills. *Australasian Journal of Environmental Management* 15: 63-64.
2. **Sarker, A.** 2004. Review of *The Commons in the New Millennium: Challenges and Adaptations*, by Nives Dolšak and Elinor Ostrom (eds.). *Society and Natural Resources* 17: 369-371.

#### **Conferences and Seminars**

##### **Presentations**

##### **Conferences**

1. **Sarker, A.**, W. C. Poon, S. Haque, and G. Herath. 2017. "Experimental Common-Pool Resource Management and Neuroeconomics." Paper presented at the 51st Annual Conference of the [Canadian Economics Association](#), St Francis Xavier University, Nova Scotia, Friday June 2nd to Sunday June 4th, 2017.
2. **Sarker, A.**, W. C. Poon, S. Haque, and G. Herath. 2016. "Addressing the Provision Problems of Common-Pool Resources from Neuroeconomics Perspective." Paper presented at the 50th

- Annual Conference of the **Canadian Economics Association**, The University of Ottawa, Ottawa, Canada, June 2016 (Dr. Poon presented).
3. **Sarker, A.**, W.C. Poon, G. Herath, and S. Haque. 2015. "Common-Pool Resources Management in Experimental Economics and Neuroscience Perspectives." Paper presented at the 15th **Biannual Conference International Association for the Study of the Commons, The University of Alberta**, Edmonton, Canada, May 2015.
  4. **Sarker, A.** 2015. "Managing Private Terraced Paddy Fields as Transcommons in Japan." Paper presented at the 15th **Biannual Conference International Association for the Study of the Commons, The University of Alberta**, Edmonton, Canada, May 2015.
  5. **Sarker, A.** 2015. "The Role of State-Reinforced Self-Governance for Managing Postwar Coastal Fisheries Commons in Japan." Paper presented at the 15th **Biannual Conference International Association for the Study of the Commons, The University of Alberta**, Edmonton, Canada, May 2015.
  6. **Sarker, A.** 2013. "State-Reinforced Self-Governance in Staving off the Tragedy of the Irrigation Commons in Japan." Paper presented at IASC 2013: The 14th Global Biennial Conference of the International Association for the Study of the Commons, Kitafuji, Japan, June 2013.
  7. **Sarker, A.** 2013. "Managing the Underuse of the Satoyama as a New Commons for the Harmonious Coexistence of Humans and Nature in Japan." Paper presented at IASC 2013: The 14th Global Biennial Conference of the International Association for the Study of the Commons, Kitafuji, Japan, June 2013.
  8. **Sarker, A.**, W.C. Poon, T. Masuda, G. Herath, and R. Kada. 2013. "Water Pollution and Food-Health Security in River Basin in Malaysia." Paper presented at the International Conference on Climate Change and Natural Disasters in Asia at Monash University Malaysia, Sunway, Malaysia, March 2013.
  9. **Sarker, A.** 2012. "Managing the Institutional Diversity of Japan's Irrigation Commons." Paper presented at the ISEE 2012 Conference – Ecological Economics and Rio+20: Challenges and Contributions for a Green Economy, Rio de Janeiro, Brazil, June 2012.
  10. **Sarker, A.** 2012. "Managing Underuse, Biodiversity, and Resilience of Satoyama Social-Ecological System in Japan." Poster presented at the ISEE 2012 Conference – Ecological Economics and Rio+20: Challenges and Contributions for a Green Economy, Rio de Janeiro, Brazil, June 2012.
  11. **Sarker, A.**, T. Itoh, and R. Kada. 2010. "Governing Agricultural Water Use and Ecosystem Services Sustainably in Japan." Paper presented at the 16th Annual International Sustainable Development Research Conference, The University of Hong Kong, Hong Kong, May–June 2010.
  12. Kada, R., K. Fujiwara, and **Sarker, A.** 2010. "Developing Leadership for Sustainable Environmental Risk Management in Asia and Africa." Paper presented at the 16th Annual International Sustainable Development Research Conference, The University of Hong Kong, Hong Kong, May–June 2010.
  13. **Sarker, A.**, T. Itoh, and R. Kada. 2009. "Polycentric Governance for Local Action and Sustainable Irrigation Management in Japan." Paper presented at the 15th International Sustainable Development Research Conference, Utrecht University, Utrecht, Netherlands, July 2009.



14. **Sarker, A.**, R. Kada, and K. Fujie. 2009. "Bio-Energy, Ecological Risks, and Sustainable Development in Asia." Poster presented at the 15th International Sustainable Development Research Conference, Utrecht University, Utrecht, Netherlands, July 2009.
15. Kada, R., and **A. Sarker**. 2009. "Payment for Ecosystem Services and Sustainable Agricultural Development." Paper presented at the 15th International Sustainable Development Research Conference, Utrecht University, Utrecht, Netherlands, July 2009.
16. **Sarker, A.**, and R. Kada. 2008. "Bio-Energy and Ecological Risks in Asian Agriculture." Poster presented at the Seminar on Global Eco-Risk Management from Asian Viewpoints, United Nations University, Tokyo, Japan, December 12, 2008.
17. **Sarker, A.**, T. Itoh, and R. Kada. 2008. "Evolution of Common-Pool Resource Theory and Irrigation Management in Japan." Paper presented at the 12th Biennial Conference of the International Association for the Study of Commons, The University of Gloucestershire, Gloucestershire, UK, July 2008.
18. **Sarker, A.**, T. Itoh, and R. Kada. 2008. "Scale Issue and Irrigation Common-Pool Resources in Japan." Paper presented at the 12th Biennial Conference of the International Association for the Study of Commons, The University of Gloucestershire, Gloucestershire, UK, July 2008.
19. **Sarker, A.**, and H. Ross. 2006. "Managing Water Quality through Common property, Market and Non-Market Based Instruments in South-East Queensland, Australia." Paper presented at the 9th International River Symposium, Brisbane, Australia, September 2006.
20. **Sarker, A.**, and T. Itoh. 2006. "Managing River Water for Irrigation in Japan." Paper presented at the 9th International River Symposium, Brisbane, Australia, September 2006.
21. **Sarker, A.**, K.K. Shrestha, and H. Ross. 2006. "Commons in Catchments: Opportunities and Challenges for Collaborative Natural Resource Management." Paper presented at the International Geographical Union Regional Conference, Queensland University of Technology, Brisbane, Australia, July 2006.
22. **Sarker, A.**, and H. Ross. 2006. "Managing the Ecosystem Services Linked to Water Resources Commons in Australia." Paper presented at the Regional Meeting of IASC, The University of Brescia, Italy, March 2006.
23. **Sarker, A.**, and H. Ross. 2005. "Common Property Approaches to Managing Environmental Issues in the Lockyer Catchment, South East Queensland, Australia." Poster presented at the 8th International River Symposium, Brisbane, Australia, September 2005.
24. **Sarker, A.**, and T. Itoh. 2000. "Irrigators' Management of Common-Pool Resources with an External Entity in Japan." Paper presented at the International Symposium on Society and Resource Management, Western Washington University, Bellingham, WA, US, June 2000.
25. **Sarker, A.**, T. Itoh, and M. Nakashima. 1999. "Self-Governance of Local Common-Pool Resources and Rural Development in Japan." Paper presented at the Seminar on Planning of Rural Development, Manila & Davao, Philippines, December 1999.
26. **Sarker, A.**, and T. Itoh. 1999. "Appropriating Resource Unit from Common-Pool Resources in Japan." Paper presented at the International Symposium on Society and Resource Management at The University of Queensland, Brisbane, Australia, July 1999.
27. Sarker, A., and Tadao Itoh 1996. "Korean group farming under labor scarcity." Paper presented at the 46<sup>th</sup> Conference of the Regional Agricultural and Forestry Economics Society, Kyoto

University, Kyoto, Japan, October 1996.

28. Sarker, A., and Tadao Itoh 1995. "Factors of success of an Indian group Farming." Paper presented at the 45<sup>th</sup> Conference of the Regional Agricultural and Forestry Economics Society, Shinshu University, Inashi, Japan September–October 1995.

### **Seminars**

1. **Sarker, A.** 2016. "Streamlining Academic Writing for Top-Ranked Journals." Lecture given at the School of Business, Monash University Malaysia, March 23, 2016.
2. **Sarker, A.** 2014. "State-reinforced Self-Governance for Resolving the Tragedy of the Irrigation Commons [Common-Pool Resource] in Japan." Lecture given at the Department of Economics, Chuo University, February 8, Japan.
3. **Sarker, A.** 2012. "Local Lessons and Transboundary Challenges for Governing Shared Water Resources in Asia." Lecture given at the Sixth Executive Forum on Natural Resource Management, Los Banos, Philippines, April 11, 2012. (Invited as a resource speaker).
4. **Sarker, A.** 2010. "Managing Irrigation Commons in the Japanese Perspective." Lecture given at the Global COE Forum, Yokohama National University, Yokohama, Japan, November 10, 2010.
5. **Sarker, A.**, and R. Kada. 2010. "Coping with the Tragedy of 'Underused' Commons: A Proposal." Colloquium presented at the Workshop in Political Theory and Policy Analysis at Indiana University, Bloomington, Indiana, September 15, 2010. ([Invited to present by Nobel Laureate Elinor Ostrom](#)).
6. Kada, R., and **A. Sarker**. 2010. "Payment for Ecosystem Services and Sustainable Agricultural Development." Lecture given at the School of Public and Environmental Affairs at Indiana University, Bloomington, Indiana, US, September 16, 2010.
7. **Sarker, A.** 2008. "Japanese Irrigation Management as a Common-Pool Resource (ii) Developing Market-Based Instruments for Ecosystem Services." Lecture given at the Faculty of Economics and Business Administration at Fukushima University, Fukushima, Japan, December 11, 2008.
8. **Sarker, A.**, and R. Kada. 2008. "Managing Bio-Energy Production and Food Security from Asian Viewpoints." Lecture given at the National Seminar and Dialogue on Agricultural Land Resources, Bogor, Indonesia, November 18, 2008.
9. **Sarker, A.** 2008. "Payment for Ecosystem Services for Social-Ecological Resilience: The Case of the Australian Catchment." Lecture given at the Division of Economics and Business Administration at Yokohama City University, Yokohama, Japan, October 31, 2008.
10. **Sarker, A.** 2008. "Payment for Ecosystem Services in Australia." Lecture given at the Seminar on Linking Ecosystem Services to Human Well-Being, United Nations University-Institute of Advanced Studies, Yokohama, Japan, October 27, 2008.
11. **Sarker, A.** 2008. "Market and Payment for Ecosystem Services in Australia." Seminar presented at the Graduate School of Environment and Information Sciences at Yokohama National University, Yokohama, Japan, July 1, 2008.
12. **Sarker, A.**, and K.K. Shrestha. 2007. "The Planning and Management of an Ecosystem as a Commons." Seminar presented at the Faculty of Architecture, Design and Planning at University of Sydney, Sydney, Australia, December 21, 2007.

13. **Sarker, A.**, and H. Ross. 2006. "Coping with Water Quality Problems through Common Property, Market and Non-Market Based Instruments, Australia." Lecture given at the NRSM Seminar Series at University of Queensland, Brisbane, Australia, April 26, 2006.
14. **Sarker, A.** 2003. "Japanese Irrigation Common-Pool Resources: Institutions and Governance." Seminar presented at the School of Resource and Environmental Management at Simon Fraser University, Burnaby, Canada, October 2003.
15. **Sarker, A.**, and T. Itoh. 2001. "Governing the Japanese Irrigation Commons." Lecture given at the Centre for Japanese Research, The University of British Columbia, Vancouver, Canada, April 2001.
16. **Sarker, A.**, and T. Itoh. 2000. "Irrigators' Management of Common-Pool Resources with External Entity in Japan." Colloquium presented at Indiana University, Bloomington, Indiana, June 2000. ([Invited to present by Nobel Laureate Elinor Ostrom](#)).
17. **Sarker, A.**, and T. Itoh. 1999. "Social Capital and Irrigation Resource Management in Japan." Seminar presented at the Department of Natural Resources, Toowoomba, Australia, July 1999.
18. **Sarker, A.**, and T. Itoh. 1999. "The Nature of Collective Action and Water Resources Management in Japan." Seminar presented at Niigata University, Niigata, Japan, June 1999.
19. **Sarker, A.**, and T. Itoh. 1999. "Self-Governance of CPRs in Japan." Colloquium presented at Indiana University, Bloomington, Indiana, June 1999. ([Invited to present by Nobel Laureate Elinor Ostrom](#))

## Teaching

**Philosophy:** The ultimate goal of my teaching approach is to motivate students to become active learners who think critically and solve problems, both independently and as part of a team.

### **Expertise:**

- Microeconomics
- Macroeconomics
- Managerial economics
- Environmental economics

### **Experience:**

1. Department of Economics, School of Business, Monash University in Australia (Malaysia Campus)
  - ECM 2360 Environmental and Natural Resource Economics S1 2018 (Teaching; class size: above 40)
  - ECW 1101 Introductory Microeconomics S1 2018 (Teaching; class size: above 40)
  - ECW 1101 Introductory Microeconomics S2 2017 (SETU Score: 3.99 out of 5.00; class size: above 330)
  - ECW 1101 Introductory Microeconomics S1 2017 (SETU Score: 4.02 out of 5.00; class size: above 35)
  - ECM 2360 Environmental and Natural Resource Economics S1 2017 (SETU Score 4.1 out of 5.00; class size: above 60)
  - ECW 1101 Introductory Microeconomics Oct 2016/2017 (SETU Score: 4.1 out of 5.00)
  - ECW3830 Business, Competition and Regulation (undergraduate program, 2012 to 2015;

taught several classes as a guest lecturer)

- ESX2550/3550 Business in Asia (undergraduate program, 2012 to 2015; taught several classes as a guest lecturer)
- ECW2731 Managerial Economics (undergraduate program, 2013; taught one semester); SETU score (tutorial): 4.1 – 4.3 out of 5.0

2. Graduate School of Environment and Information Sciences, Yokohama National University, Japan

- Environmental Risk Management: Theory and Policy for Asia (graduate program, 2010); peer-review score: 4.80 out of 5.0
- Planning and Implementation of International Workshop (graduate program, 2010); peer-review score: 4.75 out of 5.0
- Environmental Risk Management: Theory and Policy for Asia (graduate program, 2009); peer-review score: 4.75 out of 5.0
- International Agricultural Economics: Theory and Policy for Asia (graduate program, 2008); peer-review score: 4.70 out of 5.0

3. The School of Natural and Rural Systems and Management, the University of Queensland, Australia

- Food and Fiber Case Studies (undergraduate program, 2007).
- Food and Fiber Case Studies (undergraduate program, 2005).

### **Course Development and Planning**

#### ***Developed syllabi for the following units:***

- Environmental and Natural Resource Economics, Monash University Malaysia (2016)
- Principles of Economics, Chartered Tax Institute of Malaysia (2014)
- International Agricultural Economics: Theory and Policy for Asia, Yokohama National University (2008)
- Environmental Risk Management: Theory and Policy for Asia, Yokohama National University (2009 and 2010)
- Planning and Implementation of International Workshops, Yokohama National University (2010)
- Asia-Africa Field Research I, Yokohama National University (2011)

#### ***Developed partnership associations with the following universities in Asia and Africa:***

- Kasetsart University (Thailand)
- The Universiti Sains Malaysia (Malaysia)
- The University of Lampung (Indonesia)
- The University of the Philippines Los Baños (The Philippines)
- The University of Nairobi (Kenya)
- The University of Antananarivo (Madagascar)

### **Research Projects and Grants**

#### ***Monash University Malaysia***

**Project 11** (2017-2018): “Reinvestigating the Impacts of Communication on Cooperation in a Public Goods Experiment”

Funding Source: Global Asia in the 21st Century (GA21); **internal: 10,000 MYR**

Team: **A. Sarker (Principal Investigator)**.

**Project 10** (2017-2018): “Institutions for Sustainable Marine Fisheries Governance in Malaysia”

Funding Source: Global Asia in the 21st Century (GA21); **internal: 9,000 MYR**

Team: Siah, K. L., S. G. M. Koh, and **A. Sarker**.

**Project 9** (2017-2018): “Economic and Neural Foundations for Sustainable Resources Management”

Funding Source: Global Asia in the 21st Century (GA21); **internal: 19,998 MYR**

Team: **A. Sarker (Principal Investigator)**, W.C. Poon, G. Herath, and S. Haque.

**Project 8** (2015): “Climate Change Adaptation by the Poor in Malaysia: An Empirical investigation”

Funding Source: Social & Economic Transformation in Asia (SETA); **Internal: 7,450 MYR**

Team: G. Herath, **A. Sarker**, and W.C. Poon.

**Project 7** (2014): “Integrating Visual, Auditory, and Kinesthetic Learning Styles at School of Business”

Funding Source: Social & Economic Transformation in Asia (SETA); **Internal: 10,000 MYR**.

Team: **A. Sarker (Principal Investigator)**, W.C. Poon, and G. Herath

**Project 6** (2013): “Neuroeconomic Underpinnings of Noncooperation and Cooperation in Sustainable Use of Shared Natural Resources”

Funding Source: Fundamental Research Grant Scheme (FRGS), Malaysia; **External: 54,500 MYR**

Team: **A. Sarker (Principal Investigator)**, G. Herath, W.C. Poon, and S. Haque (School of Medicine)

**Project 5** (2013): “Neuroeconomic Foundation of Social Communication, Cooperation, and Noncooperation for the Management of the Commons”

Funding Source: Social & Economic Transformation in Asia (SETA); **Internal: 35,100 MYR**

Team: **A. Sarker (Principal Investigator)**, G. Herath, W.C. Poon, and S. Haque (School of Medicine)

**Project 4** (2013): “Managing the Underuse of Satoyama as the New Commons for the Harmonious Coexistence of Humans and Nature in Japan”

Funding Source: Sumitomo Foundation, Japan; **External: approximately 25,000 MYR**

Team: **A. Sarker (Principal Investigator)** and G. Herath

**Project 3** (2013): “Assessing Socio-Economic and Environmental Risks for Food and Health Security in the Langat and the Klang River Basins in Malaysia”

Funding Source: Research Institute for Humanity and Nature (RIHN), Japan; **External: 40,000 MYR**

Team: Gamini Herath, **A. Sarker**, W.C. Poon, T. Masuda, and R. Kada (RIHN).

**Project 2** (2012): “Assessing Socio-Economic and Environmental Risks for Food and Health Security in the Langat River, Malaysia”

Funding Source: Research Institute for Humanity and Nature (RIHN), Japan; **External: 36,000 MYR**

Team: G. Herath, **A. Sarker**, W.C. Poon, T. Masuda, and R. Kada

**Project 1** (2012): “Assessing Socio-Economic and Environmental Risks for Food and Health Security in Muda Irrigation Area in Malaysia”

Funding Source: Seed Grant, Monash University Malaysia; **Internal: 30,000 MYR**

Team: G. Herath, **A. Sarker**, W.C. Poon, and R. Kada (RIHN)

### **Overseas universities**

- 2008 – 2009 COE Fellowship Research Support Grant  
Yokohama National University (Approximately US\$9,800)
- 2005 – 2008 UQ Postdoctoral Research Support Grant  
The University of Queensland, Australia (Approximately US\$20,000)
- 1998 – 2000 JSPS Postdoctoral Research Support Grant  
Niigata University, Japan (Approximately US\$13,000)

### **Career Development Programs and Training**

- Feb. 2018 “Quantitative Banking and Finance with Panel Data Modelling”  
Lorong University A. (Kuala Lumpur, Malaysia)
- Nov. 2017 “Introduction to Bio-Linux & High-Throughput Genomics”  
Monash University in Australia (Malaysia Campus)
- Apr. 2017 “Workshop in Mental Health Awareness”  
Monash University in Australia (Malaysia Campus)
- Feb. 2017 “Data Analytics and Data Science Concepts with R”  
Monash University in Australia (Malaysia Campus)
- Feb. 2016 Workshop in MATLAB  
Panoply Consultancy, Kuala Lumpur
- Feb. 2016 Statistical Analysis using SPSS  
Panoply Consultancy, Kuala Lumpur
- Aug. 2015 “Panel Data Econometrics Using Eviews 9.0”  
The University of Malaya, Kuala Lumpur
- Aug. 2015 “Time Series Econometrics Using Eviews 9.0”  
The University of Malaya, Kuala Lumpur
- Aug. 2015 “Quantitative Electroencephalogram (EEG) Analysis: Methods and Clinical Applications”  
The University of Technology in Malaysia, Kuala Lumpur
- Aug. 2015 “ASEPA-ANZAN Electroencephalogram (EEG) Workshop”  
Sarawak General Hospital, Sarawak, Malaysia
- Aug. 2015 “Workshop on Econometric Modelling by using STATA”  
The University Putra Malaysia, Kuala Lumpur
- Feb. 2015 “Workshop on Efficiency, Productivity, and Panel Data Analysis”  
The University of Malaya, Kuala Lumpur
- Jan. 2015 “Literature Review from Effective Searching Approaches to the Ways of Writing Literature”  
The University of Malaya, Kuala Lumpur

- Dec. 2014 "Data Analysis Using SPSS and AMOS"  
The University of Malaya, Kuala Lumpur
- Dec. 2014 "Uncover the Language of Technical Computing: Complete Guide to MATLAB"  
The University of Malaya, Kuala Lumpur
- Sep. 2014 "Training Course on SPSS"  
The University of Malaya, Kuala Lumpur
- June–July 2014 "Level 2 Supervisor Accreditation Workshop"  
Monash University Malaysia, Sunway
- Dec. 2013 "Level 1 of the Research Supervisor Accreditation Program"  
Monash University Malaysia, Sunway
- July 2008 "Qualitative Research Design, Workshop"  
International Association for the Study of Commons, Gloucestershire, U.K.
- Nov. 2007 "[RPG027] Supervising Students with Mental Health Issues"  
Teaching and Educational Development Institute (TEDI)  
The University of Queensland, Brisbane, Australia
- May 2006 "Early Career Researcher Workshop"  
Teaching and Educational Development Institute (TEDI)  
The University of Queensland, Brisbane, Australia
- Mar. 2006 "Comparing the Knowledge Commons with Resource Commons"  
The University of Brescia, Brescia, Italy
- Sep. 2005 "Essential Knowledge for Research Management"  
TEDI, The University of Queensland, Brisbane, Australia
- Apr. 2005 "Research Commercialization Workshop"  
UniQuest Pty Limited, Kooralbyn, Australia
- July–Nov. 2005 "Introduction to University Teaching and Learning"  
TEDI, The University of Queensland, Brisbane, Australia
- May 2005 "University Staff Induction Seminar"  
TEDI, The University of Queensland, Brisbane, Australia
- Feb. 2005 "Induction for Academics New to University of Queensland"  
TEDI, The University of Queensland, Brisbane, Australia
- May–Nov. 2004 "Computer Training in Microsoft Office 2000"  
Cornerstone Academy, Vancouver, Canada

### **Fellowships and Scholarships**

- 2008 – 2009 Global COE Fellowship, Yokohama National University, Japan
- 2005 – 2008 Postdoctoral Fellowship, University of Queensland, Queensland, Australia
- 1998 – 2000 Postdoctoral Fellowship, Japan Society for the Promotion of Science
- 1993 – 1998 Scholarship, Japanese Ministry of Education (Master's and PhD programs)

### **Awards**

- Award for Research Excellence at the School of Business, Monash University Malaysia (2015)
- PVC Award for Research Excellence, Monash University Malaysia (2012)

### **Member**

- American Economic Association

- Canadian Economics Association
- Economic History Association
- American Political Science Association
- International Association for the Study of Commons

### **Journal Reviewer**

*Public Administration; Organization Studies; Ecological Economics; Human Ecology; Social Alternatives; Local Environment; Geoforum; Australasian Journal of Environmental Management; Water Policy; Water Resources and Environmental Engineering; Natural Resources Forum; Environmental Science and Policy*

### **Personal Information**

- Canadian citizen
- Spouse: Japanese national