Eranga K. Galappaththi, *PhD*

Assistant Professor
Department of Geography
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PROFILE

Correspondence language: English
Countries of citizenship: Canada, Sri Lanka

Research specialization keywords: Climate change adaptation, Indigenous fisheries, food systems
Research disciplines: Human geography
Areas of research: Community-based adaptation, small-scale fisheries, aquaculture, food security
Fields of application: Indigenous communities, Arctic and tropical fisheries systems, global assessments

CURRENT RESEARCH COLLABORATIONS

06/2021-Present	Arctic and Aquatic Research Division Department of Fisheries and Oceans Canada
02/2021-Present	Local Indicators of Climate Change Impacts (LICCI) The Universitat Autònoma de Barcelona, Spain
11/2020-Present	The COVID Observatories project University of Leeds, UK
07/2020-Present	Marine Arctic Resilience, Adaptations & Transformations (MARAT) Laval Université, Canada

EDUCATION

01/2016-08/2020	PhD in Geography Department of Geography, McGill University, Canada Co-supervisors: Dr. James Ford and Dr. Elena Bennett Research visit: Center on Food Security and the Environment, Stanford University, USA Host: Dr. Roz Naylor
09/2011-09/2013	MSc: Master's Degree in Natural Resource Management (MNRM) Natural Resources Institute (NRI), University of Manitoba, Canada Advisor: Dr. Fikret Berkes
01/2007-03/2010	MBA: Master's Degree in Business Administration University of Peradeniya, Sri Lanka Advisor: Dr. Sarath Kodithuwakku
01/2001-09/2005	BSc: Bachelor of Science Degree in Fisheries and Marine Science Ocean University of Sri Lanka Advisor: Chula Rodrigo

PUBLICATIONS

Journal articles (peer-reviewed): Google scholar

1. Araos, M., Jagannathan, K. …Galappaththi, E.K., et al. (In Press) Equity in human adaptation-related responses: A systematic global review. *One Earth*.

2. Berrang-Ford, L., Siders, A.R., Lesnikowski, A. …Galappaththi, E.K., et al. (In Press) A systematic global stocktake of evidence on human adaptation to climate change, *Nature Climate Change*.
3. Sitati, A., … Galappaththi, E.K., et al. (In Press). Climate change adaptation in conflict-affected countries: A systematic assessment of evidence. *Discover Sustainability*.
4. Galappaththi, E.K., Susarla, V.B., Loutet, S.J.T., Ichien, S.T., Hayman, A.A., Ford, J.D. (In Press). Climate change adaptation in fisheries. *Fish and Fisheries.*
5. Thomas, A., Thekritoff, E. … Galappaththi, E.K., et al. 2021. Global evidence of limits and constraints to human adaptation. *Regional Environmental Change,* 21:85.
6. Scheelbeek, P.F.D., … Galappaththi, E.K., et al. 2021. The effects on public health of climate change adaptation responses: a systematic review of evidence from low- and middle-income countries. *Environmental Research Letters* 16: 073001.
7. Turek-Hankins, L.L., … Galappaththi, E.K., et al. 2021. Climate change adaptation to extreme heat: A global systematic review of implemented action. *Oxford Open Climate Change*, 1 (1): 1-13.
8. Galappaththi, E.K., Ford, J., Bennett, E., Berkes, F. 2021. Adapting to climate change in small-scale fisheries: Insights from Indigenous communities in the global north and south. *Environmental Science and Policy,* 116: 160-170.
9. Galappaththi, E.K., Ford, D.J., Bennett, E.M. 2020. Climate change and adaptation to social-ecological change: The case of Indigenous people and culture-based fisheries in Sri Lanka. *Climatic Change,*162 (2): 279-300.
10. Galappaththi, E.K., Ichien, S.T., Hayman, A.A., Aubrac, C.J., Ford, J.D. 2020. Climate change adaptation in aquaculture. *Reviews in Aquaculture,* 12 (4): 2160-2176.
11. Ford, J.D., King, N., Galappaththi, E.K., Pearce, T., McDowell, G., Harper, S. 2020. Resilience of Indigenous peoples to environmental change. *One Earth,*2(6): 532-543.
12. Galappaththi, E.K., Ford, J., Bennett, E., Berkes, F. 2019. Climate change and community fisheries in the Arctic: A case study from Pangnirtung, Canada. *Journal of Environmental Management,* 250 (109534): 1-11.
13. Galappaththi, E.K., Ford, J., Bennett, E. 2019. A framework for assessing community adaptation to climate change in a fisheries context. *Environmental Science and Policy,* 92, 17-26.
14. Galappaththi, E.K., Berkes, F., Ford, J. 2018. Climate change adaptation efforts in coastal shrimp aquaculture: A case from northwestern Sri Lanka. *In:* Johnson, J., De Young, C., Bahri, T., Soto, D., & Virapat, C., eds. FishAdapt: The Global Conference on Climate Change Adaptation for Fisheries and Aquaculture, 2018 Bangkok. FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO.
15. Galappaththi, E.K. & Nayak, P.K. 2017. Two faces of shrimp aquaculture: Commonising vs. decommonising effects of a "wicked" driver. *Maritime Studies* 16 (12):1-19.
16. Galappaththi, I.M., Galappaththi, E.K., Kodithuwakku, S.S. 2017. Can start-up motives influence social-ecological resilience in community-based entrepreneurship setting? Case of coastal shrimp farmers in Sri Lanka. *Marine Policy* 86: 156-163.
17. Galappaththi, E.K., Kodithuwakku, S.K, Galappaththi, I.M. 2016. Can environment management integrate into supply chain management? Information sharing via shrimp aquaculture cooperatives in northwestern Sri Lanka. *Marine Policy* 68: 187-194.
18. Galappaththi, E.K. & Berkes, F. 2015. Can co-management emerge spontaneously? Collaborative management in Sri Lankan shrimp aquaculture. *Marine Policy* 60: 1-8.

19. Galappaththi, E.K. & Berkes, F. 2015. Drama of the commons in small-scale shrimp aquaculture in northwestern, Sri Lanka. *International Journal of the Commons* 9 (1): 347-368.
20. Galappaththi, E.K. & Berkes, F. 2014. Institutions for managing common-pool resources: The case of community-based shrimp aquaculture in northwestern Sri Lanka. *Maritime Studies* 13: 1-16.

*Forthcoming: Papers currently in-review **(3)** and in-preparation **(4)***

Book chapter:

1. Galappaththi, E.K. & Galappaththi, I.M. 2021. Five key characteristics that drive commonisation: Empirical evidence from Sri Lankan shrimp aquaculture. In: Nayak, P.K. (ed). Making Commons Dynamic: Understanding Change Through Commonisation and Decommonisation. Routledge: New York. 83-101.

Thesis/Dissertation:

1. Opportunities for adaptation to climate change: A comparative analysis of Indigenous fisheries systems in Canadian Arctic and Eastern Sri Lanka. PhD Dissertation. McGill University, Department of Geography, Montreal, Canada.
2. Community-based shrimp aquaculture in northwestern Sri Lanka. MNRM Thesis. University of Manitoba, Natural Resources Institute, Winnipeg, Canada.
3. Shrimp aquaculture supply chains in Sri Lanka. MBA Thesis. University of Peradeniya, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka.

High-Level Reports:

1. IPCC Contributing Author: Berrang-Ford, L., …Galappaththi, E.K., et al. (In-progress). Chapter 16: Adaptation opportunities, constraints, and limits. Intergovernmental Panel on Climate Change (IPCC) 6th Assessment Report. Working Group II.
2. IPCC Contributing Author: Kerr, R.B., …Galappaththi, E.K., et al. (In-progress). Chapter 5: Food, fibre and other services from managed ecosystems. Intergovernmental Panel on Climate Change (IPCC) 6th Assessment Report. Working Group II.
3. Expert Reviewer: Birkmann, J. et al. (2020-2021) Chapter 8: Poverty, Livelihoods and Sustainable Development. Intergovernmental Panel on Climate Change (IPCC) 6th Assessment Report. Working Group II (Second Order Draft).
4. FAO Contributing Author: *The White/Wiphala Paper on Indigenous Peoples' food systems*. Food and Agriculture Organization of the United Nations (FAO), Rome.

Non-peer reviewed publications:

1. Following the fish: Climate change and community fisheries in the Arctic. Resilience in the Arctic: facing the future, *The Circle*, The WWF Arctic Program, Volume 4, 2019.
2. Sustaining lagoon-based shrimp aquaculture through collaborative management: Sri Lankan experience. *Hanthana Vision*, Research Magazine of the University of Peradeniya, Volume 5, Issue 1, June 2019:17-18.

Newspaper articles:

1. Climate change and indigenous people in the Canadian Arctic (four Sri Lankan newspapers)
   - *The Island*, June 20, 2018

- *Sunday Observer*, June 24, 2018, P.72
- *Divaina*, June 17, 2018, P.12
- *Dinamina*, June 21, 2018, P.30

AWARDS AND GRANTS			
	Name	Amount	Year(s)
1	European Research Council [FP7-771056-LICCI] The Universitat Autònoma de Barcelona (*LICCI project funding: €10,000) Via Research partnership*	~$15,000	02/2021-09/2021
2	UKRI GCRF_NF228 The COVID Observatories: Sri Lankan component (£9,000) *Via Research partnership*	~$16,000	11/2020-11/2021
3	SSHRC Doctoral Fellowship	$86,667	05/2016-08/2020
4	McGill Graduate Excellence Fellowship	$4,000	2020
5	Mitacs Globalink Research Award	$6,000	2019
6	McGill Graduate Mobility Award	$1,000	2019
7	McGill Northern Engagement Grant	$4,000	2019
8	IDRC Doctoral Research Award	$20,000	08/2017-07/2018
9	Arctic Field Research Stipend (McGill University)	$21,128	2017-2018
10	GREAT-Graduate Research Enhancement and Travel Award	$600	2017-2018
11	NSTP (Northern Scientific Training Program) Grant	$5,950	2017-2019
12	IK-Adapt Grant (McGill University)	$2,000	2017
13	McGill Graduate Excellence Award	$7,000	2016
14	Graduate Research Fellowship (CRC-Community-based Resource Management, University of Manitoba)	$30,000	09/2011-09/2013
15	UMGSA Travel Grant, University of Manitoba	$750	09/2013
16	CHRFEER Dean's Office Travel Award, University of Manitoba	$750	07/2013
17	NRI's Graduate Student Conference Travel Award	$200	06/2013
18	Faculty of Graduate Studies Travel Award, University of Manitoba	$1,500	05/2013
19	Faculty of Graduate Studies Special Award, University of Manitoba	$1,000	10/2011
20	Faculty of Graduate Studies Special Award, University of Manitoba	$5,000	09/2011

CONFERENCE PRESENTATIONS

1. Galappaththi, E.K., et al. 2021. Climate change and community fisheries in the Arctic. Ecosystem Studies of Subarctic and Arctic Seas, Sapporo, Japan (poster).
2. Galappaththi, E.K. 2021. Climate change adaptation in aquaculture. Arctic Network for Climate Adaptation and Food Security, Rovaniemi, Finland.
3. Galappaththi, E.K., Ford, J., Bennett, E. 2018. Can an Arctic turbot fishery adapt to climate change? An empirical study from the Pangnirtung coastal community in Baffin Island, Nunavut, Canada. ArcticNet Annual Scientific Meeting, Ottawa, Canada.
4. Galappaththi, E.K., Ford, J., Bennett, E. 2018. How do Coastal Vedda fishers experience and respond to climate change? Empirical evidence from the Eastern Sri Lanka. 3rd World Small-Scale Fisheries Congress, Chiang Mai, Thailand.

5. Galappaththi, E.K., & Ford, J. 2017. How do Inuit fishers experience and respond to climate change? Empirical evidence from the Pangnirtung community in Nunavut, Canada. Arctic Change, Quebec City, Canada.
6. Galappaththi, E.K., & Ford, J. 2016. Opportunities for adaptation: Case studies from the Canadian Arctic and Eastern Sri Lanka indigenous fisheries. 5th Asia-Pacific Climate Change Adaptation Forum, Adapting and Living under 2°C: Bridging Gaps in Policy and Practice, Colombo, Sri Lanka.
7. Galappaththi, E.K., Berkes, F., Ford, J. 2016. Climate change adaptation efforts in coastal shrimp aquaculture: Case from northwestern Sri Lanka. Global Conference on Climate Change Adaptation for Fisheries and Aquaculture, Bangkok, Thailand.
8. Galappaththi, E.K. & Berkes, F. 2015. Is commonisation possible in shrimp aquaculture? A case from northwestern Sri Lanka. 15th Biennial Global Conference, International Association for the Study of the Commons, Edmonton, Canada.
9. Galappaththi, E.K. & Berkes, F. 2014. Can shrimp aquaculture be made resilient? A case from northwestern Sri Lanka. 2nd Small-Scale Fisheries Congress, Merida, Mexico.
10. Galappaththi, E.K. & Berkes, F. 2014. The liminal nature of Sri Lankan lagoons: How to get sustainable aquaculture? The Canadian Association for the Study of International Development, Congress 2014 of the Humanities and Social Sciences, St. Catharines, Canada.
11. Galappaththi, E.K. & Berkes, F. 2014. Overcoming shared problems among resource users: co-management of shrimp aquaculture in northwestern Sri Lanka. Environmental Studies Association of Canada, Congress 2014 of the Humanities and Social Sciences, St. Catharines, Canada.
12. Galappaththi, E.K. & Berkes, F. 2013. Can co-management emerge spontaneously? Collaborative management in Sri Lankan shrimp aquaculture. Natural Resources Institute research and learning forum 2013: "Research and Researches: Stories from the Field," University of Manitoba, Canada.
13. Galappaththi, E.K. & Berkes, F. 2013. Institutions for managing common-pool resources: The case of community-based shrimp aquaculture in northwestern Sri Lanka. MARE People and the Sea Conference, Amsterdam, The Netherlands.
14. Galappaththi, E.K. & Berkes, F. 2013. Drama of the commons in small-scale shrimp aquaculture in Northwestern, Sri Lanka. European Society for Ecological-Economics, "Ecological-Economics and Institutional Dynamics," Lille, France.
15. Galappaththi, E.K. & Berkes, F. 2013. Information commons in small-scale community-based resource management: "Muthupanthiya" shrimp farming community, Sri Lanka. Congress 2013 of the Humanities and Social Sciences, Victoria, BC, Canada.
16. Galappaththi, E.K. & Berkes, F. 2012. Cooperatives for information sharing in community-based resource management: "Muthupanthiya" shrimp farming community, Sri Lanka. Natural Resources Institute research and learning forum 2012: "Research and Researches: Stories from the Field," University of Manitoba, Canada.
17. Galappaththi, E.K., Ford, J., Bennett, E. (2018) Can an Arctic Turbot fishery adapt to climate change? Empirical study from the Pangnirtung coastal community in Baffin Island, Nunavut, Canada. Arctic Net Annual Scientific Meeting 2018, Ottawa, Canada.
18. Galappaththi, E.K., & Ford, J. (2017) How do Inuit fishers experience and respond to climate change? Empirical evidence from the Pangnirtung community in Nunavut, Canada. Arctic Change Annual Scientific Meeting 2017, Quebec City, Canada. (**award-winning poster**)

19. Galappaththi, E.K. & Berkes, F. (2013) Institutions for managing common-pool resources: The case of community-based shrimp aquaculture in northwestern Sri Lanka. Student poster competition, Faculty of Environment, Earth, and Resources, University of Manitoba, Canada. (**award-winning poster**)

PANEL DISCUSSIONS

1. Towards a New Social Contract for Small-Scale Fisheries (SSF): Change and Resilience, SSF Open house event organized by TBTI, 2021. (Ratana Chuenpagdee, Fikret Berkes, Melissa Marschke, Prateep Nayak, Eranga Galappaththi)
2. Experiences Studying and Working Internationally, Conversations from the couch, International Arctic Change conference, 2017. (Sarah Arnold, Allen Pope, Eranga Galappaththi, Melanie Flynn, Gwenaelle Gremion)
3. Framing Commons as a process: Exploring the concepts of Commonisation and Decommonisation for theory, policy and practice, Biennial Global Conference, International Association for the Study of the Commons, 2015 (Prateep Nayak, Eranga Galappaththi, Yolanda Lopez, Fikret Berkes)

CONFERENCES ATTENDED (and not presented)

1. Resilience conference. (2017), Resilience Frontiers for Global Sustainability, 20-23 August, Stockholm Waterfront Congress Centre, Stockholm, Sweden. http://resilience2017.org/
2. ArcticNet. (2016), Annual Scientific Meeting, 5-9 December, REB Convention Centre, Winnipeg, MB, Canada. http://www.arcticnetmeetings.ca/asm2016/

TEACHING RELATED (guest lectures, invited talks, courses taught & workshops)

Guest lectures:

1. University of Michigan, March 10, 2021
   Course: ENVIRON321: Climate Change and Adaptation
   Target audience: ~40 undergraduate students
   Title of lecture: Food security and adapting to climate change in Indigenous fisheries
2. University of Concordia, February 18, 2021
   Course: GEOG 478 Climate Change: Science, Impacts and Policy
   Target audience: ~23 undergraduate students
   Title of lecture: Adapting to climate change in Indigenous fisheries: Impacts and risks to natural and human systems
3. University of Waterloo, February 3, 2021
   Course: ERS 321 Coastal Social-Ecological Systems
   Target audience: ~45 undergraduate students
   Title of lecture: Arctic climate change and Northern Indigenous Fisheries
4. Stanford University, November 12, 2019
   Course: ES112 Human Society and Environmental Change
   Target audience: ~100 undergraduate students
   Title of lecture: Indigenous fishing communities' adaptation to climate change
5. Stanford University, October 31, 2019
   Course: ES112 Human Society and Environmental Change
   Target audience: ~100 undergraduate students
   Title of presentation: Mock interview to illustrate the 12 fundamental concepts of environmental governance in a real-life setting
6. Sabaragamuwa University of Sri Lanka, June 7, 2018
   Course: GEO 213 Environmental Geography
   Target audience: ~50 undergraduate students

Title of lecture: Adaptation to climate change in Canadian Arctic fishing communities

7. Sabaragamuwa University of Sri Lanka, June 27, 2018
   Course: GEO 411 Research Methods in Geography
   Target audience: ~50 undergraduate students
   Title of lecture: Qualitative methods for climate adaptation research in Indigenous fisheries context
8. Natural Resource Institute, University of Manitoba, March 21, 2014
   Course: NRI 7360 Qualitative Methods in Community-based Natural Resources & Environmental Management
   Target audience: ~15 graduate students preparing for their fieldwork
   Title of lecture: Qualitative research methods: Insights from Sri Lankan community research

Invited talks:

1. Arctic and Aquatic Research Division (AARD), Fisheries and Oceans Canada, January 20, 2021
   Target audience: AARD team
   Title of talk: Local knowledge documentation in the Arctic
2. Center for Ocean Solutions (COS), Stanford University, November 11, 2019
   Target audience: COS team
   Title of talk: Indigenous adaptations to climate change in marine social-ecological systems
3. Center on Food Security and the Environment (FSE), Stanford University, November 4, 2019
   Target audience: FSE members including faculty members, staff members, and graduate students
   Title of talk: Adapting to climate change in small-scale fisheries: Insights from indigenous communities in the global north and south
4. Aspen Global Change Institute, Aspen, Colorado, August 19, 2019
   Target audience: 30 multidisciplinary scientists who came from across the globe to work under the theme of 'Food system impacts of pests & pathogens in a changing climate'
   Title of talk: Adaptation and management options for disease problem: Insights from Sri Lankan shrimp aquaculture industry
5. Natural Resource Institute, University of Manitoba, Canada, March 21, 2013
   Target audience: mix of graduate students and faculty members (~30)
   Title of talk: Community-based shrimp aquaculture: Is it possible?
6. Enhanced English Skills for Employment, Winnipeg, September 6, 2011
   Target audience: 14 new immigrants looking for new jobs
   Title of talk: The cultural experience gained during enumeration activities of Census 2011 in 15 northern indigenous communities of Manitoba
7. National Institute of Fisheries & Nautical Engineering, Ocean University of Sri Lanka, May 2006
   Target audience: 18 graduates training for new employment in the Ministry of Fisheries
   Title of talk: Shrimp aquaculture technology and management

Courses Taught: (2006/01- 2009/09)

1. Ocean University of Sri Lanka, Colombo
   Course: B 6032 Aquaculture and Lagoon-based Resource Management
   Target audience: ~40 undergraduate students
2. Ocean University of Sri Lanka, Colombo
   Course: B 5320 Coastal Resource Conservation and Management
   Target audience: ~35 higher-diploma students

3. College of Fisheries and Nautical Engineering
   Course: D 032 Fiberglass technology for canoe repairing
   Target audience: ~20-30 diploma students/fisher groups
4. College of Fisheries and Nautical Engineering
   Course: D 178 Shrimp aquaculture and resource management
   Target audience: ~10-30 diploma students/shrimp farmers

Teaching workshops: Tomlinson Project in University-Level Science Education (T-PULSE) workshops, McGill University (2018-2021)

1. Active teaching strategies (design teaching strategies; modifications for online learning; and importance of alignment)
2. Assessment, grading, and feedback (strategies for grading with consistency and fairness; evaluate the rubric criteria; and best practices for providing feedback to students based on various levels of performance)
3. Implementing accessible and inclusive teaching (understand the impact of diversity on the teaching and learning environment; determine the role of the TA in issues of academic integrity; and address student concerns fairly and professionally)
4. Class management
5. Course design and course plan
6. Effective presentation skills

RESEARCH EXPERIENCE (field research & systematic literature reviews)

Field research:

1. PhD research: 2016-2019
   Location/people: With Inuit fishers in the Baffin Island coastal communities of the Canadian Arctic and Coastal-Vedda fishers in Eastern Sri Lanka, studying climate change adaptation in Indigenous fisheries
   Result: Over 10 months of participant observations, 140 semi-structured interviews, 23 focus group interviews, 48 key informant interviews, and 4 drawing workshops
   Co-supervisors: Dr. Elena Bennett and Dr. James Ford
2. MNRM research: 2011-2013
   Location/people: With small-scale shrimp farmers in northwestern Sri Lanka, studying community-based shrimp aquaculture management
   Result: Over three months of participant observations, 38 semi-structured interviews, 3 focus group interviews, and 17 key informant interviews
   Advisor: Dr. Fikret Berkes
3. Statistics Canada: 2010-2011
   Location/people: 15 Indigenous communities in northern Canada
   Result: Over 10 months in the field leading my teams in conducting more than 10,000 interviews to collect Canadian Census data and national household survey data
   Supervisor: Tammy Foster
4. MBA research: 2008-2010
   Location/people: Shrimp farmers and industry stakeholders in northwestern Sri Lanka, studying study cultured prawn supply chains in Sri Lanka
   Result: Over 10 months of fieldwork, 54 semi-structured interviews, 5 focus group interviews, and 39 key informant interviews

Advisor: Dr. Sarath Kodithuwakku

5. Assistant Director, Research and Development: 2008-2009
   Location/people: Seven regional centres across the island, aimed at resource rationalization to boost the productivity of the National Institute of Fisheries & Nautical Engineering
   Result: Two months of participant observations, 148 surveys, 3 workshops
   Supervisor: Dr. Ranjith Senaratne
6. Research Assistant: 2007-2008
   Location/people: Fishers and fisheries cooperatives around Negombo lagoon, Sri Lanka, studying impacts of the lunar cycle on the stake-net fishery
   Result: Forty-eight in-depth interviews and 23 key informant interviews
   PI: Rachini Weerakkodi
7. Research Assistant: 2007
   Location/people: Entrepreneurs related to the shrimp farming industry in Sri Lanka, studying the start-up motives of business operators involved with the prawn industry in the Puttlam lagoon area
   Result: Thirty-one in-depth interviews (case studies) and 11 key informants
   PI: Iroshani Tennakoon

Systematic literature reviews:

1. Marine Arctic Resilience, Adaptations and Transformations (MARAT): 2020-2021
   I co-investigate how Indigenous knowledge and Western science can combine to inform the adaptive co-management of Arctic fisheries. Here I bring the social science dimension to MARAT. The outcome paper is currently in-progress. (articles coded for analysis: n=72)
2. Climate change adaptation in fisheries: 2017-2020
   I led this project with five other fisheries experts to advance the understanding of climate adaptation in the fisheries context, aimed at aspects of sustainable development and governance. The outcome paper is currently published [online] with *Fish and Fisheries*. (n=230)
3. Global adaptation mapping initiative (GAMI): 2019-2020
   As a part of the IPCC AR 6 development process, this global review synthesizes insights to answer the question: Are we adapting? This initiative includes approximately >100 adaptation experts from around the globe. The project is led by Lea Berrang Ford (U Leeds, UK). My contributions are serving as a coding team member for Asia and Australasia geographical areas and serving as a synthesizing team member for global coastal sectoral data. Also, I am contributing as co-author to serious of peer-revied publications resulting from GAMI dataset (in-progress). (n=1682)
4. Resilience of indigenous peoples to global environmental change: 2019-2020
   I was invited to join this project, which uses my recently published framework to assess Indigenous adaptations. This effort is led by James Ford and includes four other experts. I am contributing to the conceptual development of this study as a co-author and coding member. This paper is currently published with *One Earth*. (n=227)
5. Climate change adaptation in aquaculture: 2017-2019
   I led this project with four other adaptation and aquaculture experts, seeking to understand the human dimensions of climate change adaptation in the aquaculture industry. This paper is currently published with *Reviews in Aquaculture*. (n=44)

AFFILIATIONS		
	Name	Title
1	Fisheries and Oceans Canada-Arctic and Aquatic Research Division	Research Scientist
2	The Universitat Autònoma de Barcelona	Research Partner
3	Institute of Integrative Biology and Systems, Laval University, Canada	Research Professional

4	Center on Food Security and the Environment, Stanford University	Visiting Scholar/ Researcher
5	Climate Change Adaptation Research Group, McGill University	Lab Member & Alumnus
6	Department of Geography, McGill University	Alumnus
7	Priestley International Centre for Climate, University of Leeds	Affiliated Researcher
8	Next Up, Network of Canadian Leadership	Alumnus
9	IK-Adapt, Inuit knowledge for a rapidly changing climate, McGill University	Team Member & Research Collaborator
10	CRC-Centre for Community-based Resource Management, Natural Resources Institute, University of Manitoba	Lab Member & Alumnus
11	MBA Alumni Association of the University of Peradeniya	Team Member
12	Postgraduate Institute of Agriculture, University of Peradeniya	Lab Member & Alumnus
13	National Institute of Fisheries and Nautical Engineering, Ocean University of Sri Lanka	Affiliated Researcher & Alumnus
14	Too Big To Ignore, Global Partnership for Small-scale Fisheries Research	Member
15	International Association for the Study of the Commons	Member
16	Asia Pacific Adaptation Network	Member
17	Association of Polar Early Career Scientists, Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI)	Member
18	Canadian Association for the Study of International Development	Member
19	Environmental Studies Association of Canada	Member
20	Arctic Network for Climate Adaptation and Food Security	Member-Canada

MEDIA ATTENTION (TV and radio interviews)

1. July 15, 2017 at Pangnirtung community radio, Nunavut, Canada, live interview with Madeleine Qumuatuq, morning show. The discussion focused on climate change impacts and community fisheries.
2. April 19, 2015 at Winnipeg CBC Radio (89.3 FM/990 AM's morning show), live interview with Terry Macleod. The discussion focused on Earth Day, climate justice, and thoughts and actions surrounding environmental issues. We represented the Winnipeg Next Up leadership network.
3. June 12, 2011 at community radio of the Pukatawagan Cree Nation in northern Manitoba. This live radio interview focused on promoting, and informing the community about, the Census 2011 and its importance. I represented the Statistics Canada special area division.
4. July 7, 2004 at ITN, live television interview. The discussion focused on the on-going 'hunger strike' of the student union, which was seeking justice in light of the false promises that politicians had made regarding the creation of Ocean University of Sri Lanka. We represented the Student Union of Ocean University of Sri Lanka.
5. May 10, 2001, at SLBC National Radio (91.7FM), live interview. The discussion sought to inform the public about the demand for blood donors and our social organization, the Colombo District Emergency, Social, and Welfare Unit, Sri Lanka.

MENTORING ACTIVITIES

Year	Activity	Institution (total # of mentees)
2016-present	I mentored students throughout my doctoral studies. Nine of my McGill mentees were part of the Geography department's mentorship program (Charlotte Aubrac; Laura Latendresse; Jihoon Jeon; Zachary Ripka;	McGill University (10)

	Olivia Kennedy; Tobias Moore) and the Research and Sustainability Network program (Samantha Loutet; Vasantha Susarla; Greyson He). Throughout and after this program, I mentored these students to build their skillsets and prepare them for their next steps (e.g., graduate studies). Some mentees become co-authors of my research publications (e.g., Charlotte Aubrac in the *Reviews in Aquaculture* publication). The rest of the mentees are from the Geography department and other departments, such as Anthropology and Natural Resources Sciences. For example, I mentored PhD candidate Marianne Falardeau-Côté to incorporate social science aspects (Inuit wellbeing) into her research aim of Cambridge Bay marine ecosystems in the Arctic.	
2020	Laura Tille is a BA student visiting from Helsinki for six months. I mentored her during her McGill visit and after the completion of her bachelor's thesis in the English language, which focuses on the trade-offs between biodiversity conversation and poverty eradication.	University of Helsinki (1)
2018-2020	I mentored graduate students who worked in overlapping research areas. I shared my knowledge and experience of Arctic field research methods and guided them in building their skillsets to complete their northern field data collection (e.g., Nafisa Sarwath, PhD candidate).	Concordia University (2)
2018-2020	I mentored undergraduate and graduate students during my research stay in Sri Lanka. I guided them in building qualitative field data collection techniques in environmental change research and participatory data analysis methods, which they are now using for their graduate studies. Further, I guided them in preparing for their next steps (e.g., funding applications and future research, the research publication process, community collaborations). For example, Chrishma Darshani is a BSc graduate whom I am guiding in the publication of her research in peer-reviewed journals and in finding the best graduate programs (in-progress).	University of Colombo (4)

EDITORIAL & JOURNAL REVIEW ACTIVITIES (selected peer-reviewed journals)

1. Associate Editor, Cambridge Prisms: *Coastal Futures*
2. Review activities: People and Nature; Weather, Climate and Society; World Development (3); Regional Environmental Change (5); Environmental Research Letters; Journal of Environmental Management (2); Environment, Development and Sustainability; International Journal of Urban sustainable Development; International Journal of the Commons; Marine Policy; Maritime Studies; Journal of Risk Analysis and Crisis Response; Ambio, A journal of Environment and Society; Perspectives in Ecology and Conservation; Polar Record

LEADERSHIP & VOLUNTEERING

Leadership:

1. Member of the *NextUp* Alumni Winnipeg and the *NextUp* Leadership Network (2015-present)
2. Co-founder of the Colombo District Emergency, Social, and Welfare Unit, Sri Lanka (2000)
3. Co-founder of the Sports Club of NIFNE, Ocean University, Sri Lanka (2001)
4. Co-founder of the Tsunami Relief Work Group (2004-2005)
5. President of the Undergraduate Student Union, Ocean University, Sri Lanka (2002-2004)
6. Student representative for the Governing Council and Academic Board of Ocean University, Sri Lanka (2002-2004)
7. Treasure of the MBA Association of the University of Peradeniya, Sri Lanka (2007-2008)

8. Entrepreneur: CeyTech Aqua Ltd. and shrimp aquaculture project in northwestern Sri Lanka (2004-2006)
9. Secretary of the Employment Union of the NIFNE, Sri Lanka (2007-2008)

KNOWLEDGE AND TECHNOLOGY TRANSLATION	
Year	Activity
2018/09	*My Role*: Researcher and Principle Investigator for the research
	Target Group: Coastal-Vedda who are relying on culture-based fisheries in Kunjankalkulam community, Sri Lanka
	Activity Description: As part of my Ph.D., I partnered with the Kunjankalkulam Costal-Vedda (the group of Indigenous people from Eastern Sri Lanka) to examine how communities build resilience and adapt to social-ecological change. Throughout and after the research, various knowledge translation activities were organized (in addition to data collection activities). Discussion groups (n=12) were arranged to create a dialog and thoughtful debate among the community about the importance of adaptation to change and (adaptive) capacity-building suggestions in culture-based fisheries. Participants ranged from 2-8 per group and consisted of community and local organization leaders, youth, and fisherwomen. Three stakeholder meetings were organized through the community's Regional Fisheries Organization, bringing together the community, government organizations, and local NGOs.
2018/03	*My Role*: Researcher and Principle Investigator for the research
	Target Group: Inuit fishers in the Arctic community of Pangnirtung, Canada
	Activity Description: As part of my Ph.D., I partnered with the Pangnirtung Inuit to examine how communities build resilience and adapt to climate change. Throughout and after the research, various knowledge translation activities were organized (in addition to data collection activities). Discussion groups (n=6) were arranged to create a dialog and thoughtful debate among the community about the importance of adaptation to change and (adaptive) capacity-building suggestions in Arctic char and turbot fisheries. Participants ranged from 2-6 per group and consisted of community and local organization leaders, youth, and fisherwomen. Two stakeholder meetings were organized through the community's Hunters and Trappers Association, bringing together Inuit fishers, the local fish plant, and stakeholders from both territorial and federal governments.
2017/04-2018/04	*My Role*: Co-Investigator and Researcher
	Target Group: Inuit community of the Pangnirtung, Nunavut
	Activity Description: This collaborative community work was a result of the IK-Adapt partnership grant with Natalie Baird (University of Winnipeg). The project aimed to use participatory visual methods to explore elder and youth perceptions of climate change adaptation in Pangnirtung, Nunavut. To do this, we visited the community in the spring/ summer and conducted drawing and painting workshops with elder and youth Inuit (n=2). We provided different topics and facilitated the participants' engagement in drawing or painting. This workshop allowed the participants to express their thoughts feelings, and perceptions related to climate change, community fisheries, and other needs for adaptation. We helped the participants combine all their drawings/paintings (n=18) and create wall art in the community school. This was a participatory effort with community groups, especially those including young Inuit students and elders.
2012/07-2015/09	*My Role*: Researcher and Principle Investigator for the research
	Target Group: Shrimp aquaculture industry stakeholders
	Activity Description: This expert knowledge translation was part of my master's research project (University of Manitoba) aimed at the shrimp aquaculture industry in Northwestern Sri Lanka. I produced a series of publications about the Sri Lankan shrimp farming sector;

	this informed the industry stakeholders, including shrimp farming cooperatives (community to national), government institutions (e.g., NAqDA), and private sector companies (which are actively involved in shrimp aquaculture resource governance). My research identified the zonal crop calendar system (ZCCS) and multi-level institutional structure for decision making as key aspects for purposes of confronting the challenge of shrimp disease. This is also evident by the steady growth of national shrimp aquaculture production after the application of ZCCS. As a previous shrimp farmer, and then as a researcher, I closely engaged with the shrimp industry associations (community to national) and NAqDA to inform national aquaculture management policy.

INTERNATIONAL RESEARCH COLLABORATION	
Year	Research activity
2020/07-2021	*My Role*: Research collaborator and country representative, Sri Lanka
	Activity Description: This international collaboration aims to establish a monitoring network that documents the experiences with, perceptions of, and responses to COVID-19 in the context of multiple interacting stresses, focusing on Indigenous and marginalized communities globally. The idea is to have three tiers of 'COVID observers' who capture observations of and experiences with COVID-19 and how it is being (mis)managed: community, decisionmaker, and researcher observers, linked to the existing capacity at these different levels. This project does not involve formal fieldwork or travel; rather, it will use existing people on the ground as observers, employing my previous research with Indigenous communities in Sri Lanka (i.e., Coastal-Vedda). I will lead the Sri Lankan Coastal-Vedda component of the project. This project is funded (£508,586) by the UK Research and Innovation (UKRI).
2019/10	*My Role*: Co-Investigator, Greenland
	Activity Description: This project aims to work with Inuit communities and knowledge users to examine prospects for strengthening community resilience and reducing vulnerability through the development of an in-depth understanding of climate science and climate adaptation with respect to how Greenlandic communities experience and respond to change. This project is currently in the funding application stage. Other Co-Investigators of the project are: Roz Naylor (Stanford University), David Battisti (University of Washington), and James Ford (University of Leeds).
2019/09-2019/12	*My Role*: Visiting Researcher, United States
	Activity Description: For the latter part of my Ph.D., I completed a research stay at the Center on Food Security and the Environment (FSE), Stanford University (host: Dr. Roz Naylor). This research visit aimed to obtain expert advice from the FSE regarding the final objective of the Ph.D. research, which was to conduct a comparative analysis of two radically different Indigenous fisheries systems to generate broader insights for climate change adaptation research. The Mitacs Globalink Research Award funded this research activity. This research collaboration led to further international collaborations, such as funding proposals aimed at studying Greenland Inuit's climate science and adaptation.
2017/07-2018/09	*My Role*: Researcher and Principle Investigator, Sri Lanka
	Activity Description: I collaborated with the University of Ruhuna, Sri Lanka, on fieldwork in Sri Lankan Indigenous communities. The contact for the collaboration is Dr. Ashoka Deepananda (Department of Fisheries and Aquaculture). The project aimed to examine how Indigenous communities experience climate change impacts and how they respond to such change. This collaboration provided me with guidance, translators, and local networking to complete the fieldwork. The IDRC funded the project.

2012/03-2013/09	*My Role*: Researcher and Principle Investigator, Sri Lanka
	Activity Description: I collaborated with the University of Kelaniya, Sri Lanka, on fieldwork in Sri Lankan shrimp farming communities. The contact for the collaboration is Dr. Upali Amarasinghe (NAqDA board member). The project aimed to examine the community-based shrimp aquaculture of shrimp farming communities undergoing a shrimp disease problem. This collaboration provided me with guidance and contacts at NAqDA (the government institution responsible for shrimp aquaculture). The Canada Research Chair program funded the project.

PROFESSIONAL EXPERIENCE	
Year	Employment details
2021/08-present	*Title*: Assistant Professor
	Place: Department of Geography, Virginia Tech
2021/06-2021/08	*Title*: Research Scientist
	Place: Arctic and Aquatic Research Division, Department of Fisheries and Oceans Canada,
2020/07-2021/08	*Title*: Research Professional in Northern Indigenous Fisheries Management
	Place: Marine Arctic Resilience, Adaptations and Transformations (MARAT) project, Laval University, Quebec
	Job description: MARAT has a strong natural science focus. To it, I am bringing my social science perspective to understand 'How Indigenous knowledge and western science could combine to inform adaptive co-management of Arctic Char fisheries in the face of shifting marine food web dynamics and climate change?' Here, I am contributing in the following ways: designing research paper ideas, leading systematic literature reviews, and building data analysis in my doctoral fieldwork with Inuit communities.
2015/05-2015/10	*Title*: Forest Health Protection Inspector
	Place: Government of Manitoba-Conservation and Water Stewardship, Winnipeg, Canada
	Job description: Travelled throughout communities in southern and eastern Manitoba to identify symptoms of Dutch elm disease and to mark dead, dying, and diseased trees for removal; communicated about and promoted the Dutch elm disease program to the public; prepared and implemented work plans to accomplish targets and geographical coverage rates of survey completion; communicated survey activities in collaboration with the main office in Winnipeg; collected field data manually and electronically using ArcGIS mobile devices; discussed and produced progress and productivity reports on a regular basis.
2013/11-2015/05	*Title*: Research Assistant
	Place: Centre for Community-Based Resource Management, NRI, University of Manitoba, Winnipeg, Canada
	Job description: Participated in literature search and compilation of a Case Study Database—a tool for storing and retrieving up-to-date international literature on community-based resources management (CBRM); contributed by providing feedback/input about the Centre's ongoing projects and by representing the Centre during presentations and discussions; worked in collaboration with the Canada Research Chair, other collaborators in the CBRM field, visiting scholars, departmental staff, and graduate students; developed and maintained working relationships with scholars, networks, and institutions in the field of CBRM.
2011/01-2011/09	*Title*: Crew Leader
	Place: Statistics Canada-Survey Operations Division, Northern Enumeration: 2011 Census and National Household Survey, Manitoba, Canada

	Job description: Led Census Enumeration Field Teams (3-12 members in each team depending on the size of the community) during Census enumeration in about 15 communities in northern Manitoba; prepared and implemented work plans to accomplish target rates of survey completion; managed financial, human, and material resources under tight deadlines and budgetary constraints; supervised data collection, checked for data quality, and maintained records; interviewed and hired team members and provided field training; hired native-language translators, guides, and enumerators from local communities; coordinated enumeration activities in collaboration with the Western Canada Regional Office in Edmonton; submitted data through the online Field Management System; produced progress and productivity reports on a regular basis.
2009/10-2010/10	*Title*: Consultant, Research & Development
	Place: Ceylon Foods Ltd, Pamunugama, Sri Lanka
	Job description: Formulated and implemented improvements in systems, procedures, and workflows to enhance productivity of seafood processing operations and plants; optimized company-owned resources by identifying alternative uses for underutilized assets; guided and motivated staff to achieve increased levels of efficiency during the change process; developed a database of farmers involved in shrimp supply chains to ensure a continuous supply of raw material; carried out an extended work-study to identify areas requiring improvement related to the processing mechanism.
2008/01-2009/09	*Title*: Assistant Director, Research & Development (covering)
	Place: Ocean University of Sri Lanka*, Colombo, Sri Lanka
	Job description: Liaised with the Fisheries Ministry to interpret, implement, and administer relevant recommendations for the country's 10-year fisheries sector development framework; prepared project concept papers/proposals related to human resource development in the fisheries and aquaculture sector to attract donor funding (projects included using a tracking device to locate fishermen at sea, and safety sea procedures related to the loading and unloading of cargo); formulated and implemented programs that would allow different small-scale fishery communities to develop their livelihoods in collaboration with other stakeholder organizations; studied the systems in detail; formulated and implemented ways and means to minimize costs and manage waste; assessed the institute's physical resources to re-allocate underutilized resources for effective optimization; involved directly in formulating the institutional corporate plan. I continue key roles in the Fisheries Training Assistant position (e.g., lecturing) while covering work in this position.
2006/01-2009/09	*Title*: Fisheries Training Assistant
	Place: Ocean University of Sri Lanka*, Colombo, Sri Lanka
	Job description: Main duty is cause module and training program design, participating in student recruitment activities, delivering lectures and evaluating students, and mentoring diploma to undergraduate students. Moreover, I served to national wide fisheries collages; traveled to isolated rural communities to conduct lectures/training programs on fisheries and aquaculture; developed and revised programs targeting different fishing groups; conducted practical sessions and field demonstrations; instructed Fisheries Management and Aquaculture for Diploma students; prepared teaching materials and assignments; supervised examinations; and marked papers and assignments.
2003/05-2005/12	*Title*: Shrimp Farmer/Entrepreneur/Aquaculturist
	Place: Shrimp farming project at CeyTech Aqua Ltd., Marawila, Sri Lanka
	Job description: Started aquaculture business initially partnered with CeyTech Aqua Ltd and, later, as its own business entity; developed aquaculture business and managed human resource (up to 12 staff members), financial, marketing, and operational functions of the

	business; maintained laboratory facilities to ensure quality standards in aquaculture operation.

*The National Institute of Fisheries and Nautical Engineering (NIFNE) later become the Ocean University of Sri Lanka.