

Curriculum Vitae for Dr. Abdullah-Al Mamun

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Research interests

Traditional/native knowledge system: Indigenous research methodologies, issues and challenges in engaging traditional knowledge in ecosystem research, ethnoecological studies, biocultural knowledge, local beliefs, and practices, aboriginal treaties/rights/enlistments, indigenous lands/resources planning, traditional food systems and wellbeing.

Social-ecological systems: Applications of modern theories, concepts and frameworks to understand the interlinkages between society and nature (e.g., Multi-stakeholder common property systems, couple-human nature systems, resilience, fit and interplay) along with issues of equity, indigenous rights, marginalization, environmental justice, social wellbeing, powers and institutions in connection with ecosystem conservation and management of natural resources

Aboriginal climate adaptation: Outreach and youth training for gathering scientific data, apply traditional ecological knowledge including signs and signals and markers) identified by Aboriginal members to understand climate change impacts; understanding the overall impacts of climate change on fisheries and other ecosystems including forests (fires) and waters (health/wellbeing/local transportations) and related implications to food security and livelihoods of local communities especially at the Canadian North.

Multilevel governance: Multi-stakeholder approach to resource governance (community-based management of waters, forestry, fisheries), Adaptive learning and institutional sustainability (sustainability of community-based organizations-CBOs, linkages/networks, and community capacity).

Community-based monitoring and conservation: Community-based conservation of critical habitats (fisheries, forests, and waters). Community detection of environmental changes using traditional knowledge and community participation in natural science research (water quality and productivity assessment); human health and well-being research of ecosystem services.

Aboriginal fisheries and food security: Aboriginal mixed economy, and local producers and marketing (value chains) applicable to Sub-Arctic and Arctic Canada; Nutrition North Canada (NNC)'s food subsidy programs, food supply networks (Northern Coops, Northwest Company and other suppliers),

Educational background:

Multidisciplinary educational background in social and biological sciences as follows:

- i) *A Ph.D. in Environmental Management from a Joint University of Waterloo-Wilfrid Laurier University Graduate Program in Geography-2013. My Ph.D. research focused on managing community-based conservation reserves/protected areas using traditional ecological knowledge to recover habitats. I evaluated the social, economic, and ecological impacts of fisheries co-management in managing small-scale fisheries in rivers, lakes and flooded lands.*
- ii) *A Master of Natural Resources Management (MNRM) degree from the Natural Resources Institute at the University of Manitoba-2007. My focus of was on integrated floodplain resource management and application of traditional ecological knowledge to recover habitats for conservation of indigenous species*
- iii) *A M.Sc. and a B.Sc. in zoology with a major in fisheries management and ecology from Jahangirnagar University Bangladesh*
- iv) *Certificate courses: a) USAID supported Land Tenure And Property Rights course 2018 (In progress); and b) Certificate courses in Sustainable Resource Management and Renewable Resource Management (UNESCO Approved ALISON Courses)-2014*

EXPERIENCE

A. Research Experience

Indigenous Policy Advisor (October 2018 to Present): Federation of Saskatchewan Indian Nations and Prince Albert Grand Council, Saskatchewan

- Arrange meetings with Ministries (Ministry of Environment, Environment and Climate Change Canada) and native organizations to promote community engagement in natural resource and climate change projects
- Sit with Aboriginal land managers to discuss various issues that affect Indigenous communities belongs to the organizations above and also take notes and prepare briefing documents for Aboriginal leaders and senior managements
- Support the review works including Trans Mountain Pipeline Project and Canadian Nuclear Safety Commission's Regulatory Oversight Report (ROR) and Boreal Range planning for woodland caribou conservation including species at Risk programs.
- Attend judicial and public hearing on behalf of the above organizations
- Prepare funding proposals for ecosystem based project including Aboriginal climate monitoring, habitat reclamation and restoration

Postdoctoral fellowship (January to March and October 2018 to present): Environmental Monitoring Review Canada. Dept. of Geography and Planning with the University of Saskatchewan (With Dr. Bram Noble)

- Conducted a thorough review of the uncertainty disclosures process in the Environmental Assessment (EA) of natural resource projects (hydroelectric dams, mines, etc.) through studying the related documents (published papers, reports, acts, rules and regulations and related submissions by publics during hearing processes)

- Identified issues in communicating uncertainties in environmental review process including cumulative impact assessment
- Prepared interview questionnaires, communicated, scheduled and conducted phone interviews of board members from the National Energy Board (NEB) and other independent panel members who support environmental projects in Canada.
- Transcribed data and coded them to prepare reports and publish papers
- The findings were used to prepare a "Practitioners Guide" to support mitigation measures for natural resource projects in Canada

Postdoctoral Fellow- (October 2014 to November 2016)-Traditional Ecological Knowledge for Range Planning, University of Saskatchewan and Ministry of Environment Saskatchewan

- Supported a research related to mapping and modelling traditional ecological knowledge through Aboriginal engagement (Worked with 13 Aboriginal Bands in northern Saskatchewan)
- Prepared work plans discuss the plan and study with Ministry of Environment Saskatchewan Aboriginal engagement and hold multi-stakeholder meeting
- Reviewed existing reports and published papers on Species at Risk Recovery Plans (national and provincial levels), traditional knowledge, and predator culls (wolves and others)
- Developed interview questions, posters to be used at community level and collected data, did transcription works and analysis
- Collected data through participatory mapping and story-telling, trapper meetings etc.
- Organized face to face interviews with elders for primary data collection including tribal chiefs/leaders, band council members from Indian, Metis and Dene Communities of Northern Saskatchewan
- Participated community activities of local indigenous groups such as cultural camps and fish derbies
- Attended hunting and gathering based livelihood activities (fishing and trapping and skinning of moose and elks and smoking) with local native communities
- Developed GIS maps, posters and leaflets based on traditional knowledge of Aboriginal communities about the changes at boreal forests of northern Saskatchewan
- Prepared reports concerning the protection of boreal forests and range planning process at Northern Saskatchewan for the conservation of woodland caribou
- Secured information on fires and other anthropogenic disturbances (roads, mines, power lines) causing decline of wildlife and fishes in boreal forests

Postdoctoral Fellow (December 2016 to November 2017): (With Dr. David Natcher, University of Saskatchewan)

Project-1 Arctic Canada wild harvest research-Arctic Council sponsored program

- Studied the challenges faced by the local Aboriginal groups in Canadian Arctic (Inuit and other Aboriginal groups) such as rules and regulations including quotas that often prohibit the of Arctic community in harvesting wild foods and related marketing

- Reviewed the annual reports available through Aboriginal organizations especially from the Nunavut Development Corporation, Labrador Inuit organizations related to food harvesting such as Pangnirtung Fisheries
- Analyzed the trends in harvesting and processing of Arctic foods (e.g., barren ground caribou, muskox, arctic char, coldwater shrimps, Greenland Halibut etc.) by Inuit and other Aboriginal Communities in Canadian Arctic (Yukon, Northwest Territories, Nunavut, Labrador)
- Investigated the potentials for commercialization of Arctic wild foods (e.g., Arctic Char, Greenland halibut, northern shrimp, caribou and muskox production and marketing
- Evaluated the capacity of local processors of Arctic foods and related constraints (e.g., Kitikmeot foods, Kivalliq Arctic Foods, Pangnirtung Fisheries, and Arctic Alliance etc.
- Assessed the harvest trends in country foods (quantitative and qualitative Assessment), and their roles in commercialization of Arctic foods to support mixed economy and food security of Inuit
- Assessed the food subsidy program of Nutrition North Canada (NNC) to understand its impacts on food security in Arctic Canada
- Prepared GIS maps of production zones, locations of arctic producers, export destination, ties of southern food suppliers with northern communities and food geographies based on arctic harvests and commercial productions.

Project-2 Assessment of Community-based aquatic monitoring programs in Alberta, Canada and International levels. Government of Alberta and University of Saskatchewan

- Reviewed the trends in community-based monitoring (reports and published papers, community webpages) on aquatic resources focusing on Alberta and Canada
- Investigated the status of science-based monitoring and their roles in data collection and monitoring especially in Arctic Canada including Athabasca Watershed
- Assessed the trends in community-based monitoring focusing other resources at international level (Forestry, wildlife and environment) and technological innovations such as use of drones or cellphones and photo-voice as tools for data collection
- Looked at the challenges communities face in sharing data and participating joint programs

Doctoral research (2013)

- Investigated how participatory governance approaches (e.g., co-management) influence local fisheries systems and institutional arrangements (e.g., community-based organizations), income diversifications of local resource users and livelihoods of fishers and other stakeholders attached to open water fisheries systems
- Applied community-based research designs including PRA-base data collection and research techniques
- Used several researches, several tools such as Nvivo, SPSS, Alas.ti and GIS for managing data and performing analyses
- Did analysis related to resilient social-ecological systems in co-management such as how natural sanctuary development processes was managed by local users and local users got benefited from fishing through saving ecosystem properties along with other livelihood

approaches (cultivation of low water crops such as maize) for facing challenges related to climate change

- My results indicated that for facing human effects on ecosystems such as in small-scale water bodies, local participation is required but unless communities are well prepared by enhancing their own capacity and learn how to manage ecosystems, participation in facing challenges related to degradation of ecosystems are not effective and remains just as a rhetoric than a reality

Masters research (2007)

- Identified human impacts on wetlands and loss of ecosystem services such as fisheries production in open water fisheries using GIS and local knowledge of fishers
- Investigated the type of local ecological knowledge available among fishers and other users engaged in inland fisheries of Bangladesh and how it can be used with scientific knowledge to support policy development for governance of water and fisheries to generate livelihoods incomes
- Identified how developmental pressures (industrial use of waters, embankment to protect farmlands) threats conventional uses of fisheries and risk local livelihoods of fishers
- Thesis finding included portraying local degradation processes in wetlands as a result of human use and path of eroding local knowledge such as changes of professions from fishing to other forms in the absence of fisheries opportunities

M.Sc. research (2000)

- M. Sc. Thesis research on aquaculture practices in upland habitats in North Central Region of Bangladesh
- Collected water samples from three ponds to measure water quality
- Identified types of environmental (loss of wildlife habitats) and social risks related to aquaculture development such as loss of jobs for conversion of water ways to aquaculture farms.

B1. Teaching experiences

- 2017 (winter) Sessional Instructor- Kanawayihetaytan Askiy (Ka) Program (AK 201.3) Indigenous Resource Management Project Assessment. Indigenous Land Management Institute, University of Saskatchewan
- 2017 (fall) Co-teacher: ECUR164- Is this a course about science? Science for Elementary and Middle Years Teaching. With Dr. Tim Molnar, Department of Education, University of Saskatchewan
- 2017 (winter) Aboriginal People and Natural Resource Management (RRM 312) – Co-teaching with Dr. David Natcher, Indigenous Land Management Institute, University of Saskatchewan
- 2016 Aboriginal People and Natural Resource Management (RRM 312) – Co-taught with Dr. David Natcher, Indigenous Land Management Institute, University of Saskatchewan

- 2015-2016 Integrated Management, Planning and Project Development (IPRMP 210.03), co-taught with Dr. Ryan Brook, Indigenous Land Management Institute University of Saskatchewan (Completed 12 classes as assigned for 2016 Winter)
- 2015-2016 Lectured for Animals and Environment (ANBI 375.3) course with Dr. Ryan Brook, Indigenous Land Management Institute, University of Saskatchewan
- 2015 Member, Aboriginal Program Advisory Group for developing curriculum for a four year diploma program, University of Saskatchewan (Booked for three classes)
- 2013 Research Assistant-Governance and Innovation in Coastal Fisheries - With Dr. Derek Armitage, Waterloo University
- 2010 Teaching Assistant, Environmental Management, and Natural resource - With Dr. M. Gaffari, Wilfrid Laurier University
- 2009 Teaching Assistant, Political ecology: Nature, society, and sustainability - With Dr. Derek Armitage, Wilfrid Laurier University (Waterloo University)
- 2009 Research Assistant, Northern resources and environments - With Dr. Derek Armitage, Wilfrid Laurier University (Now at Waterloo University) 2009 Teaching Assistant, International development and natural resource - With Dr. Kevin Hanna, Wilfrid Laurier University
- 2008 Research Assistant, Global food security and the environment - With Dr. Alison Blay Palmer, Wilfrid Laurier University
- 2007 Research Assistant, Transboundary water management - With Dr. Emdad Haque, University of Manitoba
- 2005-2006 Research Assistant, Natural Resources Database programs - With Dr. Fikret Berkes, Canada Research Chair, University of Manitoba

B2. Mentorship/project supervision experiences:

- 2017 Mentored ten students from the Soil Science Department at the University of Saskatchewan conducting research project related to Aboriginal fisheries program (Eco-certification) of Ile a La Crosse community in the northern Saskatchewan for their undergraduate study
- 2007 Supervised 16 field staff conducting a field survey on ecosystem health and native resource harvest mechanisms in the Asian Region while working for the WorldFish Center (www.worldfish.org).

C. Professional experience

Researcher, 2014

REEP Green Solutions Kitchener, ON-Storm Water, and Fisheries Program

- Worked as a researcher for reviewing reports on water quality monitoring of lakes and rivers impacted by storm waters at and prepared reports on the impacts of storm waters on Grand River Systems, Southern Ontario, Canada such as loss of fisheries and degradation of water quality and its impacts on industrial and household uses of waters
- Collected data and prepared reports and blogpost on properties responsible for adding storm water systems on ecosystems such as parking lots big malls and institutions

- Assessed flood damaged across Grand River Watersheds
- Supported multi-stakeholder meetings related to rain water harvests and used for local tree plantations for biodiversity conservation in urban areas
- Helped demonstration of technological innovations for stormwater management (rain barrels and use of waters for community gardens, non-porous surface for lawns and drives ways to capture storm waters and multipurpose uses)

Research Associate, 2011-2012

Center for Community Based Research, Kitchener, ON

- Worked as volunteer for developing proposals for secure funding, supervised project activities, performed data analysis, and reporting
- Oversaw the ongoing projects related to park and protected area management and recreation facilities

Project Biologist, 2010

Steep Rock Mine Rehabilitation Program, Ontario Ministry of Natural Resources, Northwestern Regional Office, Thunder Bay, ON

- Helped developing interactive maps of Atikokan area in connection with three huge mine pits, measured impacts on seine river watershed associated with various anthropogenic stressors such as urban and agricultural land uses and human population.
- Helped in gathering historical data such as rainfalls, snow covers, and temperatures and performed related analyses to understand trends of temperature changes and relationships with rainfalls and flow increase in seine river system and related watersheds
- Performed tasks related to ecological assessment (experimental netting/trapping of fish and marsh bird monitoring for wetland evaluation) and biomonitoring of pit lakes
- Organized community meeting for agro-forestry development in pyrite reach areas
- Identified scope of developing fisheries for tourism development in peat lakes for incomes generation of local aboriginal groups at Atikokan, Thunder Bay, ON.
- Worked with team of engineers and GIS experts for mapping/modeling of pyrite rich areas, tailing deposits and assessed the impacts of pyrites in aquatic and terrestrial ecosystems using GIS
- Used LiDAR aided data in GIS environment for assessing the pit filling rates and water level increase. Findings from such analysis were used in decision making process concerning rehabilitation of iron mines and risk assessment in the case of spill overs of pit lakes

Research Associate, 2004–2006

Natural Resource Co-management Programs, WorldFish Center, Dhaka

- Collected and analyzed environmental data (e.g., water levels, oxygen and carbon dioxide, BOD etc.)
- Prepared reports on resource mapping, and interpreted results of catches and other ecosystem development activities of co-management programs and published papers
- Worked for developing GIS data sets from land-use maps of Bangladesh. Produced habitat maps of floodplain fish species to identify their range and catch levels per species

- Arranged multi-stakeholder meeting for community participants and project managers to inform about conservation needs in floodplain and river habitats
- Demonstrated storm water management innovations technologies (e.g., rain barrels, porous surface lawns and drive ways, indigenous species gardens supported by storm waters)

Research Biologist, 2000-2003

Center for Environmental and GIS Support Project for Water Sector Planning (EGIS II), Bangladesh

- Participated at GIS-based modeling of fisheries and hydrological data related to catch statistics, habitat changes covering inland, Marine, Culture fisheries and related socioeconomic parameters
- Acted as fisheries expert in designing and preparing Bangladesh GIS-based national fisheries database preparation
- Investigated water management programs related to drainage rehabilitation and management of coastal rivers in southern Bangladesh
- Did historical changes in catch and fishing methods, management regimes and conflict resolution, and future strategies for ensuring better management practices
- Participated as a fisheries expert for EIA study of river restoration, bulk removal of river water for domestic uses and its impact on aquatic habitats
- Supported in developing strategic planning and management of floodplain fisheries
- Evaluated coastal fisheries management systems including demographic features of the fishing community
- Performed GIS-based analysis salinity intrusion in coastal landscapes and expansion of shrimp aquaculture
- Delineated mangrove forest damages from aquaculture in Sundarbans Coastal forests and its socioeconomic impacts and implications for management
- Conducted water quality monitoring of rivers and floodplain

Project Biologist, 2000

Various Environmental Projects at International levels

- Attended Impact monitoring of roads/dams, water control structures, habitat assessments and interpretation and report preparation
- Collected water quality data (e.g., P^H, CO₂, O₂, Transparency, TDS, hardness, TDS and temperatures)
- Participated fieldwork included vegetation sampling, observations of migratory and resident species of birds and fishes and aquatic invertebrate sampling and identification of location of fishing grounds using GPS/topographic maps
- Supported data entry, analysis, and prediction on future change in fisheries and ecosystem of rivers, lakes and floodplain areas
- Performed GIS-based modeling hydro-biological and fish catch data and predicted habitat changes and measured inland, marine, and culture fisheries and presented in GIS environment

- Collected and analyzed data related to Environmental Impact Assessment (EIA) of various water management programs (e.g., cross dams and embankments) and assessed their impacts on fisheries and other aquatic processes
- Participated as a fishery expert for an EIA study on river restoration and diversion program related to bulk removal of river water and its impact on aquatic habitats
- Assisted in the development of report, strategic planning and management of floodplain and coastal fisheries based on results from fisheries surveys, water, and GIS-based modeling
- Performed environmental impact study (EIS) of flood control structures/roads/culverts based on water quality data-TDS, Oxygen, transparency etc.

RESEARCH ACHIEVEMENTS

Published Book and Research Papers

A. Book

1. A. A. Mamun, 2006. *A Hand Book on Inland Fisheries of Bangladesh*. WorldFish Centre, Dhaka, Bangladesh. 80 pp

B. Peer reviewed articles-Journals articles published (N=10)

1. Loury, E., S. M. Ainsley, Shannon Bower, Ratana Chuenpagdee, Tracy Farrell, Amanda G. Guthrie, Sokrith Heng, Zau Lunn, A. A. Mamun, Rodrigo Oyanedel, Steve Roccliffe, Suvaluck Satumanatpan, and Steven J. Cooke. (2018). Salty Stories, Fresh Spaces: Lessons for Aquatic Protected Areas from marine and freshwater experiences. *Aquatic Conservation: Marine and Freshwater Ecosystems*. Aquatic Conservation: Marine and Freshwater Ecosystems: 1–16. DOI: 10.1002/aqc.286
2. Natcher, David; Kalagnanam, Viji, Rawal Ramesh; Johnston, Mark; Gresiuk, Alexandra and Mamun, A. A. (2017). Livelihood Responses to Environmental Change in Rajasthan India" (TFTL-2016-0043) has been submitted to the *Journal of Forests, Trees, and Livelihoods*. *International Journal of Sustainable Development & World Ecology*: 1-9. <http://dx.doi.org/10.1080/13504509.2017.1304462>
3. Mamun A. A. (2016). Capacity Development through Comanagement: Investigating Approaches and their Effectiveness in Developing Local Capacities in Rural Bangladesh. *International Journal of the Commons*. *Lined up for 2016 Vol 10-Issue 1 of the Journal*
4. Mamun, A. A. and R. Brook. (2015). Evaluating local rules and practices for avoiding tragedies in small-scale fisheries of oxbow lakes, Southern Bangladesh. *International Journal of the Commons* Vol. 9, no 2 September 2015, pp. 772–807
5. Mamun, A. A. (2015). Leadership in community-based organizations: What fisheries comanagement teaches us? *International Journal of Social Science Research*, 3 (1):172-188
6. Mamun, A. A. (2013). Mechanisms of Enhancing Social-Ecological Resilience in Human-Altered Wetlands through Comanagement. *Journal of Geography and Natural Disasters*. 3: 115. doi:10.4172/2167-0587.1000115
7. Mamun, A. A. 2012. Some observations on regulatory elements concerning management and conservation of inland fisheries of Bangladesh. Book Chapter. In Janice S. Intilli (Editor). *Fisheries Management*. Nova Publishers, NY. PP-23-42

8. **Mamun, A. A.** 2010. Understanding the Value of Local Ecological Knowledge and Practices for Habitat Restoration in Human-Altered Floodplain Systems: A Case from Bangladesh. *Journal of Environmental Management*, 45: 922-938
9. **Mamun, A. A.** and C.E. Haque. 2008. Understanding culture-based fisheries: An assessment of community-managed beel fisheries in Bangladesh. *Journal of Asian Fisheries Science*, 21(3): 257-273
10. **Mamun, A. A.** and Hye, M. A. 2002. Some environmental and socioeconomic aspects of Kaptai Lake fisheries. *National Encyclopedia of Bangladesh*. C/O Asiatic Society of Bangladesh, Section 6.3

C. Articles under review and communicated:

1. **Mamun, A.A., R. Brook.** (Under third review). Aboriginal belief systems with woodland caribou and other deer at the boreal forests of Northern Saskatchewan. *Oryx Journal of Conservation*
2. **Mamun, A.A.** and D. Natcher. The Arctic producers: Challenges and Opportunities (under internal review process)
3. **Mamun, A. A.** and R. Brook. GIS-based Mapping of Home Range and Status of Woodland Caribou habitats using Aboriginal Traditional Ecological Knowledge. *Rangifer Journal*
4. **Mamun, A. A.** and R. Brook. (Communicated): Power dynamics and institutions in Species at Risk Research in Canada: A case study of woodland caribou recovery process in Canada. *World Development*
5. **Mamun, A.A.** and R. Brook. (Communicated). Aboriginal perspective of disturbances at lands and their impacts on wildlife: Examples from Boreal forest zones of Northern Saskatchewan. *Rangifer Journal*

D. Manuscripts in preparation or to be submitted in next six months-from Ph.D. and Postdoc

1. **Mamun, A.A., D. Armitage,** and S. Slocombe. (In internal review process). A multi-framework approach to analyzing the social-ecological resilience in small-scale fisheries of southern Bangladesh
2. **Mamun** and R. Brook. (Under prep). Hunter knowledge in defining habitat selection patterns of woodland caribou in North-Central Saskatchewan
3. **Mamun, A. A.** (Under prep). Hunting-based livelihoods of native communities of Northern Saskatchewan in a changing world. A contemporary evaluation
4. **Mamun, A. A.,** and D. Natcher. (Under Prep). Wild food harvests, marketing trends and local dependencies and policies affecting food harvests: An overview
5. **Mamun, A. A.,** and D. Natcher. (Under Prep). How is our musky buffalo (muskox) doing at Arctic in the era of climate change? A social-ecological evaluation
6. **Mamun, A. A.,** and D. Natcher. (Under Prep). Managing Arctic Charr: Opportunities for commercial harvests and future challenges
7. **Mamun, A. A.,** and D. Natcher. (Under Prep). Trends in wild harvests: A contemporary evaluation Evaluating LIFO impacts on Arctic Shrimp Harvests and social economy
8. **Mamun, A. A.,** and D. Natcher. (Under Prep). Food processors in Arctic: Their social roles through food security and impediments
9. **Mamun, A. A.,** and D. Natcher. (Under Prep). Trends in community-based monitoring of natural resources in Alberta and beyond: A review

10. **Mamun, A. A.**, and D. Natcher. (Under Prep). Comparing Aboriginal Participation in CBM projects: Australia Vs Canada. Review paper

E. Refereed Papers-Conference Proceedings (Abstracts and others)

1. **Mamun, A. A.**, N. Carrier and R. Brook and K. Bateson, 2016. Conservation planning for woodland caribou based on Traditional Knowledge systems: Aboriginal engagement process and outcomes. July 17-19, Madison, WI
2. Carriere, N., **A. A. Mamun** and R. Brook. 2015. Local and traditional knowledge in defining habitat patterns of woodland caribou in North-Central Saskatchewan. Paper presented at the Association of Canadian Geographers Conference, 1-5 June 2015, University of British Columbia, Vancouver
3. **Mamun, A.A.** 2012. Leadership in local fisheries systems: What comanagement teaches us? *Conference Proceedings of Canadian Geographers*, University of Toronto, Scarborough, ON, October 18-21, 2012
4. **Mamun, A.A.** 2007. Climate change adaptation: A Bangladesh Perspective. *Proceedings of international conference on human-dimensions of ocean management*, University of Ottawa, October 24 - 27, 2007
5. **Mamun, A. A.** 2006. Managing fisheries in human altered floodplain systems. *Proceedings of international conference on governance and management of resource in human-altered ecosystems*, UCLA, California, October 24-28, 2006
6. Mustafa, M. G. and **A. A. Mamun**. 2005. Lessons learned from stock enhancement under community-based fisheries management program in small-lakes of in Bangladesh. *Proceedings of World Aquaculture Symposium*, Bali, Indonesia, May 19-25, 2005
7. **Mamun, A. A.**, K. K. Ahmed, K. A. T. Ataul Karim and M. E. Haque. 1997. Need of inland open water fishery management in Bangladesh. *Proceedings of international conference on large scale water resources development in developing countries: New dimensions of problems and prospects*, Kathmandu, Nepal, 20-23 October 1997

Invited Presentations

1. **Mamun, A. A.**, N. Carrier and R. Brook. 2016. Conservation planning for woodland caribou based on Traditional Knowledge systems: Aboriginal engagement process and outcomes. Paper presented at the 3rd NACCB 2016 North American Congress for Conservation Biology (Symposium SYM43.2 Looking back, looking forward: Topics in indigenous conservation) held in Madison, WI, USA from July 17-21 2016
2. **Mamun, A. A.** and A. Potkin. 2016. Freshwater conservation reserves of inland rivers at Southern Bangladesh. A social-ecological evaluation. Presented at the 7th World Fisheries (Symposium: Congress called Salty stories, fresh spaces: crossover lessons for conserving biodiversity and sustaining fisheries with marine and freshwater protected areas) held in Busan, Korea 23-27 June 2016
3. **Mamun, A. A.**, N. Carrier and R. Brook. 2015. Mapping and Modelling Aboriginal Traditional Knowledge about Woodland Caribou in Saskatchewan in Support of Range Planning. Internal workshop organized by Ministry of Saskatchewan, 1 December 2015 held at Regina, Saskatchewan

4. **Mamun, A.A.** 2014. On Local Rules and Practices for Sustainable Small-Scale Fisheries in Oxbow Lakes, Southern Bangladesh. Canadian Association of Geographers May 26-30, 2014
5. **Mamun, A.A.** 2014. Processes of enhancing social-ecological resilience in wetland systems: A participatory Approach. World Wetland Day Workshops. University of Waterloo, ON, January 31, 2014
6. **Mamun, A.A.** 2013. Whose participation count in joint fisheries and ecosystem management? 2013 Midwest Conference on Asian Affairs (MCAA), Michigan State University, USA, October 25-27, 2013
7. **Mamun, A. A.** 2013. Developing social-ecological resilience in human-altered floodplain systems. A.D. Latornell Conservation Symposium on resilience will be held at University of Guelph, Ontario, November 20_22, 2013
8. **Mamun, A. A.** 2012. Leadership development though comanagement: What comanagement teaches us? Canadian Geographers, University of Toronto, Scarborough, CAG-Ont, October 18-21, 2012
9. **Mamun. A. A.** 2012. Co-management for local capacity: Issues of participation in fisheries systems of Bangladesh. GSA presentation series, Wilfrid Laurier University, Waterloo, January 21, 2012
10. **Mamun, A. A.** 2009. Participatory governance of fisheries systems to face climate change.
Human dimensions in marine governance, OMRN (Ocean Management Research Network), International Conference, University of Ottawa, October 24-27, 2009. I also worked as rapporteur/moderator for several sessions of the conference
11. **Mamun, A. A.** 2007. Climate change adaptation: A Bangladesh Perspective. OMRN (Ocean Management Research Network), International Conference, University of Ottawa, October 23-26, 2007

Awards, Grants, and Honors

- 2018- Indigenous Community-Based Climate Monitoring Program. **Project Title:** Put community in the center: engaging traditional knowledge and science in monitoring climate impact in the territories of the Prince Albert Grand Council in northern Saskatchewan. Submitted with Prince Albert Grand Council, SK where University of Saskatchewan is a Partner. This is an INAC grant and under active consideration with few modifications (Canadian \$350K/year)
- 2019- Environment and Climate Change Canada's EcoAction Community Funding Program 2019/2020. **Project title-** Redefining Biocultural Relationship of Indigenous communities through engaging habitat remediation projects for woodland caribou conservation: (Application in prep)
- 2015- Aboriginal Fund for Species at Risk, the Saskatchewan Ministry of Environment, and the University of Saskatchewan Grant (Co-Applicant-Dr. Ryan Brook)-\$50,000
- 2011-2012-Ontario Graduate Scholarship-\$24,000
- 2010-2012-Top-Up Students Awards, Wilfrid Laurier University-\$5,000
- 2010-2011-DRC-International Developmental Research Center Awards for Ph.D. Research \$19,500
- 2007-2011-Graduate Studies Awards, Wilfrid Laurier University-\$60,000
- 2010-Laurier Faculty Research Grant for Ph.D.-\$1,100

2009-Laurier Faculty Research Grant for Ph.D.-\$6,500
 2009-Laurier Graduate Scholarship for Ph.D. - \$6,500
 2009 -Graduate Teaching Assistantship for Ph.D. - \$6,500
 2008-Laurier Faculty Research Grant for Ph.D. - \$6,500
 2007-2010-Graduate Bursaries, Wilfrid Laurier University for Ph.D.-\$2,000
 2006-Travel Grants, WorldFish Center, Dhaka, for Masters -\$5,000
 2005-2006 -Graduate Bursaries, University of Manitoba, for Masters-5,000
 2004-2006-Research Fellowship, Canadian Research Chair and IDRC for Masters-\$14,000
 2004-2006-Research Fellowship, WorldFish Center, Dhaka, for Masters\$27,000
 -2005Travel Grants, GSA, University of Manitoba, for Masters-\$400

Membership in Professional Societies/Groups

Member, Canadian Association of Geographers (CAG)
 Member, Canadian wildlife Society, Saskatchewan Chapter
 Member, Waterlution, Grand River Hub
 Member, Marine Resource Research Network, Canada
 Founder member, Governance and Resource Group, Waterloo University, ON, Canada
 Member, Search Committee for the Director of Natural Resources Institute, University of Manitoba (2005-06)

Other Scholarly Works and Community Services

- Reviewer for referred journals: *The international Journal of Fisheries and Aquaculture; The Sustainability Collection; International Journal of Social Science Research; Life Science Journal*
- Student representative, Natural Resource Institute, University of Manitoba (2005-2006)

MEDIA ENGAGEMENT AND SERVICE

Media Coverage A. Blog

posts:

Mamun, A. A. (2014). Hope for Human-Altered Landscapes in Southern Bangladesh. Media article published in People, Food and Nature Forum for eco-agriculture. URL:

<http://peoplefoodandnature.org/blog/hope-for-human-altered-landscapes-insouthernbangladesh/>

Mamun, A.A (2014). Stormwaters and Fisheries of Grand River System, Ontario, Canada. Internal News Item, Reep Green Solutions, Kitchener, Ontario

B. Radio Interview

Lake fisheries in northern hills of Bangladesh: Live radio interview with local news program of Rangamati Hill Tracts Radio, Bangladesh, October 1, 2001, 6 pm Local Time

C. Newspapers and Magazines

- Bouth (Festival fishing) in wetland lakes of Bangladesh-WorldFish News, Dhaka, July 2003 Issue
- Community Fisheries-Fish Fortnight Magazine, Bangladesh October 2003
- Folk dramas and their impacts on fisheries development programs-WorldFish News, Dhaka, October 2003

- Significance of small fishes in inland waters-Bangladesh Observer, Feature Article, October 1, 2001
- Asian History of aquaculture-Bangladesh Observer, Feature Article, December 1, 2001

D. Museums

- Fish specimen preservation and archiving*-Museum of Department of Zoology, Jahangirnagar University, Dhaka-2000
- Fish specimen preservation and archiving*-Swedish Museum of Natural History, 1997

RELEVANT TRAININGS AND CERTIFICATES

1. e-portfolio Development-University of Saskatchewan-2016
2. Flipped teaching- University of Saskatchewan-2015
3. Teaching for Graduate Students and Post-Doctoral Fellows-University of Saskatchewan 2015
4. Personalizing the Course Syllabus- University of Saskatchewan-2105
5. Postdoctoral and teaching training, University of Saskatchewan-2105
6. Radio-collaring and wildlife monitoring training, University of Saskatchewan-2015
7. Media performance training, University of Saskatchewan-2015
8. Network-based analysis training University of Saskatchewan -2015
9. Funding proposal development training, University of Saskatchewan-2015
10. Mapping training (Open street map), University of Saskatchewan-2014
11. GIS Application training, Ontario Ministry of Natural Resources-2010
12. Standard First Aid Training, Ontario Ministry of Natural Resources-2010
13. Occupational health and safety training-2010
14. Database creation and maintenance and using Microsoft Excel and Access-2000
15. Defensive driving training and Valid G Driving License-2010
16. Boat safety and ATV trainings-2010

OTHER RELATED EXPERIENCES

1. Community garden volunteer, Ontario Ministry of Natural Resources, Thunder Bay, 2010
2. Community Organizer, Kitchener-Waterloo, Bangladesh Community, 2007-2009
3. Sport organizer, Kitchener-Waterloo Community Welfare Bangladesh, 2008-2013
4. Laurel Creek Cleaning Volunteer, 2008
5. Volunteer, Campus sustainability Committee, Wilfrid Laurier University, 2009
6. Winter Waterfowl Survey, Kaptai Lake, Bangladesh, 2000-2001

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