

# ALLAIN J. BARNETT

Institute of Water and Environment,  
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Citizenship: Canadian

## EDUCATION

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*School of Human Evolution and Social Change, Arizona State University, Tempe, AZ*  
**Ph.D. in Environmental Social Science** **2014**

Dissertation: From policy instruments to action arenas: Towards  
robust fisheries and adaptive fishing households in Southwest  
Nova Scotia

*Department of Biological Sciences, University of Quebec at Montreal, Montreal, Quebec*  
**M.Sc. in Aquatic Ecology** **2006**

Thesis: Biodiversity of crustacean zooplankton in lakes: The  
role of phytoplankton heterogeneity and functional diversity.

*Department of Integrative Biology, University of Guelph, Guelph, Ontario*  
**B.Sc. in Freshwater and Marine Biology** **2003**

## AWARDS AND FELLOWSHIPS

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Canadian Science Policy Fellowship, Mitacs, Declined (\$70,000) **2017**

Canadian Rural Revitalization Foundation Travel Grant,  
University of Prince Edward Island, (\$500) **2015**

College of Liberal Arts and Sciences Completion Fellowship,  
Arizona State University, (\$2,912) **2014**

Marine Research Coordination Network (SEES) Travel Award (\$3,000) **2014**

Graduate Professional Student Association Travel Grant,  
Arizona State University (\$550) **2013**

Graduate College Travel Grant, Arizona State University (\$350) **2013**

People's Choice Poster Award, Fishermen and Scientist Research  
Society, 20<sup>th</sup> annual meeting (\$250) **2013**

Judge's Choice Poster Award, Fishermen and Scientist Research  
Society, 20<sup>th</sup> annual meeting (\$250) **2013**

Graduate Professional Student Association Teaching Excellence  
Award, Arizona State University (\$500) **2012**

Excellence Grant, Foundation of the University of Quebec at Montreal (\$1,000)	<b>2006</b>
Department of Biological Sciences Grant, University of Quebec at Montreal (\$5,000)	<b>2006</b>

## TEACHING EXPERIENCE

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### Course Instructor Positions

Curriculum developer and instructor for course in Risk, Environment, and Culture (ANTH3014), Department of Anthropology, University of New Brunswick	<b>2017</b>
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### Teaching Assistantships

School of Human Evolution and Social Change, Arizona State University	
<b>ASB252 – Anthropology of Sports (Dr. Hjorleifur Jonsson)</b>	<b>2013</b>
<b>ASB344 – Technology and Society (Dr. Jameson Wetmore)</b>	<b>2010 - 2011</b>
<b>ASB252 – Global Health (Dr. Magdalena Hurtado)</b>	<b>2011</b>
<b>ASB252 – Social and Cultural Anthropology (Dr. James Eder)</b>	<b>2009 – 2010</b>

### Guest Lectures

SOS411 – Quantitative Methods in Conservation Biology. “Robustness analysis for social-ecological systems using qualitative and quantitative methods.”	<b>2013</b>
SOS591 – Applied Robustness Analysis. “Robustness analysis for social-ecological systems using qualitative and quantitative methods.”	<b>2013</b>
ASB344 – Technology of Society. “Plenty of fish in the sea: technology and sustainability in Atlantic Canada.”	<b>2013</b>
SOS411 – Decision-making and Collective Action for Sustainability “Property rights, livelihoods, and collective action in Southwest Nova Scotia.”	<b>2013</b>

### Involvement in Curriculum Development

Summer Course for Research Coordination Network for Marine Resources, Oregon State University	<b>2012 – 2014</b>
ASB344 – Technology and Society, Arizona State University	<b>2010 – 2011</b>

### Certifications

Diploma of University Teaching, College of Extended Learning University of New Brunswick, Fredericton	<b>2016</b>
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## ACADEMIC POSITIONS

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*Institute for Water and the Environment, School of International and Public Affairs, Florida International University*

**Post-Doctoral Fellow**

**September 2017 – Present**

- Department of Anthropology, University of New Brunswick*  
**Post-Doctoral Fellow** **September 2014 – August 2017**
- School of Human Evolution and Social Change, Arizona State University*  
**Post-Doctoral Fellow** **May 2014 – September 2014**
- School of Human Evolution and Social Change, Arizona State University*  
**Research Associate** **September 2009 – April 2014**
- Department of Biological Sciences, University of Quebec at Montreal*  
**Zooplankton Taxonomist** **October 2006 – February 2007**
- Department of Biological Sciences, University of Quebec at Montreal*  
**Field Research Assistant** **March 2006 – June 2006**
- Cliff Ecology Research Group, Department of Integrative Biology, University of Guelph*  
**Field Research Assistant** **May 2004 – November 2004**
- University of Guelph Herbarium, Department of Integrative Biology, University of Guelph*  
**Field Research Assistant** **September 2000 – July 2001**

## PUBLICATIONS AND PAPERS

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### Articles Published or Accepted in Refereed Journals

1. D. G. Curtis Maillet, M. G. Wiber, and **A. J. Barnett**. 2017. Knowledge actions in the joint production of knowledge: Risk assessment of the impact of aquaculture on American Lobster. *Journal of Risk Research*. In Press.
2. **Barnett, A. J.**, R. Messenger, and M.G. Wiber. 2016. Enacting and contesting neoliberalism: the tragedy of commodifying access rights in Atlantic Canadian Lobster Fisheries. *Marine Policy* 80: 60 – 68.
3. **Barnett, A. J.**, M.G. Wiber, M. Rooney, and D. Curtis. 2016. The role of Public Participation GIS and fishermen's perceptions of risk in marine debris mitigation in the Bay of Fundy, Canada. *Ocean and Coastal Management* 133: 85 – 94.
4. **Barnett, A. J.**, Baggio, J. A., H. C. Shin, D. Yu, I. Perez-Ibarra, C. Rubinos, U. Brady, E. Ratajczyk, N. Rollins, R. Aggarwal, J. M. Anderies, and M. A. Janssen. 2016. An iterative approach to case study analysis: qualitative analysis of quantitative inconsistencies. *International Journal of the Commons* 10(2): 467 - 494.
5. Baggio, J. A., **A. J. Barnett**, I. Perez-Ibarra, U. Brady, E. Ratajczyk, N. Rollins, C. Rubinos, H. C. Shin, D. Yu, R. Aggarwal, J. M. Anderies, and M. A. Janssen. 2016. The puzzle of governing the commons: an analysis of Ostrom's design principles. *International Journal of the Commons* 10(2): 417 - 439.
6. Ratajczyk, E., U. Brady, J. Baggio, **A. J. Barnett**, I. Perez-Ibarra, N. Rollins, C. Rubinos, H. C. Shin, D. J. Yu, R. Aggarwal, J. M. Anderies, and M. A. Janssen. 2016. Challenges and opportunities in coding the commons: problems, procedures, and potential solutions in large-N comparative case studies. *International Journal of the Commons* 10(2): 440 - 466.

7. **Barnett, A. J.**, and H. C. Eakin. 2015. “We and us, not I and me”: Justice, social capital, and vulnerability in a Nova Scotia fishery. *Applied Geography* 59: 107 – 116.
8. **Barnett, A. J.**, and J. M. Anderies. 2014. Weak feedbacks, governance mismatches, and the robustness of social-ecological systems: A comparative analysis of the Southwest Nova Scotia and Maine lobster fisheries. *Ecology and Society* 19(4): 39.
9. York, A. M., **A. Barnett**, A. Wutich, and B. Crona. 2011. Household bottled water consumption in Phoenix: A lifestyle choice. *Water International* 36: 708-718.
10. **Barnett, A.**, and B. E. Beisner. 2007. Biodiversity and lake trophic state: Explanations invoking resource abundance and distribution. *Ecology* 88: 1675 – 1686.
11. **Barnett, A. J.**, K. Finlay, and B. E. Beisner. 2013. Functional diversity of crustacean zooplankton communities: towards a trait-based classification. *Freshwater Biology* 52: 796–813.
12. Finlay, K., B. E. Beisner, and **A. J. Barnett**. 2007. The use of the Laser Optical Plankton Counter to measure zooplankton size, abundance, and biomass in small freshwater lakes. *Limnology and Oceanography Methods* 5: 41 – 49.
13. Beisner, B. E., P. R. Peres-Neto, E. S. Lindstrom, **A. Barnett**, And M. L. Longhi. 2006. The role of environmental and spatial processes in structuring lake communities from bacteria to fish. *Ecology* 87(12): 2985 – 2991.

#### **Submitted Manuscripts**

1. Rehn, A. C., A. J. Barnett, and M. G. Wiber. Stabilizing Risk Using Public Participatory GIS: A case study on mitigating marine debris in the Bay of Fundy, Southwest New Brunswick, Canada. Submitted to *Marine Policy*.
2. Barnett, A. J. and M. G. Wiber. Assembling Marine Space: lobster fishing areas under conditions of change in Atlantic Canada. Submitted to *Canadian Geographer*.
3. Barnett, A. J. and M. G. Wiber. What scientists say about the government “war on science”: closing down alternative modes of risk calculation in the marine environment. Submitted to *Science, Technology, and Human Values*.

#### **Book Chapters**

1. Barnett, A., R. Vogt., and F. Guillemette. 2013. Praise for lazy gardeners. In: Messier, C., L-A. Giraldeau, and B. E. Beisner (eds). *Nature all around us: A guide to urban ecology*. University of Chicago press, Chicago, Illinois.

#### **Oral Presentations**

- Barnett, A. 2017. Marine debris mitigation as a cosmopolitan governance challenge to the ocean commons. International Association for the Study of the Commons, July 9-14<sup>th</sup>, Utrecht, Netherlands.
- Barnett, A. 2017. Navigating tradeoffs in the commons by examining success through the lens of social dilemmas. International Association for the Study of the Commons, July 9-14<sup>th</sup>, Utrecht, Netherlands.
- Barnett, A. 2017. Politics and science in the risk society: scientists perceptions of the impact of politics. Canadian Anthropological Society, May 2-7, Ottawa, Canada.

- Barnett, A., and M. Wiber. 2017. Mapping fishermen's perceptions of the risks of marine debris in the Bay of Fundy. Fishermen and Scientist Research Society Conference, February 23<sup>rd</sup>, Dartmouth, Nova Scotia.
- Barnett, A. and M. Wiber. 2016. Assessing anthropogenic risk in the marine environment: How do we measure the impact of aquaculture on lobsters? Bay of Fundy Ecosystem Partnership. Fredericton, New Brunswick.
- Barnett, A. 2015. Research protocols for measuring lobster abundance around aquaculture sites. Atlantic Canada Fish Farmers Association Annual Meeting, St. Andrews, New Brunswick, Canada
- Barnett, A. 2015. Local innovation and initiative to strengthen owner-operator policy and build resilient and equitable fishing access rights. National Atlantic Forum, Building Community Resilience: Innovation, Culture, and Governance in Place, Summerside, Prince Edward Island, Canada.
- Barnett, A. 2015. Fitting what to what? Paying attention to arguments about scale in fisheries risk governance. Maritime Research Academic Conference: People and the Sea VIII, Geopolitics of the Oceans, Amsterdam, Netherlands.
- Barnett, A., and M. G. Wiber. 2015. The localities of the globalized commons: Theory, concepts and methods for understanding risk, uncertainty, and collective action. Conference for the International Association for the Study of the Commons, Edmonton, Alberta, Canada.
- Barnett A. 2015. Combining qualitative and quantitative methods to strengthen CPR case-analysis: examining counterfactuals. Conference for the International Association for the Study of the Commons, Edmonton, Alberta, Canada
- Barnett, A. 2014. Breaking down the resilience of conflict and distrust in a Nova Scotia multi-species fishery. Resilience Conference, Montpellier, France.
- Barnett, A. 2013. From policy instruments to action arenas: Rules and procedural justice under conditions of social-ecological change in the Southwest Nova Scotia lobster fishery. Biannual Meeting of the International Association for the Study of the Commons, Fujuyoshida, Japan.
- Barnett, A. 2013. Multi-scale sources of vulnerability of lobster fishing communities: The case of Southwest Nova Scotia, Canada. Annual Meeting of the Association of American Geographers. Los Angeles, California.
- Barnett, A. 2013. The relationship among regulations, fishermen, government, and fish: The case of the Southwest Nova Scotian lobster fishery. Fishermen and Scientist Research Society, Truro, Nova Scotia.
- Barnett, A. 2011. Market institutions and fishing communities: Trust agreements and their implications for the robustness of lobster fisheries in Atlantic Canada. Resilience Conference, Tempe, Arizona.

### **Poster Presentations**

- Barnett, A. J., R. A. Messenger, and M. G. Wiber. 2015. Contesting the concentration of access rights in Atlantic Canadian lobster fisheries. Canadian Fisheries Research Network Annual General Meeting, Halifax, Nova Scotia, Canada.
- Barnett A., M. Wiber, M. Rooney, and D. Curtis. 2015. Policy recommendations arising from marine debris tracking in the Bay of Fundy. University of New Brunswick Research Showcase, Fredericton, New Brunswick, Canada.
- Barnett, A., J. M. Anderies, and J. K. Abbott. 2014. Lobster prices, rules, and fairness: a mathematical modeling approach. Fishermen and Scientist Research Society, Truro, Nova Scotia.
- Barnett, A. 2013. Staying afloat: Vibrant inshore fishing communities in the face of economic and ecological change. Annual Meeting for the Fishermen and Scientist Research Society, Truro, Nova Scotia.
- Barnett A., E. Jensen, P. Terek., and A. M. York. 2009. Demographics, immigration and tap water perceptions in the Phoenix Metropolitan Area. CAP Long Term Ecological Research Symposium.
- Barnett A., and B. E. Beisner. 2006. Zooplankton diversity is maximized by increased spatial resource heterogeneity along a vertical gradient. Inaugural meeting of the Canadian Society for Ecology and Evolution, Montreal, Quebec.
- Barnett, A., M. L. Longhi, and B. E. Beisner. 2005. Factors influencing zooplankton diversity in the Eastern Township Lakes of Quebec. Annual Meeting of the Group for Inter-university Research in Limnology and Aquatic Environments, St. Michel Des Saints, Quebec.

### **Workshop Participation and Organization**

- Breaking the Code: Synthesizing Coding Efforts for Social-Ecological Systems. Socio-Environmental Synthesis Center, Annapolis, Maryland, July 5-8, 2016.
- Workshop on Sustainability and Common Pool Resources. Fredericton, New Brunswick, June 29, 2016. *Organizer.*
- Canadian/U.S. Lobstermen's Town Meeting. Saint John, New Brunswick. March 20-21, 2015.
- Canadian Fisheries Research Network Communications Training Workshop. Montreal, Quebec. March 10-12, 2015.
- Saint Andrews Biological Station Benthic Workshop. Saint Andrews, New Brunswick. October 29-30, 2014.
- Canadian Fisheries Research Network Methods/curriculum for inclusion of social, community and economic values of fisheries. Saint Andrews, New Brunswick, September 29 – October 2, 2014.
- Analyzing Qualitative Data Workshop. Arizona State University. Tempe, Arizona, may 6-10, 2013.

- Center for the Study of Institutional Diversity Workshop on Lab and Field Experiments on Social Ecological Systems. Tempe, Arizona. March 28-30, 2013.
- Research Coordination Network for Science, Engineering and Education for Sustainability in Marine Renewable Resources in Sub-Arctic Systems Under Incumbent Environmental Variability and Human Exploitation. Corvallis, Oregon. February 11-13, 2013, and February 27-29, 2012.
- Robustness in Irrigation Social-Ecological Systems: Synthetic Workshop. Tempe, Arizona. February 27-29, 2010.

#### **Public Policy Development**

- Invited speaker and participant at Fisheries Management Policy Workshop on Controlling Agreements. Halifax, Nova Scotia, December 10-12, 2016.

#### **Creative Accomplishments**

- Maintaining a Robust Fishery. 2014. Short film developed with *The Sustainability Review*.

## PROFESSIONAL SERVICE ACTIVITIES

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### **Manuscript Referee and Editorial Activities**

International Journal of the Commons

Ecological Economics

Ecology and Society

Hydrobiologia

Journal of Environmental Management

SAGE Open

Peer Review for the Oregon Sea Grant Resilience Research Program

Applied Geography

Human Ecology

Marine Policy

Environment and Planning A

Ocean and Coastal Management

### **University Service**

- Graduate Student Mentor, School of Human Evolution and Social Change, Arizona State University.
- Panellist at Orientations for Teaching and Graduate School, Graduate Professional Students Association. Arizona State University
- Volunteer Organizer for Resilience Conference, 2012, in Tempe, Arizona.

## MEMBERSHIPS

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Resilience Alliance

Association of American Geographers

International Association for the Study of the Commons

Fishermen and Scientist Research Society

Canadian Fisheries Research Network

Canadian Anthropology Society