

Steven M. Alexander

National Socio-Environmental Synthesis Center (SESYNC)

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Curriculum Vitae

Areas of Expertise

- Environmental Governance & Natural Resource Management
- Human Dimensions of Environmental Change
- Community-based Conservation & Livelihoods

EDUCATION

University of Waterloo, School of Environment, Resources, and Sustainability, Waterloo, ON

PhD, Social & Ecological Sustainability (2015)

Dissertation: *The Ties That Bind: Connections, patterns & possibilities for Marine Protected Areas*

Montana State University, Bozeman, MT

Master of Science in Science Education (2008)

Thesis: *Bridging Theory to Practice through Experiential Capstones in a Local Study Abroad Semester*

Teton Science Schools, Kelly, WY

Professional Residency in Environmental Education (2005)

St. Lawrence University, Canton, NY

Bachelor of Science, Geology (2003)

Honors: *cum laude*, Bradley R. Evers '94 Outstanding First-Year Student Award

St. Lawrence University Kenya Semester Program, Nairobi, Kenya (2002)

GRANTS AND FELLOWSHIPS

Postdoctoral Fellowship <i>National Socio-Environmental Synthesis Center</i>	2015
Postdoctoral Fellowship <i>Social Sciences and Humanities Research Council, Canada</i>	2015
Ontario Graduate Scholarship <i>Ontario Ministry of Training, Colleges, and Universities</i>	2014
President's Graduate Scholarship <i>University of Waterloo</i>	2014
SSHRC Doctoral Fellowship <i>Social Sciences and Humanities Research Council, Canada</i>	2013
President's Graduate Scholarship <i>University of Waterloo</i>	2013
IDRC Doctoral Research Award <i>International Development Research Centre</i>	2012
University Scholarship <i>St. Lawrence University</i>	1999

RESEARCH PROJECTS

- Governing social-ecological systems – Insights from a social-ecological network perspective (PI)** 2016 – Present
- National Socio-Environmental Synthesis Center/ National Science Foundation; Social Sciences and Humanities Research Council, Canada
- Navigating the Unforeseen: How Governance can Better Account for and Accommodate Surprise in Social-Ecological Systems (Co-PI)** 2014 – Present
- National Socio-Environmental Synthesis Center/ National Science Foundation
- Partnership for Canada-Caribbean Community Climate Change Adaptation** 2012 – 2016
- University of Waterloo, Waterloo, ON*
- Lead researcher, Governance Working Group
 - Funding: IDRC & Canada Tri-Council (SSHRC, NSERC, CIHR)
- The Ties That Bind: Connections, patterns, and possibilities for Marine Protected Areas (PI)** 2011 – 2015
- International Development Research Centre
- Global Islands' Vulnerability Research, Adaptation, Policy & Development Project** 2012 – 2015
- Lead researcher, multi-level coastal governance assessment
 - Funding: Climate & Development Knowledge Network

TEACHING EXPERIENCE

University of Waterloo

- Environmental Research Project/ Senior Honours (ERS 411) 2014, 2015
- Melissa Gerrard (Co-advisor)
- Coastal-marine change & governance in Jamaica: 2014, 2015
- Linking ecology, conservation & development (ERS 375)
- Environmental Thought (ERS 310) (Teaching Assistant) 2011

St. Lawrence University

- Citizenship and Sustainability (FRPG 188A) 2010, 2011
- Global Questions, Local Activism (FRPG 187I) 2010
- Cultivating Place: Bioregionalism and Community Engagement (ODST SPTP 147) 2007, 2008
- Regional Field Studies: 2007, 2010
- Geology & Volcanology of the Yellowstone-Snake River Plume Track (GEOL 320) (teaching assistant and field coordinator)
- Modern Outdoor Recreation Ethics (ODST 101) 2006

Wild Rockies Field Institute (*University of Montana*)

- Wild Rockies Summer Semester 2010, 2011
- Colorado Plateau: Desert Canyons and Culture 2008, 2009

PROFESSIONAL EXPERIENCE

- Affiliated Researcher (Environmental Change & Governance Group)** 2011 – Present
- University of Waterloo, Waterloo, ON*
- Research Coordinator (Sustainability and Social Justice Committee)** 2009 – 2010
- Antioch University New England, Keene, NH*
- Field Instructor** 2004 – 2009
- National Outdoor Leadership School, Lander, WY*

Assistant Director-Adirondack Semester
St. Lawrence University, Canton, NY

2006 – 2008

Residential Education Coordinator/ Faculty/ Field Instructor
Teton Science Schools, Jackson, WY

2004 – 2006

PUBLICATIONS

- Alexander, S.**, Andrachuk, M. & Armitage, D. (2016). Navigating governance networks for community-based conservation. *Frontiers in Ecology and the Environment*. (in press)
- Hind, E., **Alexander, S.**, et al. (2015). Fostering effective international collaboration for marine science in small island states. *Frontiers in Marine Science 2*: Article 18.
- Alexander, S.**, Armitage, D. & Charles, T. (2015). Social networks and community-based conservation: A comparative analysis of three co-managed marine reserves in Jamaica. *Global Environmental Change 35*: 213-225.
- Epstein, G., Pittman, J., **Alexander, S.**, et al. (2015). Institutional fit and the sustainability of social-ecological systems. *Current Opinion in Environmental Sustainability 14*: 34-40.
- Alexander, S.** & Armitage, D. (2015). A social relational network perspective for MPA science. *Conservation Letters 8*(1): 1-13.
- Pittman, J. Armitage, D., **Alexander, S.**, Campbell, D. & Alleyne, M. (2015). Governance fit for climate change in a Caribbean coastal-marine context. *Marine Policy 51*: 486-498.
- Armitage, D., **Alexander, S.**, Andrachuk, M. et al. (2015). Emerging concepts in adaptive management. In Allen, C. & Garmestani, A. (Eds). *Adaptive Management of Social-ecological Systems*. New York: Springer.
- Alexander, S.** (2014). Networks of marine protected areas – the contributions of a social relational network perspective. *Aquatic Conservation: Marine and Freshwater Ecosystems 24*(6): 739-741.
- Alexander, S.** & Johnson, B. (2013). The Adirondack Semester: An integrated approach to cultivating bioregional knowledge and consciousness. In Lockyer, J., & Veteto, J. (Eds), *Environmental Anthropology Engaging Ecotopia: Bioregionalism, Permaculture, and Ecovillages for a Sustainable Future*. New York, NY: Berghahn Books.
- Alexander, S.** (2012). Book Review: Emma Marris-Rambunctious Garden: Saving Nature in a Post-Wild World. *Green Book Reviews*. (Published online March 26, 2012)
- Alexander, S.** (2011). Book Review: Tackling Wicked Problems through the Transdisciplinary Imagination. *Journal of Environmental Studies and Sciences 1*(3), 262-264.
- Johnson, B. & **Alexander, S.** (2009). The St. Lawrence University Adirondack Semester. *Liberal Education*. 95 (3), 44-49.

MANUSCRIPTS IN REVIEW

- Armitage, D., **Alexander, S.**, Andrachuk, M., et al. Communities, multi-level networks and governance transformations in the coastal commons. In: Armitage, D., Charles, T., Berkes, F. (Eds.). *Governing the Coastal Commons: How Communities are building resilience and wellbeing to transform their future*. Earthscan/ Routledge (In review)

MANUSCRIPTS NEAR SUBMISSION

- Alexander, S.**, Armitage, D. & Carrington, P. Social connectivity in an emerging marine reserve network: Insights for improving governance and addressing issues of ‘fit.’
- Filbee-Dexter, K., Pittman, J., **Alexander, S.** et. al. Conceptualizing ecological surprise in social-ecological systems.

SYMPOSIUMS, WORKSHOPS & SPECIAL SESSIONS

- Symposium (Co-organizer): *Solving marine conservation problems using all available tools* 2016
4th International Marine Conservation Congress. St. John's, Newfoundland and Labrador.
- Symposium (Invited Participant): *Conservation and stewardship in small-scale fisheries: Practices and lessons from around the world* 2016
4th International Marine Conservation Congress. St. John's, Newfoundland and Labrador.
- Workshop Series (Invited Participant): *SESYNC Postdoctoral Immersion Program* 2015 – 2016
- Symposium (Co-organizer): *Network governance and large landscape conservation* 2015
27th International Congress for Conservation Biology. Montpellier, France.
- Roundtable Discussion (Organizer): *Interdisciplinary field courses: Challenges and opportunities for training in conservation science.* 2015
27th International Congress for Conservation Biology. Montpellier, France.
- Workshop (Invited Presenter): *MPAs as a potential management tool for responsible fisheries in the Caribbean.* 2014
FAO Side event at 67th Gulf & Caribbean Fisheries Institute. Christ Church, Barbados.
- Symposium (Co-organizer): *Foreign scientists in small island developing states: The challenges of performing relevant research, impacting policy and informing practice* 2014
3rd International Marine Conservation Congress. Glasgow, Scotland.
- Workshop (Co-organizer): *Cultivating a community of young scholars: Where to from here?* 2014
Resilience 2014 Resilience and Development: Mobilizing for Transformation. France.
- Special Session (Co-organizer): *Understanding collaboration in governance arrangements through network analysis I & II* 2014
Resilience 2014 Resilience and Development: Mobilizing for Transformation. France.
- Workshop (Invited Participant): *Socio-Environmental Synthesis Research Proposal Writing* 2014
SESYNC Workshop, Annapolis MD.
- Workshop (Co-organizer): *Social Media for Environmental Academics* 2013
Faculty of Environment, University of Waterloo, Waterloo, ON.
- Workshop (Invited Participant): *Education for Socio-environmental Synthesis* 2012
SESYNC Workshop, Annapolis MD.
- Symposium (Invited Presenter): *Historical and Global Perspectives on Provincial and Local/Regional Parks in Canada Symposium.* 2010
Univ. of Saskatchewan/ Network in Canadian History and Environment. Saskatchewan.
- Symposium (Invited Presenter): *Place-Based and Rural Education Summit* 2009
Jackson Hole, Wyoming.

PRESENTATIONS

- Alexander, S.**, Armitage, D., & Charles, A. 2016. Social networks and transitions to co-management in Jamaican marine reserves and small-scale fisheries. 4th International Marine Conservation Congress. St. John's, Newfoundland and Labrador.
- Alexander, S.** & Bodin, O. 2016. *Governing social-ecological systems – insights from a social-ecological network perspective.* International Society for Ecological Modeling Conference. Baltimore, MD.
- Alexander, S.**, et al. 2016. Mixed methods for modeling and analysis of coupled natural and social systems. International Society for Ecological Modeling Conference. Baltimore, MD.
- Alexander, S.**, Andrachuk, M. & Armitage, D. 2015. *Navigating governance networks for community-based conservation.* 27th International Congress for Conservation Biology. Montpellier, France.
- Alexander, S.** 2014. *A social relational network perspective for MPA science, policy and practice.* MPAs as a potential management tool for responsible fisheries in the Caribbean. Christ Church,

Barbados.

- Alexander, S.** & Armitage, D. 2014. *Social networks and community-based conservation: A comparative analysis of three co-managed marine reserves in Jamaica*. 2nd World Congress for Small Scale Fisheries. Merida, Mexico.
- Alexander, S.** et al. 2014. *Multilevel governance and climate change adaptation in Jamaica's coastal-marine environment*. The Caribbean Region: Adaptation and Resilience to Global Change. 6th BCGS International Seminar. Kingston, Jamaica.
- Alexander, S.** & Armitage, D. 2014. *Examining local level dynamics in an emerging network of co-managed marine reserves in Jamaica*. Resilience 2014 Resilience and Development: Mobilizing for Transformation. Montpellier, France.
- Alexander, S.** & Armitage, D. 2013. *Expanding the Network Perspective: Understanding Social Networks and the Implications for MPA Effectiveness*. 26th International Congress for Conservation Biology. July 22, 2013. Baltimore, Maryland.
- Alexander, S.** 2012. *Education for Socio-Environmental Synthesis: Insights from Transdisciplinary Doctoral Training*. SESYNC. June, 4, 2012. Annapolis, Maryland.
- Alexander, S.** 2010. *Shifting Landscapes and the Creation of Gatineau Park during the Great Depression*. Historical and Global Perspectives on Provincial and Local/Regional Parks in Canada Symposium. Saskatoon, Saskatchewan.
- Alexander, S.** 2009. *The Science of Snow: Place-Based Education in Practice*. Place-Based and Rural Education Summit. Jackson Hole, Wyoming.
- Alexander, S.** 2008. *Bridging Theory to Practice through Experiential Capstones in a Local Study Abroad Semester*. Symposium in Science Education. June 30th-July 4th, 2008. Montana State University, Bozeman, MT.

PUBLIC TALKS AND GUEST SEMINARS

University of Maryland, Guest Seminar for Socio-environmental Synthesis (MEES 708P) <i>Networks as a conceptual, theoretical, and analytical approach for facilitating socio-environmental synthesis</i>	2016
Duke University Marine Lab, Seminar Series <i>The ties that bind: Connections, patterns, and possibilities for marine protected areas</i>	2016
St. Lawrence University, Guest Seminar for Ecological Restoration (ENVS 367) <i>Restoration and Resilience of Degraded Coral Reef Fisheries</i> . Canton, NY.	2016
Faculty of Environment, University of Waterloo <i>Beyond the Ivory Towers: Lessons learned from a decade of interdisciplinary field courses</i>	2015
Dept. of Environment & Resource Studies Research Seminar Series, University of Waterloo <i>The Ties That Bind: Connections, patterns, and possibilities for Marine Protected Areas</i>	2015
St. Lawrence University, Guest Seminar for Ecological Restoration (ENVS 367) <i>Restoration and Resilience of Degraded Coral Reef Fisheries</i> . Canton, NY.	2014
University of Waterloo, Guest Seminar for Social Networks (SOC 760) <i>Social Network Analysis for Natural Resource Management</i> . Waterloo, ON.	2014
Algonquin College, Guest Seminar for Ecology and Biodiversity (ENV0006) <i>Human Dimensions of Biodiversity: Fish, Coral Reefs & MPAs</i> . Ottawa, ON.	2013
Faculty Café, St. Lawrence University <i>Shifting Landscapes and the Creation of Gatineau Park during the Great Depression: A Narrative of Class Conflict through Labor and Leisure</i> .	2011
St. Lawrence University, Richard F. Brush Art Gallery Exhibition Lecture <i>To Know Snow: A Sense of Wonder and the Science of Snow in an Age of Environmental Change</i>	2011

PROFESSIONAL SERVICE

Peer Reviewing

Aquatic Conservation: Marine and Freshwater Ecosystems (2); Ecology and Society (2), International

Journal of the Commons (3), Journal of Rural and Community Development, Fisheries, Marine Policy, Oryx

Committees

Resilience 2014 Resilience and Development: Mobilizing for Transformation. <i>Montpellier, France.</i>	2013 – 2014
• Co-chair – Student Organizing Committee	
Faculty of Environment Faculty Council, <i>University of Waterloo</i>	2011 – 2012
• Department of Environment and Resource Studies Graduate Student Representative	
ERS Wildlife Ecology – Tenure Track Position – Hiring Committee, <i>University of Waterloo</i>	2012
• Graduate Student Representative	
ERS 411 Senior Thesis Presentation Assessor, <i>University of Waterloo</i>	2011, 2012
Sustainability Semester Working Group, <i>St. Lawrence University</i>	2011
• Convened and invited by the Vice President and Dean of Academic Affairs	
North Country Folk Series Steering Committee, <i>St. Lawrence University</i>	2011
Assistant Director, Adirondack Semester - Hiring Committee, <i>St. Lawrence University</i>	2010

PROFESSIONAL MEMBERSHIP

International Network for Social Network Analysis	2013 – Present
Society for Conservation Biology	2012 – Present
• Social Science Working Group, Marine Section	
CHANS Net	2011 – Present
• International Network of Research on Coupled Human and Natural Systems	

SYNERGISTIC ACTIVITIES

Hidden Harvest , <i>Ottawa, ON</i>	2012 – Present
• Neighborhood Harvest Leader	
Just Food/ Community Gardening Network of Ottawa , <i>Ottawa, ON</i>	2012 – 2013
• Canning & Preservation Workshop Facilitator	
• Ad hoc advisory committee for a Community Canning Guide	