

Shannon H. Rogers, PhD

Nature Based Economic Development Specialist & Associate Professor

Cooperative Extension
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EDUCATION

PhD in Natural Resources & Environmental Studies Minor in College Teaching University of New Hampshire, Durham, NH Dissertation: <i>Examining the Relationship Between Social Capital and the Built Environment: A Case Study in Measuring Community Sustainability</i>	2011
MS in Resource Administration & Management University of New Hampshire, Durham, NH	2007
AB Environmental Studies with honors, <i>cum laude</i> , Dartmouth College, Hanover, NH	2004
<i>Professional Certificate in Sustainability Leadership, Ithaca College</i>	2012

PROFESSIONAL EXPERIENCE

State Specialist Cooperative Extension, University of New Hampshire	2017-present
Adjunct Assistant Professor of Environmental Studies, Dartmouth College	2016-present
Assistant Professor & Ecological Economist- Joint Appointment Department of Environmental Science & Policy and Center for the Environment, Plymouth State University, Plymouth, NH	2012-2017
Postdoctoral Research Associate, U.S. Army Corps of Engineers Institute for Water Resources & the University of New Hampshire's Environmental Research Group	2011-2012
Adjunct Environmental Science Faculty, York County Community College, Wells, ME	2010-2011
Research Assistant, Carsey Institute, University of New Hampshire (UNH)	2008-2010
Sustainability Intern, City of Portsmouth, NH	2008-2009
Graduate Research Assistant/Teaching Assistant UNH Departments of Resource Economics, Environmental Engineering, Natural Resources, Biology	2005-2009
Research Analyst, Industrial Economics, Inc. Cambridge, MA	2004-2005
Undergraduate Advisor, Dartmouth College, Hanover, NH	2001-2004

HONORS AND AWARDS

Nominated for Helen Abbott '39 Professorship in Environmental Studies, Plymouth State University (nomination currently under review)	2016
Senior Fellow, Environmental Leadership Program	2012
U.S. Environmental Protection Agency Science to Achieve Results Fellowship (\$120,000)	2008-2011
University of New Hampshire Sustainable Science & Engineering Fellowship (\$40,000)	2007-2008
University of New Hampshire Graduate School Research/Creativity/Scholarship Award	2007
Master's Thesis Award of Merit from the Northeastern Agricultural & Resource Economics Association (\$500)	2007
New Hampshire Water Resources Research Center Fellowship (\$23,000)	2006-2007
University of New Hampshire Summer Teaching Fellowship (\$3,000)	2006
Dartmouth College Outstanding Service as a returning student staff member-Office of Residential Life Residential Education (Mary Turco Award)	2004
Presidential Scholar, Dartmouth College	2003-2004
Co-Captain Dartmouth College Division I Women's Golf Team	2002-2004
Academic All-Ivy	2002, 2003
Dartmouth Partners in Community Service Fellowship (\$3,500)	2001

RESEARCH IN THE NEWS

derStandard.at, German Media outlet:

<http://derstandard.at/1291454629474/Eine-erlaubbare-Umgebung-steigert-das-Sozialkapital>

New England Sustainability Consortium Media Release:

<https://www.plymouth.edu/center-for-the-environment/4507/new-england-surfers-care-about-water-quality-according-to-preliminary-survey-data/>

NH EPSCoR (invited contribution):

<http://nhepscor.org/HubbardBrookREU>

Piscataqua Region Estuaries Partnership:

<http://preestuaries.org/people-what-are-they-thinking/>

Saguaro Seminar @ Harvard:

<https://socialcapital.wordpress.com/category/shannon-rogers/>

Science Daily:

<http://www.sciencedaily.com/releases/2010/12/101207092429.htm>

U.S. News:

<http://www.usnews.com/science/articles/2010/12/16/walkable-neighborhoods-richer-in-social-capital>

Plymouth State Magazine article:

Selected Plymouth State University Press Releases:

<https://www.plymouth.edu/center-for-the-environment/2588/shannon-rogers-attends-living-on-earth-iii-workshop/> <https://www.plymouth.edu/center-for-the-environment/4146/shannon-rogers-working-with-noaa-coastal-management-fellowship/>

<https://www.plymouth.edu/center-for-the-environment/3636/nh-resident's-use-value-of-water/>

TEACHING EXPERIENCE

G=Graduate Level, UG=Undergraduate, B=both

Plymouth State University, Plymouth, NH

Decision Making in Natural Resource Management (Primary Instructor, G)
Ecological Economics (Primary Instructor, B)
Environmental Ethics (Primary Instructor, G)
Environmental Law, Policy, & Management (Primary Instructor, G)
Foundations of Environmental Policy (Co-instructor, UG)

University of New Hampshire Durham, NH

Sustainable Science & Engineering for Development Practice (co-instructor, G)
Introduction to Sustainable Engineering (TA & social aspects module leader, B)
How to Change the World-A Natural Resources Course on Collaborative Research (UG, Collaborative developer and instructor).
Biostatistics (UG, Recitation Leader and Teaching Assistant)
Ecology (UG, Co-Lab Instructor and Teaching Assistant)

York County Community College Wells, ME and Satellite Campus at Portsmouth Naval Shipyard, Kittery, ME

Environmental Science (Primary Instructor)

GRADUATE STUDENTS (*graduated)

*Berg, Chelsea	<i>Evaluating the Ecosystem Service of Nitrogen Removal in the Great Bay Watershed</i>
Burford, Klancey	<i>Comparing Methods for Preference Elicitation in Deliberative Methods</i>
*Cummings, Matthew	<i>Evaluating Sustainability Practices at U.S. Army Corps of Engineers</i>
*Greenough, Carolyn	<i>A Policy Analysis of Viewsheds</i>
*Melendez, Kristen	<i>Preferences for Stormwater Management at New Boston US Air Force Base</i>
El-naboulsi, Noah	<i>Spatial Differences in Water Quality Values in the Great Bay Watershed</i>
*Loos, Jonathon	<i>Understanding Stakeholder Preferences for Flood Adaptation</i>
*Scott, Sophia	<i>Surfers & Water Quality: Understanding Local Ecological Knowledge, Risk and Decision Making in the Gulf Maine</i>

UNDERGRADUATE STUDENTS:

Mentor to 4 undergraduate research assistants involved in my research and 4 students in the National Science Foundation's Research Experience for Undergraduates (REU) program. Students have been from the University of New Hampshire, Plymouth State University, Tennessee State University and St. Olaf College

PUBLICATIONS

REFEREED ARTICLES (*Graduate student in Rogers' Group; **Undergraduate student in Rogers' Group)

- In Prep** Scott, S* & **Rogers, SH**. Surfers & Water Quality: Understanding Local Ecological Knowledge and Decision Making.
- Rogers, SH**, Tyler, A**, Boyer, J., Buso, D, & Likens, G. The Value of Mirror Lake: Using the Concept of Ecosystem Services and Undergraduate Research Experiences to Understand Social Aspects of a 50-year old Ecosystem Study
- Revisions** Scott, S* & **Rogers, SH**. Surf's Up? How does water quality risk impact surfer decisions? *Ocean and Coastal Management*
- 2016** Berg, C*, **Rogers, SH**, & Mineau, M. Evaluating the Ecosystem Service of Nutrient Removal in a Coastal Watershed: A Case Study of New Hampshire's Great Bay. *Ecosystem Services*
- Loos, J* & **Rogers, SH**. Understanding stakeholder preferences for flood mitigation and adaptation alternatives with implications for ecosystem services. *Ecology & Society*
- 2015** Berg, C*, **Rogers, SH**, Mineau, M.,. Building Scenarios for Ecosystem Services Tools: Developing a Methodology for Efficient Engagement with Expert Stakeholders. *Futures*
- Carlson, C.; Aytur, S.; Gardner, K.; **Rogers, SH**. The Importance of the "Local" in Walkability. *Buildings* 5, 1187-1206
- 2014** **Rogers, SH**.; Gardner, Kevin H.; and Carlson, Cynthia H., "Walking builds community cohesion: Survey of two New Hampshire communities looks at social capital and walkability." The Carsey Institute at the University of New Hampshire Scholars' Repository. Paper 209. <http://scholars.unh.edu/carsey/209>
- 2013** **Rogers SH**, Gardner KH, Carlson CH. Social Capital and Walkability as Social Aspects of Sustainability. *Sustainability*. 5(8):3473-3483 (part of Special Issue: Measuring Socio-Economic Well-Being)
- 2012** **Rogers, SH.**, Halstead, J., Seager, TP. Characterization of public and stakeholder objectives in environmental management: A case study of New Hampshire's Lamprey River. *Journal of Water Resources Planning and Management*.
- Rogers, SH.** Aytur, S., Gardner, KH. Carlson, CH. Measuring community sustainability: exploring the intersection of the built environment & social capital with a participatory case study 2012 *Journal of Environmental Studies & Sciences*. Published online first. DOI: 10.1007/s13412-012-0068-x.
- Carlson, CH., Aytur, S., Gardner, KH., **Rogers, SH**. Complexity in Built Environment, Health, and Destination Walking: A Neighborhood-Scale Analysis. *Journal of Urban Health*. DOI: 10.1007/s11524-011- 9652-8

Rogers, SH, Halstead J, Gardner, KH, Carlson, CH. Walkability and Social Capital as Indicators of Quality of Life at the Municipal and Neighborhood Scales. *Journal of Applied Research in Quality of Life*. DOI: 10.1007/s11482-010-9132-4

2006 Linkov I, Satterstrom FK, Kiker G, Seager TP, Bridges T, Gardner KH, **Rogers SH**, Belluck DA, Meyer A. Multi-criteria decision analysis: A comprehensive decision approach for management of contaminated sediments. *Risk Analysis: An International Journal*. Issue 1, 61-78.

REPORTS, BOOK CHAPTERS, AND POPULAR ARTICLES

2015 Berg, C*, Ellis, C, Gucwa, C, Melendez, K, Mooney, C, Loos, J*, & Scott, S* Informing Community Relevant Research in the Northern Forest. Eds. **Rogers, SH** & Garlick, S. A Hubbard Brook White Paper. The Hubbard Brook Research Foundation

Rogers, SH., Watts, Kirshen, P & Gardner, KH. "Evaluating Basin Scale Climate Change Adaptation & Mitigation Strategies." Final Report for U.S. Army Corps IPA 11-0010

Rogers, SH. & Jarema, P. "A Brief History of Social Capital Research" in "*Social Capital at the Community Level-An Applied Interdisciplinary Perspective*," eds. John Halstead and Steven Deller, Routledge

Rogers, SH. & Gardner, KH. "Measuring Social Capital at the Neighborhood Scale through a Community Based Framework" in "*Social Capital at the Community Level-An Applied Interdisciplinary Perspective*," eds John Halstead and Steven Deller, Routledge

2014 **Rogers, SH.**, Farrell, J., Loos, J*, Berg, C*, New Hampshire's citizens value and use water in many ways: a preliminary report of the New Hampshire Water and Watershed Survey – statewide perspectives with an oversample in the Piscataqua Region watershed (Preliminary Report). Plymouth State University and Piscataqua Region Estuaries Partnership, Plymouth, NH. Associated Interactive Data Set: <http://ddc-nhwws.sr.unh.edu/map/>

2009 Dillon, M. and **Rogers, SH.**, "New Hampshire civic health index." The Carsey School of Public Policy at the University of New Hampshire Scholars' Repository. Paper 83. <http://scholars.unh.edu/carsey/83>

2006 Seager, TP, **Rogers SH**, Gardner, KH, Linkov, I, Howarth, R. Coupling Public Participation and Expert Judgment for Assessment of Innovative Contaminated Sediment Technologies. In *Environmental Security and Environmental Management: The Role of Risk Assessment*. 2006 Edited by Morel B, Linkov I. Springer, Amsterdam.

2004 **Rogers SH**, Seager TP, Gardner, KH. Combining expert judgment and stakeholder values with PROMETHEE: A case study in contaminated sediments management. In *Comparative Risk Assessment and Environmental Decision-Making*. 2004. edited by I Linkov. Kluwer Academic Press: Boston MA

RESEARCH GRANT SUPPORT

Awarded

"Assessing the contribution of small streams to use and non-use water quality values using modeling, stakeholder participation, and decision theory." Source of Support: U.S. EPA
Total Award Amount to Co-I Rogers \$103,361 Award period to cover 2016-2019

"The Social Indicator Project: Integrating social science into ecosystem management for New Hampshire's estuaries" NOAA Coastal Management Fellow for New Hampshire, Rogers Co-author and Steering Committee member. Total project: \$60,000 2015-2017

"Ecosystems & Society." Co-I on Subaward to Plymouth State from National Science Foundation through NHEPSCoR Track I Total Funding to Rogers \$274,114 2013-2016

"New England Sustainability Consortium- Safe Beaches & Shellfish" PI on Subaward to Plymouth State from National Science Foundation through NHEPSCoR for Track II Total award \$214,252 7/1/13-6/30/16

"Evaluating Basin-Scale Climate Change Mitigation and Adaptation Strategies for USACE. US Army Corps of Engineers Contract. Total IPA contract awarded to Rogers \$122,596 2011-2014

"Socio-economic research experience for undergrads at Hubbard Brook." Subaward to Rogers through NHEPSCoR \$10,900 2013

***Nearly \$200,000 in Fellowships to support undergraduate and graduate research and study.
Fellowships noted in award section***

SELECTED CONFERENCE PRESENTATIONS, POSTERS, & INVITED LECTURES

"Nature Based Economic Development and the Nature Economy." Invited presentation to Leadership NH Conference. October 2017. Kensington, NH.

"Exploring approaches to assessing natural capital's role in environmental decision making - Insights from stakeholder engaged case studies in New England." Invited poster presentation at National NSF EPSCoR conference. November 2015. Portsmouth, NH.

"How New Hampshire Citizens use and value water." Invited presentation to Nature Conservancy New Hampshire Board of Directors, Concord, NH, April 2015

"Integrating bottom up knowledge into a top down organization: A Story of Sustainability at the U.S. Army Corps of Engineers." Plymouth State University Center for the Environment Colloquium Series. November 2015

"Water Quality & Risk: Examining Surfer's Perceptions of Safe Beaches in Maine and New Hampshire" as part of a session with Sophia Scott* and colleagues from Maine and NH in the New England Sustainability Consortium (NEST). Maine Beaches Conference July 17, 2015. South Portland, ME.

"Assessing Local Values & Engaging Scholarship in the Hubbard Brook Valley & Pemigewasset Watershed." Annual Hubbard Brook Cooperator's Meeting July 8, 2015. North Woodstock, NH. with Carly Ellis*

Invited panel participation on Newfound Business Summit, Bristol, NH April 2015

"Evaluating the ecosystem of nutrient removal in a Coastal Watershed: A Case Study of New Hampshire's Great Bay" with Chelsea Berg* Presented at:

ACES (A Community of Ecosystem Services) Conference, Washington, D.C. December 2014
New England Association of Environmental Biologists & NH Water & Watersheds Conference, Bartlett, NH, March 2015

"Understanding stakeholder preferences for flood mitigation and adaptation alternatives with implications for ecosystem services" with Jonathon Loos*, Presented at:

Local Solutions: Northeast Climate Change Preparedness Conference Manchester, NH May 2014

ACES (A Community of Ecosystem Services) Conference, Washington, D.C. December 2014
New England Association of Environmental Biologists & NH Water & Watersheds Conference, Bartlett, NH, March 2015

"Evaluating & Valuing Watershed Ecosystem Services in New Hampshire-Using Social Science Data to Inform Management." NH EPSCoR Summer Teachers Institute, August 2014 Plymouth State University

"How to Change the World (or at least make an impact!) Student Research, Service Learning, and Community Engagement Opportunities in Ecological Economics." Session organizer and co-chair. United States Society of Ecological Economics Conference. University of Vermont. June 2013

"Combining Operator & Expert Knowledge for Climate & Global Change Decision Making: an application of integrated missions sustainability at the U.S. Army Corps of Engineers." International Symposium on Sustainable Systems and Technologies. May 2012. Boston, MA. with co-authors Kevin Gardner, Jeff Arnold, & Kathleen White.

"Social Capital and Walkability: Measureable Components of a Sustainable Community?" Association for Environmental Studies and Science Conference. June 2011. Burlington, VT.

"Walkability, Neighborhood Design, and Social Capital: Implications for Resilience and Quality of Life." Southern Regional Science Association. March 2011. New Orleans, LA. With co-author John Halstead

Invited speaker. Session on Community Based Participatory Research. EPA STAR Graduate Fellowship Conference. September 2009. Washington, DC.

"Neighborhood watch: Working together to measure sustainability at the local scale." 15th International Symposium on Society and Resource Management Meet old and new worlds in Research, Planning, and Management, Vienna, Austria. July 2009. With co-authors Kevin Gardner and Cynthia Carlson

PROFESSIONAL ASSOCIATION MEMBERSHIP AND PARTICIPATION:

International Society for Ecological Economics
United States Society for Ecological Economics
Association for Environmental Studies & Sciences

OTHER PROFESSIONAL ACTIVITY/SERVICE:

Dartmouth College Alumni Interviewer (ongoing)
NH Environmental Public Health Tracking Network-technical advisory group member (2015-present)
Academic mentor for J. Loos ('15) during his two-year fellowship at American Rivers (2015-present)

Member of the New Hampshire Estuary Spatial Planning Project Advisory Committee (2013-2015)
Mentor for Hubbard Brook Research Experience for Undergraduates (REU) 2013, 2015
Technical reviewer Trust for Public Land report "New Hampshire's Return on Investment in Conservation" 2014.
Proposal reviewer for NOAA

Reviewer for the following journals:

Society & Natural Resources

Ecological Economics

Integrated Environmental Assessment

Journal of Environmental Studies & Sciences

Ecosystem Services

PROFESSIONAL DEVELOPMENT ACTIVITIES

Ongoing Senior Fellow activities for the Environmental Leadership Program;

Reverse site visit for the current EPSCoR Track I presentation given to a panel at the National Science Foundation in Washington, DC. September 2014. *Only junior level faculty member asked to attend and present;*

Participation in the National EPSCoR Social-Ecological Workshop at University of Virgin Islands, St. Thomas. October 2012. *One of three scholars selected to represent NH.*

DEPARTMENT/COLLEGE SERVICE AT PLYMOUTH STATE

Member of the Internal Review Board (2016-present)

Faculty advisor for Plymouth Social Venture Innovation Challenge Team (2015)

Department Liaison for Marketing & Communication (2015-present)

Environmental Science and Policy Student Travel and Research Awards Committee (2015-present)

University Athletic Council (2015-present)

Masters in Environmental Science & Policy Curriculum committee (2013-present)

Water Conference Planning Committee (2012-present)

OUTREACH

Plymouth Area Science Café Coordinator & NH Science Cafe Coalition Member

Engaged scholarship through NH EPSCoR & New England Sustainability Consortium