

ERIN STEWART LINDQUIST

Assistant Professor, Department of Biological Sciences, Meredith College
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RESEARCH INTERESTS

Community ecology, forest ecology, land crab and small mammal ecology, plant taxonomy

TEACHING INTERESTS

Ecology, conservation biology, community ecology, tropical ecosystems, terrestrial field studies, experimental design

EDUCATION

Doctor of Philosophy, Institute of Ecology, University of Georgia, Athens, GA, 2003

Dissertation: *Patterns of Coastal Forest Composition, Structure, and Recruitment, Costa Rica: Functions of an environmental gradient, seed rain distribution, and crab predation pressure.*

Dissertation advisors: C. Ronald Carroll and Diana Lieberman

Bachelor of Science, Division of Biological Sciences, Cornell University, Ithaca, NY, 1997

Graduated with Distinction, *Summa cum laude*

Honors thesis: Field Identification and Population Genetics of *Peromyscus leucopus noveboracensis* and *P. maniculatus gracilis* in Central New York.

Thesis advisors: Charles Aquadro and Deedra McClearn

School for Field Studies, Kenya, Africa. Wildlife Ecology and Management, Spring 1996.

EXPERIENCE

Assistant Professor. 2006-present. Department of Biological Sciences, Meredith College, Raleigh, NC

- General Biology I for majors and non-majors (Bio 101)
- General Biology II for majors: Diversity, Ecology, and Evolution lecture (Bio 102) and laboratory (Bio 142)
- Modern Biological Concepts [introductory biology for non-majors] (Bio 105)
- Plant Biology lecture and laboratory (Bio 211 and 241)
- Environmental Science for majors (Bio 325) and non-majors (Bio 225)
- Research Methods Seminar for Biology Majors (Bio 299, 498, 499)
- Terrestrial Field Studies (Bio 359)
- Tropical Ecosystems in Costa Rica Study Abroad Course (Bio 215)
- First Year Experience Seminar (FYE 100)

Resident Professor, Course Coordinator, and Adjunct Assistant Professor. 2003-2006. Organization for Tropical Studies, Costa Rica and Department of Biology, Duke University, Durham, NC

- Fundamentals of Tropical Biology (graduate course)
- Fundamentals of Tropical Biology (undergraduate course)
- Environmental Science and Policy in the Tropics (undergraduate course)
- Field Research in Tropical Biology (undergraduate course)

Invited Resource Person. 1999-2003. Organization for Tropical Studies, Costa Rica

- Fundamentals of Tropical Biology (graduate course)

Faculty Member (2001-2002), **Campus Course Coordinator** (2000-2002), and **Teaching Assistant** (1999-2000).
University of Georgia, Athens, GA

- Ecological Methods (ECOL 3510)
- Tropical Ecology Research (ECOL 4960)

Lead Laboratory Teaching Assistant (1999-2000) and **Teaching Assistant** (1998). University of Georgia, Athens, GA

- Ecological Basis of Environmental Issues (ECOL 1000)

Resident Naturalist. 1997-1998. Ecodge San Luis and Biological Station, Monteverde, Costa Rica

Teaching Assistant. 1997. Cornell University

- Introduction to Biology for Majors (BIO 105)

TEACHING AND FACULTY AWARDS

Harry and Marion Eberly Faculty Development Award, Meredith College, April 2009

Outstanding Faculty Award, Honors Program, Meredith College, April 2008

Excellence in Teaching Award, Graduate School, University of Georgia, February 2003

Outstanding Teaching Assistant Award, University of Georgia, February 2001

Distinguished Teaching Assistant Award, Institute of Ecology, University of Georgia, April 2000

RESEARCH GRANTS, SCHOLARSHIPS, AND AWARDS

Research and Publication Initiative Stipend Award, Meredith College, April 2007

Cooperative Foundation between Costa Rica and the USA (CRUSA) Grant, 2002-05

University-Wide Dissertation Completion Scholarship, University of Georgia, 2002-03

National Science Foundation (NSF) Dissertation Improvement Grant, 2001-03

University of Georgia Women's Club Dianne C. Davison Scholarship, 2001

Graduate School Research Travel Award, University of Georgia, 2000

Sigma Xi Grants-in-Aid of Research Award, 2000

Dean Lindholm Travel Award, Institute of Ecology, 2000

Robert A. Sheldon Memorial Award, Institute of Ecology, 1999

Center of Latin American and Caribbean Studies Travel Award, University of Georgia, 1999

Honorable Mention, NSF Graduate Fellowships, 1999

RESEARCH GRANTS AND AWARDS GRANTED TO STUDENT MENTEES

Roxie Collie Laybourne Endowment Fund and Undergraduate Research Grant, J. Stancil, Meredith College April 2009

Applied Ecology Section Student Travel Award, A. Powell, Ecological Society of America (ESA), 2008

Undergraduate Summer Research Stipend and Research Grant, A. Simmons, Meredith College, May 2008

Undergraduate Research Grant, S. Roberson, Meredith College, February 2008

Undergraduate Research Grant, A. Powell, Meredith College, October 2007

Undergraduate Summer Research Stipend and Research Grant, C. Jones, Meredith College, May 2007 and 2008

BOOKS * denotes undergraduate author

Camacho-Céspedes, F.*, **E.S. Lindquist**, and G. Knight* (illus). 2007. *Common Trees of Cabo Blanco Absolute Nature Reserve, Costa Rica*. National Institute of Biodiversity (INBio), Heredia, Costa Rica, 376 pp.

PUBLICATIONS

Lindquist, E.S., Krauss, K.W., Green, P.T., O'Dowd D.J., Sherman, P.M., and T.J. Smith. 2009. Land crabs as key drivers in tropical coastal forest recruitment. *Biological Reviews* 84(2):203-223.

Lindquist, E.S., and C.R. Carroll. 2004. Differential seed and seedling predation by crabs: impacts on tropical coastal forest composition. *Oecologia* 141(4):661-671.

Lindquist, E.S., Aquadro, C.F., McClearn D.K., and K.J. McGowan. 2003. Field identification of *Peromyscus leucopus noveboracensis* and *P. maniculatus gracilis* in central New York. *Canadian Field-Naturalist* 117(2): 184-189, 118(1): 157 (erratum).

Lindquist, E.S. 2003. *Patterns of Coastal Forest Composition, Structure, and Recruitment, Costa Rica: Functions of an environmental gradient, seed rain distribution, and crab predation pressure.* PhD Dissertation. University of Georgia, Athens, GA.

PAPERS IN PREPARATION * denotes undergraduate author

Jones, C.*, and **E.S. Lindquist.** Distribution of *Peromyscus leucopus* relative to woody debris abundance in an urban, fragmented forest. To be submitted to *Southeastern Naturalist*.

Lindquist, E.S. Composition of a seasonally dry tropical forest along a coastal gradient, Costa Rica. To be submitted to *Forest Ecology and Management*.

Lindquist, E.S. Spatial and seasonal variation in seed rain composition in a coastal forest, Costa Rica. To be submitted to *Journal of Tropical Ecology*.

Powell, A.*, and **E.S. Lindquist.** Effects of routine disturbance on forest structure and composition along the edge of an urban forest in Raleigh, NC. To be submitted to *Southeastern Naturalist*.

PRESENTATIONS AND POSTERS * denotes undergraduate author

Lindquist, E.S., Powell, A.*, Jones, C.*, Roberson, S.*, Simmons, A*, and J. Stancil*. 2009. Permanent study plots on college campuses: establishing a research coordination network across ecosystems and undergraduate institutions. Annual Meeting, North Carolina Academy of Sciences, Warren Wilson College, NC.

Roberson, S.*, and **E.S. Lindquist.** 2009. The effects of forest fragmentation on ectoparasite loads of small mammals on the Meredith College campus. Annual Meeting, Association of Southeastern Biologists (ASB) and Tri-Beta (βββ), Birmingham, AL.

Simmons, A., and **E.S. Lindquist.** 2009. Relationships between insect herbivory, fungal pathogens, and edge effects in Red Maple (*Acer rubrum*) in a fragmented, urban forest. Annual Meeting, North Carolina Academy of Sciences, Warren Wilson College, NC.

Jones, C.*, and **E.S. Lindquist.** 2008. Utilization of woody debris by *Peromyscus leucopus*. Mid-Atlantic Regional Conference of Undergraduate Scholarship (MARCUS), Sweet Briar College, VA.

Jones, C.*, and **E.S. Lindquist.** 2008. Utilization of woody debris by *Peromyscus leucopus*. Annual Meeting, North Carolina Honors Association Conference, Raleigh, NC

Lindquist, E.S., Powell, A.*, Jones, C.*, Roberson, S.*, Carr, B.*, and A. Simmons*. 2008. Urban forests on college campuses: Opportunities for undergraduate research. Annual Meeting, Ecological Society of America. Milwaukee, WI.

Powell, A.*, and **E.S. Lindquist.** 2008. Effects of routine disturbance on forest structure and composition along the edge of a forest on the Meredith College campus, Raleigh, NC. Annual Meeting, Ecological Society of America. Milwaukee, WI.

Roberson, S.*, and **E.S. Lindquist.** 2008. The effects of forest fragmentation on ectoparasite loads of small mammals on the Meredith College campus. Annual Meeting, North Carolina Honors Association Conference, Raleigh, NC.

Lindquist, E.S., and K. Krauss. 2006. Getting the crab walk straight: crabs as ecological filters in coastal and freshwater ecosystems. Annual International Meeting, American Society of Limnology and Oceanography, Victoria, BC.

Lindquist, E.S. 2004. Coastal forest composition relative to an environmental gradient, seed rain distribution, and land crab densities. Annual Meeting, Association for Tropical Biology and Conservation, Miami, FL.

Lindquist, E.S. 2002. Relative effects of seed and seedling predation by crabs on tropical coastal forest composition and structure. Annual Meetings, Ecological Society of America, Tucson, AZ and Association for Tropical Biology and Conservation Meetings, Panama.

Lindquist, E.S. 2000. Seedling establishment in a tropical maritime forest: the relative role of crab herbivory on seedling growth and survival. Annual Meeting, Ecological Society of America, Snowbird, UT.

ORGANIZED CONFERENCE SESSIONS

Cuffney, F., **Lindquist, E.S.**, Jones, C.*, and J. Strickland*. 2008. Science as Method: Engaging undergraduate students through research. Engaging Science, Advancing Learning: General Education, Majors, and the New Global Century Workshop Conference. Association for American Colleges and Universities, Providence, RI.

Lindquist, E.S., Krauss, K., Fraiola, F., Gutierrez, J., Sherman, P., and W. Sousa. 2006. Crabs as Ecological Filters Across Aquatic-Terrestrial Gradients in Marine and Freshwater Ecosystems. Topical organized session, American Society of Limnology and Oceanography (ASLO) Summer Meetings, Victoria, BC.

INVITED SEMINARS AND LECTURES

Lindquist, E.S., 2008. Applications of Population Biology. Departments of Biology and Environmental Studies, Warren Wilson College, Asheville, NC.

Lindquist, E.S., 2007. Regeneración Natural del Bosque Secundario de Cabo Blanco (in Spanish). Center for Tropical Science and the National System of Conservation Areas, Costa Rica.

Lindquist, E.S., 2006. Human Impacts on the Global Carbon Cycle, Department of Biology, Elon University, Elon, NC.

Lindquist, E.S., 2006. Human Impacts on the Global Carbon Cycle, Department of Biology and Health Sciences, Meredith College, Raleigh, NC.

Lindquist, E.S., 2004. Crabs as Ecological Filters in Tropical Coastal Ecosystems. Department of Ecology and Evolutionary Biology, University of Colorado at Boulder, Boulder, CO.

PROFESSIONAL PEER REVIEWER

Florida Sea Grant
 Forest Ecology and Management
 Journal of Applied Vegetation Science
 Life Science Education
 Oecologia
 Southeastern Naturalist

PROFESSIONAL SERVICE, RECOGNITION, AND MEMBERSHIP

Co-Director for the Collegiate Academy of the North Carolina Academy of Science (CANCAS), 2009-present

Sigma Xi, Full Member of the North Carolina State University Chapter, April 2009-present

Co-Founder and Administrator of the Duke University-Meredith College Mentored Research Program, November 2008-present

Ecological Society of America, Researchers at Undergraduate Institutions section, 2000-present

Program Consultant, Center for Women in Science and Math, Meredith College, May-August 2008

Who's Who among American Universities, 2003, 2008

Blue Key International Honor Society, University of Georgia, 2002

Phi Beta Delta Honor Society for International Scholars, University of Georgia, 2002

CAMPUS LEADERSHIP AND SERVICE

Wallace Lecture Series Committee, Meredith College, 2009-present
 Quality Enhancement Plan (QEP) Committee, Meredith College, 2008-present
 Convocation Committee, Meredith College, 2008-present
 Manager of the Biological Sciences Greenhouse, Meredith College, August 2007-present
 Honors Committee, Meredith College, 2007-present
 Interim Co-Director of the Summer Reading Program, Meredith College, June- September 2008
 Writing Committee, Meredith College, 2007-2008
 Search Committee for Geosciences Assistant Professor, Meredith College, Spring 2007
 Committee of Student Awards, Institute of Ecology, University of Georgia, 2002-03
 Coordinator of Recycling Committee, Institute of Ecology, University of Georgia, 2002-03
 Committee of Public Relations and Extension, Institute of Ecology, University of Georgia, 1999-2000
 Committee of the Graduate Student Symposium, Institute of Ecology, University of Georgia, 1999

MENTORING

Postdoctoral and Doctoral Mentees, Preparing Future Faculty (PFF) Program, Duke University, Durham, NC
 Julie DeMeester, 2008-present, doctoral candidate, Nicholas School of the Environment, Duke University
 Susan Smith, 2007-2008, postdoctoral fellow, Duke School of Medicine, Duke University

Undergraduate Research Advisor

Samantha Price, 2009-present, Meredith College
 Anna Simmons, 2008-present, Meredith College
 Jillian Stancil, 2009-present, Meredith College
 Sara Roberson-present, 2008, Meredith College
 Brittni Walker, 2008, Meredith College
 Calley Jones, 2007-present, Meredith College
 Amanda Powell, 2007-2008, Meredith College
 Brittney Carr, 2007, Meredith College

Academic Advisor

BA in Biology (2 students currently), Meredith College, 2006-present
 BA in Environmental Studies (6 students currently), Meredith College, 2006-present
 BS in Biology with concentration in Health Science (3 students currently), Meredith College, 2006-present
 Freshman Academic Advisor (14 students currently), Meredith College, 2007-present

Student Organization Advisor

Faculty Advisor, Alpha Lambda Delta (freshman honors society), Meredith College, 2007-present
 Faculty Advisor, Angels for the Environment student organization, Meredith College, 2007-present

CONTINUING EDUCATION

Multicultural Competencies in Academic Advising Certificate Program, Meredith College, 2007-2008
 Scientific Teaching and Interactive Learning: Strategies to maximize student understanding in the biological sciences,
 Workshop at Annual Ecological Society of America's Meetings, San José, CA, August 2007.
 Certified Service Learning Instructor, Meredith College, May 2007
 Certified Study Abroad Program Director, Meredith College, 2006-2007
 Likelihood Methods in Forest Ecology Course, Institute of Ecosystem Studies, October 2005
 Wilderness First Responder (WFR), Wilderness Medical Associates, March 2003
 PADI Certified Open Water Diver, Roatán, Honduras, February 1998

VOLUNTEER SERVICE ACTIVITIES

Course Instructor of Environmental Science, Service Learning Course, Meredith College, 2007-2008

Interpreter of English/Spanish, El Pueblo, Raleigh, NC, 2007

Coordinator of First Official International Service Learning Course, Meredith College, 2007

Instructor of English as a Second Language, Catholic Social Services, Athens, Georgia, 2002

Interpreter of English/Spanish, Athens-Clarke County Public Schools, Georgia, 2002

Coordinator of Public Relations and Educator, Eco-Reach, University of Georgia, 1999-2002

LANGUAGES

English, native language

Spanish, fluent