SCOTT ASHER LEWINS

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EDUCATION

University of Maryland, College Park, MD;
Master of Science, Entomology, 2006.
Thesis title: "The Influence of Predator Species Richness on Prey Mortality: Implications to Conservation Biological Control."

State University of New York College of Environmental Science and Forestry, Syracuse, NY;
Bachelor of Science, magna cum laude, Environmental and Forest Biology, 2000.

WORK EXPERIENCE

Saint Michael's College, Dept. of Biology, Colchester, VT; 2011-present
Visiting Professor
Developed and instructed lecture and laboratory sections of Insects & Society, which examines the various interactions between insects, their environment and human society. Instructed laboratory sections of Introduction to Ecology and Evolution, a course that promotes hypothesis testing and experimental design during semester-long field-based projects, and Introductory Cell Biology and Genetics, promoting hypothesis testing and experimental design within the disciplines of cellular biology, genetics, and molecular biology.

University of Vermont, Plant & Soil Science Dept., Burlington, VT; 2012-present
Lecturer
Instructor for *A Bug's Life,* a non-majors biology course that introduces students to the world of insects and their impact on our everyday lives, from the food we eat to solving murder crimes.

Norwich University, Dept. of Biology & Physical Ed., Northfield, VT; 2010-2011
Adjunct Faculty
Instructed laboratory sections of Principles of Biology I, an introduction to biochemistry, cell biology, and human anatomy and physiology. Instructed laboratory sections of Principles of Biology II, which explores genetics, evolutionary theory, history and diversity of life on earth, and ecology. Instructed a laboratory section of Immunology, a course presenting the basic principles of immunology, including antigen/antibody characteristics, the role of the immune system in defense and disease, and the application of fundamental concepts in the development of new technologies and immunodiagnosis.

University of Vermont, Plant & Soil Science Dept., Burlington, VT; 2007-present
Insect Agroecology Laboratory Manager and Research Technician
Aided in the development and implementation of a research program in agroecology and sustainable pest management for a new faculty hire. Managed the day-to-day operations of the lab, including supervising undergraduate research technicians, providing technical assistance to graduate students and budget oversight. Contributed to the writing of multiple U.S. Department of Agriculture and National Science Foundation grants. Collected, managed and analyzed data on arthropods found in agricultural and unmanaged ecosystems.

Entomology Research Technician
Conducted research as part of U.S. Department of Energy grant studying the effects of climate change on ecosystems. As a member of a team of researchers studying a desert ecosystem in Moab, Utah, was responsible for characterizing the community of soil microarthropods found within the system. Duties consisted of extraction, identification, enumeration and preservation of mites and collembola found in the ecosystem and various statistical analyses, including multivariate analysis, on the community data gathered.

University of Maryland, College Park, MD; 2005-2006
Graduate Teaching Assistant
Instructed laboratory sections in Principles of Biology II, the first of three introductory biology courses offered, covering basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

University of Maryland, College Park, MD; 2003-2006
Graduate Research Assistant
Oversaw multiple concurrent laboratory and field studies in both agricultural and forest ecosystems. Duties included experimental design, data collection, statistical analysis, coordination of interns and design, setup and maintenance of equipment.

Washington Parks & People, Washington, DC; 2002-2003
Project Coordinator
Coordinated ecological restorations of the 1.6 mile long Watts Branch Park in the Far Northeast, DC. Facilitated the work of over 1000 volunteers at the Josephine Butler Park Center and in various city parks. Communicated directly with, or delegated volunteers and community members, to contact city officials regarding park advocacy, park maintenance and events and meetings.

United States Peace Corps, Morocco; 2001-2002
Volunteer - Environment Sector
Collaborated with officials from the Ministry of Water and Forests on the creation of the new Eastern High Atlas National Park, for the protection of the Barbary Sheep. Conducted environmental and health education lessons with the inhabitants of the park. Served as the regional Gender and Development (GAD) representative.

San Jose Unified School District, San Jose, CA; 2001
High School Teacher
Developed lessons based on the California standard curriculum. Conducted lessons in Biology, Algebra, and Geography. Assisted special education teachers in the drafting of Individualized Education Plans (IEP). Guided 12th grade students in the completion of independent health requirements.

State University of New York College of Environmental Science & Forestry, Syracuse, NY; 1999-2000
Undergraduate Teaching Assistant - Environmental and Forest Biology program
Assisted professors in the instruction of Cell Physiology, Diversity of Plants and General Entomology.

PUBLICATIONS

Moreno, C.R., **S.A. Lewins**, and P. Barbosa. 2010. Influence of relative abundance and taxonomic identity on the effectiveness of generalist predators as biological control agents. Biological Control, 52, pp. 96-103.

Neher, D. A., **S. A. Lewins**, T. R. Weicht and B. J. Darby. 2009. Microarthropod communities associated with biological soil crusts in the Colorado Plateau and Chihuahuan deserts. Journal of Arid Environments, 73, pp. 672-677.

Lewins, S.A. and P. Barbosa. Does Identity of Species in a Predator Assemblage Influence the Relationship Between Predator Species Richness and Prey Mortality? Biological Control. (In Review)

Moreno, C.R. **S.A. Lewins**, P. Barbosa. Identifying and assessing the major arthropod predators of Pieris rapae L. in Maryland collards (Brassica Oleraceae Var. Acephala). (In Prep).

ORAL PRESENTATIONS

Chen, Y.H., **S.A. Lewins**, G.A. Langellotto. 2008. What value do forests have for pest control in agroecosystems? Entomological Society of America Annual Meeting; Reno NV.

Moreno, C.R., **S.A. Lewins**, P. Barbosa. 2008. The Influence of Relative Abundance and Taxonomic Identity on the Effectiveness of Generalist Predators as Biological Control Agents. Entomological Society of America Pacific Branch Annual Meeting; Napa, California.

Lewins, S.A., P. Barbosa. 2007. The Influence of Predator Species Richness on Prey Mortality: Implications to Conservation Biological Control. University of Vermont Department of Plant and Soil Science Seminar Series; Burlington, VT.

Lewins, S.A., P. Barbosa. 2006. The Influence of Predator Species Richness on Prey Mortality: Implications to Conservation Biological Control. University of Maryland Department of Entomology Colloquium Series; College Park, MD.

Lewins, S.A., C.R. Moreno, P. Barbosa. 2006. The Influence of Predator Species Richness on Prey Mortality: Implications to Conservation Biological Control. Entomological Society of America Eastern Branch Annual Meeting, Charlottesville, VA.

Moreno, C.R., **S.A. Lewins**, P. Barbosa. 2006. Do the numerically dominant species in an assemblage of generalist predators consume the most prey? Entomological Society of America Eastern Branch Annual Meeting; Charlottesville, VA.

Lewins, S.A., C.R. Moreno, P. Barbosa, A. Caldas. 2005. Analysis of the Predator Community Affecting Crucifer Herbivores. Entomological Society of America Eastern Branch Annual Meeting, Harrisburg, PA.

POSTER PRESENTATIONS

Lewins, S.A., T.R. Weicht, D.A. Neher. 2008. The Microarthropod Community Associated with Desert Biological Crusts of the Colorado Plateau. Entomological Society of America Eastern Branch Annual Meeting; Syracuse, NY.

OTHER PROFESSIONAL EXPERIENCE

Randolph Union High School, Board of Directors, Chairperson
Orange Southwest Supervisory Union, Board of Directors, Board Member
Randolph Technical Career Center, Board of Directors, Board Member
Vermont Soccer Officials Association, Official
Vermont Soccer League, Official
Vermont Lacrosse Officials Association, Official
Randolph Youth Soccer, Coach
University of Vermont Staff Council, Representative
University of Maryland Entomology Student Organization, President
Redwood Middle School, Soccer and Track and Field Coach
Croton Harmon High School, Varsity Boys Soccer Coach