

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

Full-time Instructor

Developed and instructed lecture and laboratory sections of Applied Insect Ecology and Insects & Society, examining the various interactions between insects, their environment and human society. Instructed lecture and laboratory sections of Introduction to Ecology and Evolution, laboratory sections of Introductory Cell Biology and Genetics, and Biological Communications – a non-lab writing intensive course.

University of Vermont, UVM Extension, Saint Albans, VT; 2012-present

Agricultural Entomology Researcher (part-time)

Brought entomology expertise to the UVM Extension Northwest Crops and Soils Team in order to provide the best and most relevant cropping information, both research-based and experiential, delivered in the most practical and understandable ways to Vermont farmers.

University of Vermont, Plant & Soil Science Dept., Burlington, VT; 2007-present

Research Affiliate in Agricultural Entomology (part-time): 2015-present

Collaborated with researchers in the Agroecology and Livelihoods Collaborative on Participatory Action Research projects focused on managing an emerging invasive pest of alliums and innovative approaches to managing existing pests on diversified vegetable farms in Vermont.

Part-time Faculty: 2012-2016

Lecturer 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.

Insect Agroecology and Evolution Laboratory Manager and Research Technician: 2008-2011

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: 2007-2008

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.

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, role of immune system in defense and disease, and applications of fundamental concepts in immunodiagnosis.

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 with, or delegated volunteers or community members to contact, city officials regarding park advocacy and park maintenance.

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 IEPs and guided 12th grade students in the completion of independent health requirements.

CERTIFICATIONS

Certified Pesticide Applicator, State of Vermont; Categories 1A & 10

GRANTS AWARDED

Specialty Crop Block Grant Program (Vermont Agency of Agriculture, Food and Markets, USDA), 2018-2020. "Using regionally adapted entomopathogenic nematodes as a biological control for Colorado potato beetle." Co-PI with Victor Izzo. \$40,563

Specialty Crop Block Grant Program (Vermont Agency of Agriculture, Food and Markets, USDA), 2017-2019. "Leek Moth Monitoring and Management Study." Co-PI with Victor Izzo. \$41,032

Partnership Grant Program (Northeast Sustainable Agriculture Research & Education), 2017-2018. "Application of regionally adapted nematodes for root maggot management. Co-PI with Victor Izzo. \$13,046

City Market Co-op Patronage Seedling Grant Program, 2017-2018. "Plugging a 'leek' in the local food system: Innovative strategies for managing the invasive leek moth." Co-PI with Victor Izzo. \$2,777

PUBLICATIONS

Calderwood, L., **SA Lewins**, H. Darby. 2015. Survey of Northeastern hop (*Humulus lupulus*) pests and their natural enemies. *Journal of Integrated Pest Management* 6(1): 18-32.

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 Oleracea* Var. *Acephala*). (In Prep).

ORAL PRESENTATIONS

Izzo, V. and **S. A. Lewins** Garlics and onions and leeks, oh no! Monitoring and management of the invasive leek moth, *Acrolepiopsis assectella*. Entomological Society of America Annual Meeting; Denver, CO.

Hazelrigg, A., V. Izzo, **S.A. Lewins**. 2017. Disease and Pest Problems. NOFA Vermont 35th Annual Winter Conference, Burlington VT.

Lewins, S.A., J. Cubins, L. Calderwood. 2017. Basics of pest ID and IPM. 8th Annual University of Vermont Extension Winter Hops Conference, Burlington, VT.

Lewins, S.A., V. Izzo. 2016. Developing Sustainable Pest Management tactics for the Invasive Leek Moth. NOFA Vermont 34th Annual Winter Conference, Burlington VT.

Lewins, S.A., V. Izzo, M. Seto. 2015. The leek moth invasion: A monitoring program detailing the current and potential distribution of leek moth within Vermont and New York. Entomological Society of America Annual Meeting; Minneapolis, MN.

Lewins, S.A., L. Calderwood. 2015. Vermont Hops Statewide Scouting and Integrated Pest Management Options. 6th Annual University of Vermont Extension Winter Hops Conference, Burlington, VT.

Calderwood, L., **S.A. Lewins**, C. Burke, H. Darby. 2014. What Hops in a Hopyard? 5th Annual University of Vermont Extension Winter Hops Conference, Burlington, VT.

Darby, H., R. Madden, **S.A. Lewins**. 2013. Varietal Evaluations, Pests, Fertility, and Cover Crops in Vermont Hops. 4th Annual University of Vermont Extension Winter Hops Conference, Essex, VT.

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

Fairbank's Museum and Planetarium, Board of Directors, Board Member
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