Elise A. Larsen

Dept. of Biology, Regents Hall 561 Georgetown University, 37 & O Streets NW Washington D.C., 20057

Education

Ph.D., Biology, University of Maryland (UMD) Advisor: Bill Fagan. Dissertation Topic: Avian community responses to ecological disturbance and recovery at Mount St. Helens M.S., Biology, College of William and Mary (W&M) Advisor: Bryan Watts, Center for Conservation Biology. Thesis Topic: Effects of Urban Development on Breeding Bird Diversity: the role of diet and migration B.S., Zoology, Concentration in Environmental Biology, Michigan State University (MSU) Phi Beta Kappa, Golden Key, Honors College

Email: eal109@georgetown.edu

Publications

- **E.A. Larsen**, C.M. Crisafulli, and W.F. Fagan. Local and regional colonization patterns identified using a novel approach to defining regional species pools. Submitted to **Ecography**.
- J. Thorson, J. Ianelli, **E. Larsen**, M. Scheuerell, C. Szuwalski, and E. Zipkin. 2016. Joint dynamic species distribution models: a tool for community ordination and spatiotemporal monitoring. **Global Ecology and Biogeography.**
- K.A. Olson, E.A. Larsen, T. Mueller, P. Leimgruber, T.K. Fuller, G.B. Schaller and W.F. Fagan. 2014. Survival probabilities of adult Mongolian gazelles. Journal of Wildlife Management 78(1): 35-41.
- K.R.B. Schmitt*, **E.A. Larsen***, M.W. Miller, A. Andrew, A.H.A. Badaway, M. Dougherty, K. Hrapczynski, B. . Robertson, A. Taylor, A. Williams, S. Kramer, and S. Benson. 2013. A survey tool for assessing student expectations early in a semester. **Journal of Microbiology and Biology Education 14(2): 255.** *co-first-authors
- W.F. Fagan, Y. Pearson, E. Larsen, J.B. Turner, H.J. Lynch, H.Staver, J. Turner, A. E. Noble, S. Bewick, and E. Goldberg. 2013. Phylogenetic prediction of the maximum per capita rate of population growth. **Proceedings of the Royal Society, Series B 280: 20130523**
- K.R.B. Schmitt, A.H.A. Badaway, S. Kramer, K. Hrapczynski, **E. Larsen**, A. Andrew, A. Taylor, A. Williams, S. Benson, M. Dougherty, M. Miller, and B. Robertson. 2013. Student expectations from CS and other stem courses: they aren't like CS- majors! or (CS !=Stem-CS). *J. Comput. Sci. Coll.* 28(6): 100-108.
- E.A. Larsen, W.F. Fagan, J.M. Calabrese and M. Rhainds. 2013. Female mating failure in nonautonomous spatial population models with protandry. Entomologia Experimentalis et Applicata 146: 130-140. #Invited Paper W.F. Fagan, C. Cosner, E.A. Larsen and J.M. Calabrese. 2010. Reproductive Asynchrony in Spatial Population Models: How Mating Behavior Can Modulate Allee Effects Arising from Isolation in Both Space and Time. The American Naturalist 175: 362-373.

Working Groups and Research Networks

Invited Member, Models for Citizen Science Insect Data, SESYNC	2014-Present
Member, Phenotype Research Coordination Network	2014-Present
Invited Member, ABI Development: Access, visualization and statistical tools for the	2012
analysis of butterfly monitoring data, NSF	

Research Experience

Post Doctoral Fellow, Georgetown University

2016-Present

- Mentor: Leslie Ries
- Tools for analysis of citizen science butterfly monitoring data
- Species physiological traits database including OCR and image analysis
- Thermal ecology, phenology, and population dynamics of N. American butterflies

Postdoctoral Research Associate, SESYNC

2013-2016

• Mentor: Leslie Ries (see above)

Curriculum vita, E. Larsen 1 of 3

Graduate Student and Research Assistant, Fagan Biology Lab, UMD	2007-2013
 Successional dynamics and bird community composition at Mount St. Helens 	
Spatial analysis of regional dispersal and "regional species pool" scaling	
Test of community assembly hypotheses	
Field transect surveys of birds, nest monitoring, vegetation sampling	
 Phylogenetic analysis of maximum population growth rate [RA 2010-2012] 	
 Theoretical modeling of populations with reproductive asynchrony and voltinism 	
Researcher, Oceanites Inc.	2008 - 2013
 Surveying penguin & seabird colonies in the Antarctic Peninsula region 	
 Biologist ambassador to Antarctic tourists including research lectures 	
Graduate Student, Center for Conservation Biology, W&M	2005-2007
 Spatial analysis of land use and human population on avian diversity 	
Volunteer, Fairfax County Stream Monitoring Program	2004-2005
Volunteer / Contract Employee, Patuxent Wildlife Research Center, USGS	1999-2001
 Field work, sample preparation for contaminant exposure and effects in Osprey 	
 Contaminant database http://www.pwrc.usgs.gov/CEETV/ 	
Other Professional Experience	
AIMS Coordinator, American Bird Conservancy	2002-200
 Managed the Avian Incident Monitoring System (AIMS) including pesticide research 	
trial and web-accessible database of pesticide poisonings in wild birds in the U.S.	
Grants, Awards, and Fellowships (Awarded to E. Larsen unless otherwise noted)	
Jacob K. Goldhaber Travel Grant, UMD Graduate School. \$500	2012
DC Lilly Conference Grant, UMD Center for Teaching Excellence. [Expenses]	2011, 2012
Graduate Lilly Fellowship, UMD Center for Teaching Excellence. \$1000	2011-2012
Exploration and Field Research Grant, Explorers Club Washington Group. \$2400	2010
Departmental Excellence & Innovation in Undergraduate Teaching Award, UMD Center for	2008-2009
Teaching Excellence. Awarded to the Interdisciplinary Math 130/131 Team.	
Graduate Student Summer Research Fellowship, UMD. \$5000	2009
Eloise Gerry Fellowship, UMD Biology Department. [tuition and stipend]	2007
Honorable Mention for Excellence in Scholarship, W&M Graduate Research Symposium	2007
Bill Sheehan Ornithology Research Grant, Williamsburg Bird Club. \$500	2007
Outstanding Teaching Assistant Award, W&M Biology Department. \$200	2006
U.S. Environmental Protection Agency Cooperative Agreement. Awarded to American Bird	2005
Conservancy, Avian Incident Monitoring System (ABC-AIMS). \$61,104 U.S. Environmental Protection Agency Cooperative Agreement. Awarded to ABC-AIMS. \$50,000	2004
	2001
Ta, Calculus for Life Sciences I & II, UMD	2008-2010
Prepared teaching materials including biology modules and quizzes.	Fall 2012
 Instructed students in calculus and its applications in biology. 	2012
 Facilitated student review sessions, tutoring. Graded coursework and exams. 	
GA, Calculus for Life Sciences I & II, UMD	2007-2008
Developed course materials for biological applications of math skills	2007-2008
Guest Lecturer, Integrative Biology II, W&M	2007
Topic: Embryogenesis in Plants. Wrote corresponding exam material.	2007
TA, Integrative Biology I and II, W&M	2005-2007
Prepared teaching materials including handouts, question sets, and quizzes.	2003-2007
 Instructed and supervised animal identification, dissections, and other course material. 	
• instructed and supervised animal identification, dissections, and other course material.	
Personable for course content and student avaluation for 40 CO students	
Responsible for course content and student evaluation for 40-50 students. Facilitated student review sessions, tutoring, Graded sourcework and evams.	
 Responsible for course content and student evaluation for 40-50 students. Facilitated student review sessions, tutoring. Graded coursework and exams. Small group and individual GED and ESOL instruction, BEACON Program 	2003-2005

Curriculum vita, E. Larsen 2 of 3

Calculus for Life Sciences I & II, UMD	2007-2010
 Developed weekly modules and assignments using biological applications of math skills 	
TA, Integrative Biology I and II, W&M	2005-2007
 Prepared teaching materials including handouts, question sets, and quizzes. 	
Advising and Mentoring	
Jessica Turner, UMD M.S. Student	2010-201
High School Senior Research Project: Butterfly Ecology	201
UMD Undergraduate, Bird Community Ecology	201
REU from Univ. of Kentucky, Bird Community Ecology at Mount St. Helens	201
resentations, 2007-2014 (* indicates presenter)	
Larsen, E.A.* "Estimating trends for North American butterflies using Citizen Science" Invited	2014
Talk, Institute of Environmental Sciences, Jagiellonian University, Poland.	
Larsen, E.A.* "Butterfly Population Trends: Insights from Citizen Science" SESYNC Seminar.	2014
Larsen, E.A.* "Avian community responses to ecological disturbance and recovery at	2013
Mount St. Helens, WA". Invited Talk, UMD, BEES Departmental Seminar.	
Larsen, E.A.*, A.H. Badaway*. "The Student-Faculty Chasm: Looking at where student and faculty	2013
expectations meet and diverge". DC Lilly Conference, Bethesda, MD.	
Larsen, E.A.*, C. Crisafulli, and W.F. Fagan. "Avian community assembly processes during	2012
primary succession". Talk, ESA Annual Meeting, Portland, OR.	
Larsen, E.*, K. Schmitt*, A. Andrew, A.H. Badawy, M. Dougherty, K.M. Hrapczynski, M. Walker	201
Miller, B. Robertson, A. Taylor, A. Williams, S. Kramer, S. Benson. "From seed to STEM:	
Cultivating understanding of student and faculty classroom expectations" Invited Talk, UMD	
Center for Teaching Excellence Lilly Showcase, College Park, MD.	
Andrew, A., A.H. Badawy, M. Dougherty*, K.M. Hrapczynski*, E. Larsen *, M. Walker	201
Miller, B. Robertson, K. Schmitt, A. Taylor, A. Williams, S. Kramer, S. Benson. "Building a Tool for	
Pre-assessing Student Expectations" Poster, UMD GRID, College Park, MD. [Best Poster Award]	
Larsen, E.A.*"What we can learn from birds at Mount St. Helens?" Invited Talk, Explorer's Club	201
Washington Group, Washington, D.C.	
E.A. Larsen* and B.D. Watts . "The impacts of urbanizing landscapes on bird diversity in the Mid-	200
Atlantic Coastal Plain: the role of dietary guild." Poster, ESA Annual Meeting, San Jose, CA.	
rofessional Service	
Webmaster, Fagan Lab, UMD	2007 - 2013
Representative, Graduate Student Government, UMD	2008 - 2010
Graduate Student Representative, Conservation Biologist Search Committee, W&M	2007
Representative, Graduate Student Association, W&M (Treasurer in 2006-2007)	2005 - 2007
Professional Development	
EOL-BHL Research Sprint	2013
Software Carpentry Workshop	2013
Ontologies for Evolutionary Biology, NESCent Workshop	2013
University Teaching and Learning Program, UMD Center for Teaching Excellence	2011 - 2013

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