

Ashley Elizabeth Larsen
Bren School of Environmental Science & Management, UCSB
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EDUCATION

PhD 9/2015. *Ecology, Evolution & Marine Biology*
University of California, Santa Barbara

M.A. 6/2012. *Economics*
University of California, Santa Barbara

B.S. 12/2008. *Ecology and Evolutionary Biology*
University of Michigan, Ann Arbor
High honors & Distinction

PROFESSIONAL APPOINTMENTS

2016- *Assistant Professor, Bren School of Environmental Science & Management, UCSB*

2015-2016 *UC President's Postdoctoral Fellow, UC Berkeley*

2014-2015 *Environmental Protection Agency STAR Fellow, UCSB*

2014-2015 *Broom Center for Demography Graduate Research Fellow, UCSB*

2009-2012 *National Science Foundation Graduate Research Fellow, UCSB*

2009-2011 *Graduate Student Advisory Committee, UCSB*

PUBLICATIONS

T. Tschardtke, D. Karp, R. Chaplin-Kramer, P. Batáry, F. DeClerck, C. Gratton, A. Ives, M. Jonsson, **A. Larsen**, E. Martin, A. Martínez-Salinas, T. D. Meehan, M. O'Rourke, K. Poveda, J.A. Rosenheim, A. Rusch, N. Schellhorn, S. Wratten, W. Zhang. When natural habitat fails to enhance biological pest control. (*In review*).

A.E. Larsen, S. Gaines, O. Deschênes. Agricultural pesticide exposure and adverse birth outcomes in the San Joaquin Valley, CA. (*In review*).

R. Selden, S. Valencia, **A.E. Larsen**, J. Cornejo-Donoso, A. Wasserman*. (2015). Do eco-labels convey reliable information on environmental impact to seafood consumers? *Marine Policy* 64: 102-115.

A.E. Larsen, B.T. Hendrickson*, N Dedeic*, A.J. MacDonald. (2015). Taken as a Given: Evaluating the Accuracy of Remotely Sensed Crop Data. *Agricultural Systems* 141: 121-125.

- A.E. Larsen**, S. Gaines, O. Deschênes. (2015). Spatio-temporal variation in the relationship between landscape simplification and insecticide use. *Ecological Applications* 25(7): 1976-1983.
- A.E. Larsen**[̄], A. MacDonald[̄], & A. Plantinga[̄] (2014). Lyme Disease Risk Influences Human Settlement in the Wildland Urban Interface: Evidence from a Longitudinal Analysis of Counties in the Northeastern U.S. *The American Journal of Tropical Medicine & Hygiene* 91(4): 747-755.
- A.E. Larsen**. (2013). Agricultural landscape simplification does not consistently drive insecticide use. *Proceedings of the National Academy of Science, USA* 110(3): 15330-15335.
- C. Costello, O. Deschênes, **A.E. Larsen**, S. Gaines (2013). Removing biases in forecasts of fisheries status. *Journal of Bioeconomics* 16:213-219.
- A.E. Larsen**. (2012) Modeling multiple non-consumptive effects in simple food webs; a modified Lotka-Volterra approach. *Behavioral Ecology* 23 (5): 1115-1125.
- N.L. Gutiérrez, S.R. Valencia, T.A. Branch, D.J. Agnew, P. L. Bianchi, J. Cornejo-Donoso, C. Costello, O. Defeo, T.E. Essington, D.D. Hoggarth, **A. E. Larsen**, C. Ninnis, R. L. Selden, S. Sistla, A.D.M. Smith, A. Stern-Pirlot, S. J. Teck, J.T. Thorson, N.E. Williams. (2012). Eco-labels convey reliable information on stock status to seafood consumers. *PLoS One* 7 (8) e43765. doi:10.1371/journal.pone.0043765.
- A.E. Larsen** & S.M. Philpott. (2010). Twig-nesting ants: the hidden predators of the Coffee Berry Borer, *Hypothenemus hampei* in Chiapas, Mexico. *Biotropica* 42(3): 342–347.
- H. Liere & **A.E. Larsen**. (2010). Cascading trait-mediation: disruption of a trait-mediated mutualism by parasite-induced behavioral modifications. *Oikos* 119: 1394–1400.
- [̄] indicates equal contribution of authors, * indicates undergraduate author.

PRESENTATIONS & POSTERS

- A.E. Larsen**, O. Deschênes & S.D. Gaines. *Invited talk within the Organized Symposium: "Agricultural Intensification and Insect Communities: Production Trade-Off Challenges With 9 Billion on the Horizon"*. Agricultural landscape simplification and insecticide use. Entomological Society of America Annual Meeting. 16-19 November, 2014.
- A.E. Larsen**, S.D. Gaines & O. Deschênes. Spatiotemporal variation in the relationship between landscape simplification and insecticide use. Ecological Society of America Annual Meeting. Sacramento, CA. 10-15 August 2014.
- A.E. Larsen**. Pesticides and low birth weight in the San Joaquin Valley, CA. 9th Summer Institute on Health & Migration. Oakland, CA. 16-19 June 2014.

- A.E. Larsen**, O. Deschênes & S.D. Gaines. A statistical analysis of pesticide exposure and low birth weight in the San Joaquin Valley, CA. UC Global Health Day. Davis, CA. 26 April 2014. (*Poster*).
- A.E. Larsen**. Not so simple: Landscape simplification does not consistently drive insecticide use. Ecological Society of America Annual Meeting. Minneapolis, MN. 4-9 August 2013.
- A.E. Larsen**. Revisiting “Does landscape simplification drive insecticide use?”: Insights from the USDA Census of Agriculture 1987-2007. Ecology, Evolution & Marine Biology Graduate Student Symposium, 12 February, 2013.
- A.E. Larsen** & A.J. MacDonald. Non-consumptive effects maintain coexistence of a weaker competitor on a shared resource. Ecological Society of America Annual Meeting, Austin, TX. 8-12 August, 2011.
- A.J. MacDonald & **A.E. Larsen**. What drives dominant ant foraging in coffee? Ecological Society of America Annual Meeting, Austin, TX. 8-12 August, 2011. (*Poster*)
- A.E. Larsen** & H. Liere. Effects of phorid flies (*Pseudacteon* sp.) on the foraging and persistence of the ladybeetle (*Azya orbigera*) in an organic coffee system. Entomological Society of America Annual Meeting, Reno, NV 16-19 November, 2008.
- A.E. Larsen** & H. Liere. Cascading trait-mediated interactions and broken mutualisms. Tropical Biology Seminar Series, University of Michigan, 2 October, 2008.

FELLOWSHIPS & GRANTS

- 2015-2017 ** UC President’s Postdoctoral Fellowship, UC Berkeley
2015 **CU Boulder Chancellor’s Postdoctoral Fellowship (*Declined*)
2014-2016 ** 2013 EPA STAR (awarded 2014)
 * Worster Family Mentorship Award, UCSB
 ** UC President’s Dissertation Year Fellowship, UCSB
2013 ** Graduate Division Fellowship Year, UCSB
 Broom Center for Demography Travel & Research Grant, UCSB
2012 * Ecology, Evolution & Marine Biology Block Grant, UCSB
2010-2012 * Luce Environmental Science to Solutions Fellowship, UCSB
2009-2012 ** NSF Graduate Research Fellowship Program
2008 Travel & Conferences Grant, University of Michigan
 John Patrick Kennedy Research Award, Honors College, University of Michigan.
2007 Rackham School for Graduate Studies Whittaker Research Fellowship,
 University of Michigan
 NSF Research Experience for Undergraduates

*Indicates grants >5,000\$; ** Indicates grants >30,000\$

MENTORING, TEACHING & OUTREACH

- 2016 *Undergraduate Research Apprentice Program (URAP)*
Co-mentoring two UC Berkeley students on food waste & biodiversity project.
- 2014 *Teaching Assistant, Ecology of Managed Systems.*
Led discussion, helped write exams for ~50 Master's students in the Bren School of Environmental Science & Management, UCSB (Prof: David Tilman).
- 2014-2015 *Mentoring 3 UCSB Biology majors**
- 2013 *Mentored 2 UCSB undergraduate Economics majors***
- 2012 *Jack Kent Cooke Bridges Program*
Mentored 4 transfer students through their first research experience, UCSB
- 2012 *Teaching Assistant for Ethology & Behavioral Ecology*
Led discussion, field and computer labs for ~40 undergraduate students, UCSB (Prof: Stephen Proulx).
- 2009-2011 *Graduate Student Advisory Committee*
Ecology, Evolution & Marine Biology, UCSB
- 2009 *Teaching Assistant for Ethology & Behavioral Ecology*
Discussion, field and computer labs for ~40 undergraduate students. UCSB (Profs: Stephen Proulx, Steven Rothstein).

*Informal mentoring of 3 UCSB undergraduate biology majors 2014-2015 (resulted in Agricultural Systems publication). **Informal mentoring of 2 UCSB undergraduate economics majors 2012-2013. One is pursuing a PhD at University College London.

RELATED EXPERIENCE

- 2015-2017 *Science for Nature & People (SNAP)* working group titled, "Land-use Change and Conservation Policy in Brazil and the US for Biodiversity, Ecosystem Services and Economic Returns"
- 2015 K.J. Helmstedt, K.A. Jagannathan, A.E. Larsen, L.C. Moreno, M.J. Ohnesorge, L. Sakaguchi, A.B. Siegner, J.R. Stokes, M.D. Potts. (2015). Designing intelligent food, energy, and water systems (DIFEWS). *A whitepaper funded by National Science Foundation Award CBET-1541880*
- 2014-2016 *National Socio-Environmental Synthesis Center (SESYNC)*. Working group titled, "Evidence and Decision-Support Tools for Controlling Agricultural Pests with Conservation Interventions".
- 2014 *Software Carpentry Technical Computing Bootcamp*
- 2013 *International Summer Academy on Spatial Ecotoxicology and Ecotoxicological Risk Assessment - Using an Open Community Approach*
Universität Koblenz-Landau, Landau, Germany.

- 2011 *Enhancing Linkages Between Mathematics and Ecology*
Kellogg Biological Station, Michigan State University.
- 2010-2012 *National Center for Ecological Analysis & Synthesis (NCEAS)*
Working group entitled “Can eco-labeling drive conservation and sustainable harvesting of marine fisheries?”.
- 2010 *COMPASS Science Communication & COMPASS Science Policy Workshop*
- 2009 *Biomechanics, Ecological physiology and Genetics of Intertidal Communities*
Hopkins Marine Station, Stanford University.
- 2008 *Field Course in Resource Management and Sustainable Development*
Institute of Central American Development Studies.
- Honors Thesis*
Title: “Effect of intraspecific variation in caudal fin size on the steady swimming kinematics of goldfish (*Carassius auratus*)”.
Advisor Dr. Paul Webb (U. Michigan)
- 2007 *NSF Research Experience for Undergraduates: Ecosystem Ecology*
Toolik Lake Research Station, AK. Marine Biological Laboratory. Advisor: Dr. George Kling (U. Michigan).

OTHER EXPERIENCE & SKILLS

Computers: Proficient in STATA, ArcGIS, QGIS, and LaTeX packages, working knowledge of R, basic knowledge of MATLAB & Mathematica.

Language: Intermediate spoken and written Spanish