

# CANDACE LOW, PH.D.

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## EDUCATION

**Ph.D.**, Ecology, Evolution and Marine Biology, U.C. Santa Barbara

**M.A.**, Biology, San Francisco State University

**B.A.**, Integrative Biology, U.C. Berkeley

## PROFESSIONAL DEVELOPMENT

### Adjunct Assistant Professor (2013-)

Department of Biology, San Francisco State University, San Francisco, CA

### Lecturer (2017-2019)

Department of Biological Sciences, San José State University, San José, CA

### Biostatistician (2014-2017)

BirdReturns Project, The Nature Conservancy, San Francisco, CA

### Adjunct Professor (2013-2015)

Science and Mathematics, University of California Berkeley Extension Program, Berkeley, CA

### Postdoctoral Fellow, National Science Foundation (2009-2012)

Mentor: Stephen Ellner, Dept. of Ecology & Evolutionary Biology, Cornell University, Ithaca, NY

### Visiting Research Scientist, USDA-ARS, Beltsville, MD (2007-2008)

Supervisor: Sonja Scheffer, Systematic Entomology Lab, USDA-ARS, Beltsville, MD

## TEACHING & LEADERSHIP

### Course development

- *Animal Diversity, Biometry, Conservation Biology, Ecology, Entomology* (SFSU)
- *Biology of the Living World, Life on a Changing Planet, Origins of Life* (SJSU)
- *Biostatistics, General Biology Lab* (U.C. Berkeley Extension Program)

### Graduate committee service and student advising

1. Faye, Lindsay. Master's thesis: "Temperature and salinity stress alter metabolism and epiphyte grazing of Taylor's sea hare, *Phyllaplysia taylori*", Romberg Tiburon Center, SFSU, 2017.
2. Sebilian, Serina. Master's thesis: "Temperature and salinity effects on Sago pondweed, *Stuckenia pectinata*, traits and susceptibility to grazing", Romberg Tiburon Center, SFSU, 2016.
3. Norouzi, Yasaman. Undergraduate honor's thesis: "Optimal foraging of a parasitoid wasp", Simon Fraser University, Burnaby, British Columbia, Canada, 2010.
4. Hanley, Daniel. NSF REU project: "Effect of light on distribution of a leaf-mining moth on white oak", Blandy Experimental Farm, University of Virginia, 2002. (See Low and Hanley 2012.)

## PUBLICATIONS

1. Owens, M.T. and 67 others, including **C. Low**. 2018. Collectively improving our teaching: attempting biology department-wide professional development in scientific teaching. *CBE: Life Sciences Education*: March 1; 17(1):ar2.
2. Golet, G. H., **C. Low**, S. Avery, K. Andrews, C. McColl, R. Laney, M. Reynolds. 2018. Using ricelands to provide temporary shorebird habitat during migration. *Ecological Applications* 28: 409-426.

3. Reynolds, M. D. and 20 others, including **C. Low**. 2017. Dynamic conservation for migratory species. *Science Advances* 3(8): e1700707.
4. **Low, C.** and J. P. Sparks. 2017. Insect herbivory is associated with microsite quality. *Journal of the Torrey Botanical Society* 144: 26-34.
5. **Low, C.**, S. P. Ellner, and M. H. Holden. 2013. Optimal control and cold war dynamics between plant and herbivore. *American Naturalist* 182: E25-E39.
6. **Low, C.**, S. J. Scheffer, M. L. Lewis, and M. W. Gates. 2012. The relationship between variable host grouping and functional responses among parasitoids of a leafminer. *Molecular Ecology* 21: 5892-5904.
7. **Low, C.** 2012<sup>\*</sup>. Variable Risk and the Evolution of the Defense Repertoire of the Tupelo Leafminer, *Antispila nysaefoliella*. In: Pontarotti, P. (editor), *Evolutionary Biology: Mechanisms and Trends*. Heidelberg, Berlin: Springer-Verlag.
8. **Low, C.** and D. Hanley. 2012. A perspective on the importance of within-tree variation in mortality risk for a leaf-mining insect. *Web Ecology* 12: 27-32.
9. **Low, C.** 2012. An experimental test of the seismic behaviors of *Antispila nysaefoliella* (Lepidoptera: Heliozelidae) to vibrational stimuli. *Florida Entomologist* 95: 16-20.
10. **Low, C.** 2010. The presence of active larvae delays the emergence of conspecifics in the tupelo leafminer, *Antispila nysaefoliella*. *Evolutionary Ecology Research* 12: 545-553.
11. **Low, C.**, S. Wood, and R. M. Nisbet. 2009<sup>†</sup>. The effects of group size, leaf size, and density on the performance of a leaf-mining moth. *Journal of Animal Ecology*, 78: 152-160.
12. **Low, C.** 2008. Grouping increases visual detection by specialist parasitoids. *Behavioral Ecology* 19: 532-538.
13. **Low, C.** 2008. Seismic behaviors of a leafminer, *Antispila nysaefoliella* (Lepidoptera: Heliozelidae). *Florida Entomologist* 91: 604-609.
14. **Low, C.** and E. F. Connor. 2003. Birds have no impact on a community of willow insects. *Oikos* 103: 579-89.

## AWARDS, FELLOWSHIPS & GRANTS

1. **National Science Foundation Postdoctoral Fellowship in Biological Informatics**, DBI-0904395: *Adaptive Behavior & Evolution as Mechanisms of Population Stability*; 2009-12 (\$189,000)
2. **International Society for Behavioral Ecology**: Best Poster Prize and Travel Award, 2008 (\$500)
3. **National Science Foundation Dissertation Improvement Grant**, DEB-0608392: *Linking Anti-parasitism Mechanisms and Population Dynamics*; 2006 (\$12,000)
4. **Ellen Schamberg Award for Travel**, UCSB, 2006 (for ESA in Memphis, TN, \$500)
5. **UCSB Graduate Student Council Travel Grant**, 2006 (for ISBE in Tours, France, \$1,030)
6. **Blandy Graduate Summer Research Fellowships**, Blandy Experimental Farm, University of Virginia, 2001-2006 (\$3000 per year; Total: \$18,000)
7. **Sigma Xi Grants-In-Aid-of-Research Grant**, *Vibrational communication in insects*, 2004 (\$920)
8. **American Society of Naturalists Travel Award**, 2004 (for SSE/ASN in Ft. Collins, CO, \$300)
9. **Professor Hering Memorial Research Fund**, British Entomological and Natural History Society, London, *Natural History of the Tupelo Leafminer, Antispila nysaefoliella*, 2002 (\$500)
10. **Graduate Fee Fellowship**, Univ. of California, Santa Barbara, fall 2002, winter & spring 2004
11. **Cota-Robles Graduate Fellowship**, Univ. of California, Santa Barbara, 2000-2003
12. **California State Univ. Doctoral Incentive Forgivable Loan**, 2000-2003 (\$30,000; merit-based)
13. **Grad. Assistance in Areas of National Need (GAANN) Fellowship**, SFSU, 1999 -2000 (\$10,000)
14. **San Francisco State University**, Dept. of Biology, Student Research Competition, 1<sup>st</sup> place, 1999

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<sup>\*</sup> Book chapter

<sup>†</sup> Recommended by Faculty of 1000

**INVITED TALKS**

1. **San José State University**, Biology Department, October 2017
2. **San Francisco State University**, Biology Department Colloquium, November 2012; December 2010
3. **Cornell University**, Neurobiology & Behavior Seminar Series, April 2012
4. **Chico State University**, Biological Sciences Omicron Theta Epsilon Lecture Series, March 2012
5. **Undergraduate Entomology Club**, Cornell University, Ithaca, NY, October 2011
6. **Evo-Group Seminar**, Ecology & Evolutionary Biology, Cornell University, September 2011
7. **University of California, Berkeley**, Department of Integrative Biology Colloquium, October 2010
8. **Simon Fraser University**, Les Ecologistes Seminar Series, October 2009
9. **Blandy Experimental Farm**, University of Virginia, Summer Colloquium, May 2009
10. **Eugene Lang The New School for Liberal Arts**, Urban Ecology Faculty Search, March 2009
11. **Cornell University**, Ecology & Evolutionary Biology Series, September 2008
12. **Syracuse University**, Biology Department Seminar Series, September 2008
13. **University of Nebraska, Lincoln**, Population Biology Series, June 2008

**PRESENTATIONS AT SCIENTIFIC MEETINGS**

1. **150<sup>th</sup> Meeting of the American Society of Naturalists**, Asilomar, CA, January 2018
2. **European Society for Evolutionary Biology**\*, Groningen, the Netherlands, August 2017
3. **15<sup>th</sup> Evolutionary Biology Meeting at Marseilles**\*, Marseilles, France, September 2011
4. **International Entomophagous Insects Conference**\*, University of Minnesota, July 2009
5. **Ecological Society of America**: Austin, TX, 2011, San José, CA, 2007; Memphis, TN, 2006
6. **Animal Behavior Society**, College of William & Mary, Williamsburg, VA, 2010
7. **International Society for Behavioral Ecology**, USA, 2008; France, 2006; Finland, 2004
8. **UCSB, Ecology, Evolution, & Marine Biology Graduate Symposium**, 2007, 2006
9. **Southern California Animal Behavior Conference**: UC San Diego, 2006; UCLA, 2004
10. **Society for the Study of Evolution**, Colorado State University, Ft. Collins, 2004
11. **Conservation Biology Symposium**, Stanford University, 2000
12. **California State University Student Research Competition**, CSU Pomona, 1999

**OTHER SERVICE**

1. **The Wildlife Society**, Advisor, *San Francisco State University Chapter*, 2016-19
2. **Ad hoc Referee**: *American Naturalist*, *Animal Behaviour*, *Behavioral Ecology*, *Ecology*, *Environmental Entomology*, *European J. Entomology*, *National Science Foundation*, *Natural Sciences and Engineering Research Council of Canada*, *Oecologia*, *Philosophical Transactions of the Royal Society*
3. **National Science Foundation Review Panel**, *Population Biology*, 2014; *Population & Community Ecology*, 2012; *Intersections in Math, Biology, Evolution, and Ecology*, 2010
4. **Graphic designer**, *Frontiers in Life Sciences Symposium*, Cornell University, 2012.
5. **Guest Teacher**, *Lessons on Sensory Ecology*, San Francisco Day School, 5<sup>th</sup> Grade, 2010
6. **Intern**, National Center for Ecosystem Analysis (NCEAS), Santa Barbara, CA, 2006
7. **Project Coordinator**, *Significant Natural Resource Areas Project*, San Francisco Recreation and Parks Department, San Francisco, CA, 1999-2000

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\* Invited speaker