

Anne S. Leonard

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EDUCATION

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| Ph.D. Animal Behavior, University of California, Davis | 2008 |
| M.S. Animal Behavior, University of California, Davis | 2004 |
| B.A. Biology, Brown University, Providence, Rhode Island <i>Magna cum laude</i> with honors in Biology | 2001 |

FELLOWSHIPS, GRANTS, AND AWARDS

Fellowships

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| Professors for the Future, UC Davis (\$3,000) | 2007-2008 |
| Internal Fellowship, UC Davis (1 year of support) | 2007-2008 |
| National Science Foundation Graduate Research Fellowship (3 years of support) | 2004-2007 |
| Eugene Cota-Robles Fellowship, UC Davis (2 years of support, \$8,000 for research) | 2002-2004 |

Grants

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| Research Grant for N.S.F. G.R.F.P. Fellows, UC Davis (\$3,000) | 2007 |
| Travel Award, Graduate Student Association, UC Davis (\$500) | 2007 |
| Jastro Shields Research Award, UC Davis (\$1,500) | 2003 |
| Undergraduate Teaching and Research Award, Brown University (\$2,400) | 2000 |

Awards

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| Founder's Award for best poster (honorable mention), Animal Behavior Society | 2004 |
| Phi Sigma honor society, UC Davis | 2003 |
| Senior Prize in Biology, Brown University | 2001 |
| Sigma Xi honor society, Brown University | 2001 |
| Phi Beta Kappa honor society, Brown University | 2000 |

RESEARCH EXPERIENCE

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| Postdoctoral Research Associate | 2008-present |
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“Pollinator sensory systems and the evolution of multimodal flower signals”
N.I.H. Postdoctoral Excellence in Research and Teaching fellowship
Center for Insect Science, University of Arizona
Supervisor: Dr. Daniel Papaj, Dept. of Ecology and Evolutionary Biology

Dissertation

“Sex-based differences in the integration and use of complex courtship signals”
Advisor: Dr. Ann Hedrick, Dept. of Neurobiology, Physiology and Behavior, UC Davis
Explored how female and male field crickets (*Gryllus integer*) use chemical and acoustic signals in mate discrimination and identified how age, experience and reproductive state influence these decisions.

Honors Thesis

1999-2001

“Dragline following preferences of male crab spiders”

Advisor: Dr. Douglass Morse, Dept. of Ecology and Evolutionary Biology, Brown University

Studied how male crab spiders (*Misumena vatia*) use silk draglines to locate cryptic females by comparing the responses of juvenile vs. adult males to draglines of spiders varying in sex, age and species. The pattern of preference indicates males may recognize species-specific chemotactile cues on female draglines. Completed scanning electron microscope surveys of sensory hairs and spider silks, collected and reared crab spiders.

Laboratory Assistant

June-October 2001

Dept. of Environmental Science, Policy and Management, UC Berkeley

Supervisors: Dr. Stephen Welter and Frances Cave

Monitored orchard populations of codling moth (*Cydia pomonella*) for pheromone-based mating disruption experiment, set up pheromone dispersal units, collected specimens and managed data.

Laboratory Assistant

Summer 1998

Jepson Herbarium, UC Berkeley

Supervisors: Dr. Thomas Rosatti and Claire Englander

Created digital images of California native plant specimens for SMASCH web database.

PUBLICATIONS

Leonard, A.S. and D.H. Morse. 2006. Line-following preferences of male crab spiders, *Misumena vatia*. *Animal Behaviour* 71(3): 717-724.

Leonard, A.S. and A.V. Hedrick. 2009. Sex-based differences in mate discrimination: Single vs. multiple cues. *Animal Behaviour*.

TEACHING EXPERIENCE**Guest Lecturer, UC Davis**

ANB 298: Animal Behavior Graduate Group first year seminar 2004, 2005, 2006
 “Nature vs. nurture debate”, “Optimality”, “The comparative method”

EVE 107: Animal Communication: “Complex signaling” Fall 2006, 2007
 Dr. Gail Patricelli, Section of Evolution and Ecology

NPB 90c: Sexual Selection “Complex signaling” Spring 2007, 2008
 Dr. Ann Hedrick, Dept. of Neurobiology, Physiology and Behavior.

Teaching Assistant, UC Davis

NPB 102: Animal Behavior Winter 2005
 Dr. Greg Cunningham, Dept. of Neurobiology, Physiology and Behavior.

NPB 90c: Sexual Selection Spring 2004
 Dr. Ann Hedrick, Dept. of Neurobiology, Physiology and Behavior.

Instructor, Fogarty Family Literacy/Olneyville E.S.L. 1998-1999
 Taught introductory English as a second language to Central American and Haitian immigrants

Specialized Training, UC Davis

EDU 398: Seminar in college teaching Fall 2007
 FRE 298: Professional integrity and ethics in the contemporary university Winter 2008

ACADEMIC SERVICE

Professors for the Future Fellow, UC Davis Office of Graduate Studies 2007-2008

Selected as one of 12 fellows in competitive campus-wide program intended to develop leadership potential among “outstanding” graduate students.

Created campus-wide website and coordinated spring 2008 workshop:
 “Broader Impacts 101: Strategies for integrating your research with educational outreach.”

Animal Behavior Graduate Group, UC Davis

Peer academic advisor 2007-2008
 Advising committee 2007-2008
 Recruitment subcommittee Spring 2007
 Core course planning committee 2005-2006

UC Davis representative

Colloquium on Civic Engagement and Graduate Study at Research Universities, San Jose, CA April 2007

Student representative to Conservation Biologist search committee

Department of Ecology and Evolutionary Biology, Brown University Spring 2000

Undergraduate Mentoring

Meaghan Hayes 2007-2008
 Robert Hua 2007-2008
 Dallas Wentz 2004-2008
 Mentor, Women in Science and Engineering program, Brown University 1999-2000

COMMUNITY ENGAGEMENT

Founder and coordinator, “Watch It, Don’t Squash It” 2003-2007

Organized graduate students to form science education group. Created hands-on, invertebrate-focused experiments covering animal behavior, ecology, conservation, and the scientific method; communicated with university collections managers and school officials:

Coordinated twenty 3-hour visits to S.T.A.R.T. program for at-risk youth, Sacramento, CA (2003-2006) and two visits to 3rd grade Spanish immersion classrooms, Cesar Chavez Elementary, Davis, CA.

Web site: <http://scb.ucdavis.edu/WIDSI/widsi.htm>

Education coordinator, Society for Conservation Biology, Davis chapter 2006-2007
Coordinated endangered animal poster exchange project between Bolivian sister chapter and 4th grade Spanish immersion science classes at Cesar Chavez Elementary.

Providence Science Outreach 2000-2001
Developed ecology-themed activities and lessons for 5th grade classroom in Providence, RI.

PRESENTATIONS

Leonard, A.S. Sex differences in the form and function of responses to mating displays August 2008
Oral presentation: International Society for Behavioral Ecology, Ithaca, New York

Leonard, A.S. and A.V. Hedrick. Sex-based differences in species discrimination: Single vs. multiple cues.
Oral presentation: Animal Behavior Society meeting, Burlington, Vermont, July 2007
Oral presentation: Animal Behavior Research Conference, UC Davis February 2007

Leonard, A.S. and A.V. Hedrick. Do female field crickets use multiple cues in mate choice?
Oral presentation: Animal Behavior Society meeting, Snowbird, Utah August 2006

Leonard, A.S. and A.V. Hedrick. Factors affecting mating selectivity among female field crickets.
Poster: Animal Behavior Society meeting, Snowbird, Utah August 2005

Leonard A.S. and D. H. Morse. Dragline preferences of male crab spiders.
Poster: Animal Behavior Society meeting, Oaxaca, Mexico June 2004
Oral presentation: Dept. of Ecology and Evolutionary Biology, Brown University May 2001

PROFESSIONAL SOCIETIES

Animal Behavior Society
International Society for Behavioral Ecology
Society for Conservation Biology