



DEPARTMENT OF BIOLOGY

100 Saint Anselm Drive, Manchester, New Hampshire 03102-1310
Phone: 603-641-7163 • llaplante@anselm.edu

LORI HOSAKA LAPLANTE

EDUCATION

- Ph.D., University of Connecticut, Dept. of Ecology and Evolutionary Biology, 2005.
- B.S., California State University Long Beach, Major: Marine Biology (minor: chemistry), 1996.

TEACHING EXPERIENCE

- 2009 – Present. **Associate Professor**, Saint Anselm College, Department of Biology.
- 2006 – 2009. **Assistant Professor**, Saint Anselm College, Department of Biology.
 - Animal Behavior (*New course as of Fall 2008)
 - Biostatistics (Fall 2007, 2008)
 - Evolutionary Biology (Spring 2007, 2008)
 - Field Studies in Tropical Biology (*New course in Summer 2007; 2008)
 - Vertebrate Zoology (Fall 2007, 2008)
- 2005 – 2006. **Instructor**, Saint Anselm College, Department of Biology
 - Biosphere at Risk (Spring 2006)
 - General Biology for majors (Fall 2006)
- 2004. **Teaching Assistant**. Shoals Marine Laboratory, Appledore Island, ME. Summer course: Diversity of Fishes.
- 2003. **Co-Instructor**. University of Connecticut. Fall course: Current Topics in Ecology and Evolution.
- 2003, 2000. **Teaching Assistant**. University of Connecticut. Courses: General Biology (non-majors), Marine Biology.
- 2002. **Instructor**. Connecticut Museum of Natural History. Course: Tidepool Workshop.
- 2001. **Scuba Instructor**. University of Connecticut. Course: Open Water Certification Course.

RESEARCH EXPERIENCE

- 2008 – present. Saint Anselm College. Mating behavior between two phenotypes of *Plethodon cinereus*.
- 2007. **Faculty Advisor**. Shoals Marine Laboratory, Appledore Island, NH. “Haul-out patterns of harbor and gray seals in the southern Gulf of Maine”.
- 2006-2007. **Faculty Advisor**. Shoals Marine Laboratory, Appledore Island, NH. “Antipredatory strategies of an aeolid nudibranch in response to a fish predator”. In collaboration with Dr. Brian Penney.
- 2002 – 2005. University of Connecticut. “The reproductive ecology of two wrasses: a focus on reproductive variation in females”.
- 2004. **Graduate Research Fellow**. Lizard Island Research Station, Queensland, Australia. Investigating inter-population variation of a female nuptial signal in the pink-belly wrasse. Dissertation research.

- 2002. **Graduate Research Fellow**. Tropical Biosphere Research Station, University of the Ryukyus, Okinawa, Japan. Investigating the influence of social environment on a nuptial signal displayed by female pink-belly wrasse.
- 2000 – 2002. **Graduate Research Assistant**. University of Connecticut. Estimating the annual fecundity for a multiple spawner, tautog (*Tautoga onitis*) through captive and field experiments in Long Island Sound, Connecticut. Dissertation research.
- 1997. **Research Assistant**. Lizard Island Research Station, Queensland, Australia.
- 1996. **Research Assistant**. Hawai'i Institute of Marine Biology: jointly with California State University at Long Beach.
- 1995 – 1996. **Laboratory Research Assistant**. Southern California Coastal Water Research Project.
- 1995. **Intern**. Southern California Coastal Water Research Project.
- 1993 – 1994. **Naturalist/Educator**. Southern California Marine Institute.
- 1992 – 1993. **Laboratory Technician**. MEC Analytical Inc.

PUBLISHED ARTICLES

- 2009. (Submitted). B.K. Penney, **L.H. LaPlante**, J.R. Friedman, and M. Ocasio-Torres. The relative role of nematocysts in nudibranch defense.
- 2007. **L.H. LaPlante** and E. T. Schultz. Annual fecundity of Tautog in Long Island Sound: size effects and long-term changes in a harvested population. Transactions of the American Fisheries Society. 136 (6): 1520-1533.
- 2006. **L.H. LaPlante**. Length-specific brood size and winter parturition in the pink seaperch, *Zalembeus rosaceus* (Perciformes: Embiotocidae) Fishery Bulletin. 104(4): 623-625
- 2002. **L.H. LaPlante** and E. Schultz. Estimating the annual fecundity of tautog (*Tautoga onitis*) in Long Island Sound, Connecticut. Northeast Utilities Final Report.
- 1995. **L. Hosaka (maiden name)** and D. Cassell. 1995. Comparison of methods used in obtaining biomass for trawl-caught fishes. Southern California Coastal Water Research Project. Annual Report.

ARTICLES SUBMITTED OR NEAR COMPLETION

- 2009 (Submitted to Journal of Molluscan Studies). B.K. Penney, **L.H. LaPlante**, J.R. Friedman, and M. Ocasio-Torres. A non-invasive method to remove kleptocnidae for testing their role in defense.
- 2009 (In prep). **L.H. LaPlante** and M. Begley. Haul out patterns of grey and harbor seals on a small spatial scale. (Target journal: Northeastern Naturalist).

PUBLISHED ABSTRACTS

- 2006. **L. H. LaPlante**. Social environment influences a nuptial signal displayed by female *Halichoeres margaritaceus*, the Pink-belly Wrasse. Integrative and Comparative Biology. 46 (suppl.).
- 1996. **L. Hosaka**, K. Mickey, R. Flores, T. McSparren. Reproductive biology of the pink seaperch, *Zalembeus rosaceus*. Abstracts of the Southern California Academy of Science Annual Conference, Loyola Maramount, May 1996.

CONFERENCE PAPERS, POSTERS & INVITED PRESENTATIONS

(* INVITED SPEAKER)

- 2008*. "Research Options in Science". Presentation to Undeclared Students, Saint Anselm College.

- 2008*. “Research in the Biological Sciences”. Presentation to College Marketing and Enrollment Management Group, Saint Anselm College.
- 2007*. “The Ecology and Behavior of Gray and Harbor seals”. Research Experience for Undergraduates. Shoals Marine Laboratory, ME.
- 2007. “Learning behavior of *Tautoglabrus adspersus* in response to the defense mechanisms of *Flabellina verrucosa*” M. Ocasio-Torres, L.H. LaPlante, and B.K. Penney American Society of Limnology and Oceanography Conference 2007, Santa Fe, NM. *Poster Presentation*
- 2006. “Alternative Energy”, Saint Raphael Parish, Manchester, NH. Part of their Stewards of the Planet series.
- 2006. “Antipredatory strategies of an aeolid nudibranch in response to a fish predator”, M. O. Torres, L.H. LaPlante, and B.K. Penney. Society for Advancement of Chicanos and Native Americans in Science. Tampa, FL. *Poster Presentation*.
- 2006. “Geographic variation of a female nuptial signal displayed by a polygynous marine fish, the pink-belly wrasse (*Halichoeres margaritaceus*)”. Biennial Conference of the Ecology and Evolutionary Ethology of Fishes. Aliso Viejo, CA.
- 2006*. “Research in Marine Biology”. Saint Anselm College. 11th Annual Beta Beta Beta Induction Ceremony.
- 2005*. “Global Impact of the Fisheries Industry: Current status, issues, and outlook”. Clark University, Worcester, MA.
- 2005. “Do female pink-belly wrasses advertise sexual receptivity?”. American Academy of Underwater Scientists Annual Symposium. Mystic, Connecticut.
- 2005. “Social environment influences a female nuptial signal in the pink-belly wrasse”. Society of Integrative and Comparative Biology 2005 Annual Meeting
- 2004. “Does social environment influence the mating behavior of female *Halichoeres margaritaceus*, a polygynous reef fish?”. Northeast Ecology and Evolution Conference, University of Connecticut.
- 2003*. “The Amazing Colors of Coral Reef Fishes”. Marine Biology Undergraduate course, University of Connecticut.
- 2003. “Single red female seeks attractive dominant male: advertising availability in the fish world.” Ecology and Evolutionary Biology Graduate Student Symposium. University of Connecticut.
- 2002. “The Importance of Individual and Environmental Influences on the Reproductive Output of Tautog. New England Estuarine Research Society/Long Island Sound Resource Center joint annual meeting.
- 2002*. “Sexual Ornamentation of Females in Conventional Mating Systems”. Tropical Biosphere Research Station, University of the Ryukyus, Okinawa, Japan.
- 2002*. “Estimating the Annual Fecundity of Tautog in Long Island Sound”. Annual Scientific Meeting. Dominion Power Station, Waterford, CT.
- 2002. “Estimating the Annual Fecundity of Tautog in Long Island Sound”. Ecology and Evolutionary Biology Graduate Student Symposium. University of Connecticut.
- 2002*. “Studying female ornamentation in wrasses: graduate research in the Department of Ecology and Evolutionary Biology”. Topics in Modern Biology (Undergraduate Honors). University of Connecticut.
- 2001. “Estimating the Annual Fecundity of Tautog in Long Island Sound”. American Society of Ichthyologists and Herpetologists Annual Meeting, Pennsylvania
- 2001*. “Graduate research in marine ecology”. Topics in Modern Biology. University of Connecticut.

INTERVIEWS

- 2008. “Seals of the Gulf of Maine”. Episode for *Windows to the Wild*, New Hampshire Public Television.
- 2007. Undergraduate Research Scholar Program. Saint Anselm College, Podcast and *Crier* article
- 2007. Alternative Energy Vehicles. Saint Anselm College *Crier* article.

FELLOWSHIPS, GRANTS & AWARDS RECEIVED

- 2008. **Saint Anselm College**. Action item awarded for 08-09 and 09-10 academic years: Undergraduate Research Scholar Program (~\$18,200)
- 2007: **Saint Anselm College**. Summer Research Grant for summer 2008 (\$6600+)
- 2005: **University of Connecticut** Doctoral Dissertation Fellowship (\$2000); EEB Endowment Award (\$500)
- 2004: **National Science Foundation/Australian Academy of Science** EAPSI Fellowship to Australia (\$3000 stipend, \$2500 living expenses, airfare); **National Undersea Research Center** Summer Research Grant (\$1000); **Explorer’s Club** Exploration award (\$1200); **EEB** Endowment award* (\$600)
- 2003: **University of Connecticut** Summer Fellowship (\$1550); **EEB** Endowment award* (\$800); **National Science Foundation /National Institute of Health** East Asia Summer Institutes Fellowship, Taiwan (withdrawn to accept alternative funding to Japan)
- 2002: **National Science Foundation** EASI Fellowship to Japan (\$3000 stipend, \$2500 living expenses, airfare); **University of Connecticut** (\$1500); **EEB** Endowment award* (\$600)
- 2001-2002: **Northeast Utilities** Grant (\$25,000): Eric Schultz (PI) and L. LaPlante (Co-PI); University of Connecticut (\$1500); EEB Endowment award* (\$300)
- 2000-2001: **Northeast Utilities** Grant (\$25,000): Eric Schultz (PI) and L. LaPlante (Co-PI)

**EEB Endowment funds include John Rankin, Jr, Ralph Wetzel, and Walter R. Whitworth Endowment awards provided by Department of Ecology and Evolutionary Biology at the University of Connecticut and The Connecticut State Museum of Natural History*

CURRENT PROFESSIONAL AFFILIATIONS & SERVICE

- Animal Behavior Society: Member
- Beta Beta Beta Biological Society: Lifetime member
- Divers Alert Network: Member
- Society for Integrative and Comparative Biology: Member
- *Copeia*: Reviewer
- Prentice Hall Publishers: Reviewer
- Scientific Alliance against Undersecretary of Commerce for Oceans and Atmosphere’s merging of National Undersea Research Program and Ocean Exploration Program: Participant in campaign
- Active Shock Incorporated: Board of Advisors, member

CERTIFICATIONS

- Six SCUBA Certifications: Master/Supervisor, Nitrox, Scientific Diving, Rescue, Advanced, Open-water
- American Red Cross First Aid and CPR
- Ashtanga Yoga Teacher