EDUCATION

Ph.D. Tufts University Medford, MA

2007

Biology

Advisor: Jan A. Pechenik, Ph.D.

Thesis: Effects of encapsulated development and larval dispersal on the susceptibility to phenol and copper for marine gastropods (*Ilyanassa obsoleta*, *Nucella lapillus*, *Crepidula fornicata*, and *C. convexa*)

Post-baccalaureate coursework

Harvard Extension School, Cambridge, MA

Comparative Vertebrate Anatomy 1996 Invertebrate Biology 1992

Shoals Marine Laboratories, Portsmouth, NH

Marine Biology for Teachers 1994

University of Massachusetts, Boston, MA

Critical Thinking 1990

B.S. Massachusetts Institute of Technology, Cambridge, MA 1984

Biology

TEACHING EXPERIENCE

Northeastern University, Boston, MA

Fall 2008-present

Biology Capstone teaching professor

Responsible for teaching 6 sections of the Biology Capstone course, a requirement for all Biology majors. The majority of student work focuses on developing a proposal for original research on a topic of the students' choosing.

Introduction to College for Biology Majors

Fall 2017 and 2018

Helped first-year students majoring in Biology acclimate to classes and life at Northeastern.

Energy I

Spring 2011, Summer 2012

Co-taught a course designed for pre-service and in-service K-12 science teachers and contextualized to the standards/inquiry-based curricula found in the Massachusetts state curriculum standards. Provided graduate-level content while modeling sound pedagogy, using the concept of energy to integrate interdisciplinary relationships between the biological, physical, and earth sciences.

Ecology

Summer I 2010

Taught introductory course for undergraduates covering topics such as population dynamics, species interactions, population genetics, the development of communities, and the structure and function of ecosystems.

Massachusetts College of Art and Design, Boston, MA Fall 2007, Spring 2008 *Adjunct faculty*

Taught 2 sections of Biological Form and Function, a science requirement for art majors. Planned lectures and classroom activities to encourage critical thinking and discussion about topics in biology including genomics, evolution, and ecology.

Pine Manor College, Brookline, MA

Spring 2007, 2008

Adjunct faculty

Taught Biostatistics, a new course requirement for biology majors. Since this course was new to the college, responsibilities included creating all materials for the course. Students learned methods for data collection and experimental design, calculation and interpretation of descriptive statistics and graphs, probability, and the basics of hypothesis testing and statistical inference.

Tufts University, Medford, MA

1999-2007

Course administrator, Organisms and Populations with Lab

Administered the laboratory section of an introductory biology course (approximately 300 students). Normally coordinated by a professor, I was chosen to fill in for one semester. Responsibilities included coordination of all laboratory activities, management of academic, disciplinary, and scheduling problems, as well as training and oversight of 10 graduate student laboratory instructors and 22 undergraduate teaching assistants. Actively involved in development and implementation of three new laboratory units.

Teaching assistant, laboratory courses

Lectured and supervised experiments in laboratory sections. Guided students in the design and execution of experiments, data analysis and interpretation of results, and presentation of results in both written and oral formats.

- Cells and Organisms with Lab
- Organisms and Populations with Lab
- Experiments in Field Ecology

Teaching assistant, lecture courses

Graded exams and quizzes, assisted professor during lectures, helped students with class material, and lectured during professor's absence.

- Marine Biology
- Cell Biology
- Genetics
- Biology and the American Social Contract
- Cell Biology, Genetics, and Fundamentals of Biology

Beacon High School, Brookline, MA

1988-1999

Head of Science Department

Created original curriculum for science courses in introductory biology, ecology, marine biology, environmental science, genetics, anatomy and physiology, health, chemistry, physics, science and society, and experimental design.

Participated in and led weekly teacher workshops on diverse educational issues, such as state content standards, portfolio assessment, and team-teaching techniques.

Additional work with students included individual tutoring for students with identified learning needs.

Germaine Lawrence School, Arlington, MA

1998

Science Education Consultant

Advised science teachers on locating resources, developing original curriculum in biological and physical sciences, assessing student work, and teaching to a range of learning styles.

United States Peace Corps, Mahalapye, Botswana, Africa

1986-1987

Science teacher

Taught science curriculum for grade levels equivalent to 7th-8th. Extracurricular interaction with students: Advised science club, chess club, and coached girls' volleyball.

RESEARCH AND PROFESSIONAL EXPERIENCE

Tufts University, Medford, MA

1999-2006

Research interests and work with undergraduates

Research interests focused on evolutionary ecology of marine invertebrates; specifically how differences in developmental modes of marine snails influence pollutant sensitivity.

Advised undergraduates in proper laboratory and experimental techniques, including planning and implementation of experiments, interpretation of results, and presentation of findings in written and oral form.

Massachusetts Audubon Society, Wenham, MA

2000

Research assistant

Conducted surveys of tide pool organisms for a long-term study of changes in community structure run by conservation scientist Robert Buchsbaum, Ph.D. Measured percent coverage of sessile organisms (algal and animal) and presence/absence data for mobile animals along transects in specific tide pools in locations around Cape Ann and Nahant.

GRANTS

Tufts University 2003

Grants in Aid of Research

Conchologists of America 2004

Educational Grant

PUBLICATIONS

Pechenik, J. A., Ambrogio, O. V., & **Untersee, S.** (2010). Predation on juveniles of Crepidula fornicata by two crustaceans and two gastropods. *Journal of Experimental Marine Biology and Ecology*, 384(1-2), 91-98. doi:10.1016/j.jembe.2009.12.011

Pechenik, J. A., Hsieh, J., Owara, S., Wong, P., Marshall, D., **Untersee, S.**, & Li, W. (2001). Factors selecting for avoidance of drilled shells by the hermit crab Pagurus longicarpus. *Journal of Experimental Marine Biology and Ecology, 262*(1), 75-89. doi:Doi 10.1016/S0022-0981(01)00284-2

Untersee, S., & Pechenik, J. A. (2007). Local adaptation and maternal effects in two species of marine gastropod (genus Crepidula) that differ in dispersal potential. *Marine Ecology Progress Series*, 347, 79-85. doi:10.3354/meps07063

PROFESSIONAL PRESENTATIONS

Society of Environmental	Toxicology and	Chemistry/NAC	2005
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Burlington, VT

The 6th International Larval Biology Conference 2004

Hong Kong University of Science and Technology, Hong Kong

The 32nd Annual Marine Benthic Ecology Meeting 2003

University of Connecticut, Groton, CT

CERTIFICATIONS, LICENSES AND PROFESSIONAL ORGANIZATIONS

Massachusetts Department of Education 1995-2010

Teaching license, General science, 9-12

Professional Association of Diving Instructors (PADI) 1997-present

Basic Open Water, Medic First Aid and CPR, Advanced Open Water Plus