Curriculum Vitae Steven R. Untersee

EDUCATION

Ph.D.	Tufts University Medford, MA Biology <i>Advisor</i> : Jan A. Pechenik, Ph.D. <i>Thesis</i> : Effects of encapsulated development and larval dis susceptibility to phenol and copper for marine gastropods (<i>Nucella lapillus, Crepidula fornicata</i> , and <i>C. convexa</i>)	-		
Post-graduate				
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 Biology	1984		

TEACHING EXPERIENCE

Northeastern University, Boston, MA	Fall 2008-present
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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.

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.

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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

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

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

Spring 2007, 2008

1999-2007

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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. 1998 Germaine Lawrence School, Arlington, MA 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' vollevball.

RESEARCH AND PROFESSIONAL EXPERIENCE

Tufts University, Medford, MA

Beacon High School, Brookline, MA

Head of Science Department

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

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.

1988-1999

1999-2006

2000

GRANTS

Tufts University Grants in Aid of Research	2003
Conchologists of America Educational Grant	2004

PUBLICATIONS

Untersee, **S**. and J.A. Pechenik. 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.

Pechenik, J.A., J. Hsieh, S. Owara, P. Wong, D. Marshall, **S. Untersee**, W. Li, 2001. Factors selecting for avoidance of drilled shells by the hermit crab *Pagurus longicarpus*. *Journal of Experimental Marine Biology and Ecology* 262: 75-89.

PROFESSIONAL PRESENTATIONS

Society of Environmental Toxicology and Chemistry/NAC Burlington, VT	2005			
The 6 th International Larval Biology Conference Hong Kong University of Science and Technology, Hong Kong	2004			
The 32nd Annual Marine Benthic Ecology Meeting University of Connecticut, Groton, CT	2003			
CERTIFICATIONS, LICENSES AND PROFESSIONAL ORGANIZATIONS				
Massachusetts Department of Education Teaching license, General science, 9-12	1995-2010			
Professional Association of Diving Instructors (PADI)	1997-present			

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