
CURRICULUM VITAE
CHELSEA L. WOOD

Ph.D. student, Hopkins Marine Station, Stanford University
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EDUCATION

Stanford University, Hopkins Marine Station, Ph.D. student in Biology

- Stanford Graduate Fellow
- Advised by Fiorenza Micheli
- Ecology, Evolution, and Population Biology track

Stanford, CA and
Pacific Grove, CA
Jul 2008 – present

Dartmouth College, A.B. in Environmental and Evolutionary Biology

- *Summa cum laude*, Phi Beta Kappa, High Honors in the major
- Major GPA 3.90, Cumulative GPA 3.88
- **Honors thesis:** “Effects of the trematode *Cryptocotyle lingua* on the behavioral ecology of *Littorina littorea* in the New England rocky intertidal zone,” advised by Kathryn L. Cottingham (Dartmouth College) and James E. Byers (University of New Hampshire)

Hanover, NH
Sept 2002 – Jun 2006

RESEARCH INTERESTS

Marine conservation biology, community ecology, ecosystem-based ocean management, marine fisheries, parasitology, statistics, ecological modeling

PUBLICATIONS

Wood CL, Byers JE, Cottingham KL, Altman I, Donahue MJ, and Blakeslee AMH. 2007. Parasites alter community structure. *Proceedings of the National Academy of Sciences of the USA* **104**(22): 9335–39.

Wood CL and Ferguson K. 2008. Editorial: Beyond the Frontier. *Frontiers in Ecology and the Environment* **6**(5): 171.

PROFESSIONAL EXPERIENCE

***Frontiers in Ecology and the Environment*, Ecological Society of America,**
Assistant Editor

Managed peer review and manuscript submission systems. Worked with authors to edit accepted manuscripts and proofs for publication. Commissioned original pieces for publication. Wrote news articles for *Dispatches* section. Coordinated *Write Back* and *Two Views* sections. Recorded and produced monthly podcasts.

Washington, DC
Dec 2006 – Jun 2008

Dartmouth College Department of Biological Sciences, Undergraduate
Honors Thesis Student

Continued research begun during REU Fellowship (see below), performing laboratory experiments and statistical analyses to address the relationship between *Littorina littorea* and its trematode parasites. Submitted an 80-page report of findings, gave a public presentation, and defended work before a committee of four advisors.

Hanover, NH
Aug 2005 – Jun 2006

PROFESSIONAL EXPERIENCE (CONTINUED)

- National Science Foundation and Shoals Marine Laboratory, *Research Experiences for Undergraduates (REU) Fellow***
Developed and executed experiments to investigate behavioral and physiological ecology of infection by trematode parasites in the common periwinkle, *Littorina littorea*.
Shoals Marine Laboratory,
Appledore Island, ME
Jun – Aug 2005
- Dartmouth College Department of Biological Sciences, *Academic Study Abroad in Tropical Biology Participant***
Participated in a foreign study program taught by Dartmouth professors. In collaboration with other students, developed an independent research project at each field station visited and presented results in oral presentations and written reports.
Costa Rica and Jamaica
Jan – Mar 2005
- University of New Hampshire Department of Zoology, *Research Assistant***
Performed field sampling, sample analysis, and data entry and analysis for an investigation addressing the potential use of trematode parasite communities as bioindicators of estuarine ecosystem degradation in the laboratory of Professor James E. Byers. An independent project examined effects of estuarine contamination on trematode transmission processes.
Durham, NH
Sept – Dec 2004
- Dartmouth College Department of Biological Sciences, *Presidential Scholars Research Assistant***
Conducted field sampling and sample analysis for an investigation of the dynamics of disturbance and recovery in lake zooplankton communities in the laboratory of Professor Kathryn L. Cottingham.
Hanover, NH
Jun – Sept 2004
and *Mar – Jun 2005*
- Dartmouth College Department of Biological Sciences, *Research Assistant***
Performed laboratory experiments to examine interactions within communities of Southern pine beetles (*Dendroctonus frontalis*), their phoretic mites, and associated mutualistic and antagonistic fungi in the laboratory of Professor Matthew P. Ayres.
Hanover, NH
Jan – Jun 2004
- Dartmouth College Thayer School of Engineering, *Women in Science Project (WISP) Research Assistant***
Conducted experiments to investigate mechanisms of adsorption of enzyme to plant biomass during the production of fuel ethanol in the laboratory of Professor Charles Wyman.
Hanover, NH
Jan – Jun 2003

TEACHING EXPERIENCE

- Stanford University Department of Biology, *Teaching Assistant***
• Biology 30: Frontiers in Marine Science
Stanford, CA
Sept – Dec 2008
- Dartmouth College Department of Biological Sciences, *Undergraduate Teaching Assistant***
• Biology 14: Ecology and Evolution
• Biology 53: Aquatic Ecology
• Biology 33: Animal Behavior
Hanover, NH
Sept – Dec 2003
Sept – Dec 2005
Mar – Jun 2006
- Dartmouth College Academic Skills Center, *Introductory Statistics Tutor***
Provided one-on-one tutoring to an undergraduate student in an introductory statistics course.
Hanover, NH
Jun – Aug 2004

INVITED PRESENTATIONS

- 2006 “Can parasites alter a community via effects on hosts? Influence of trematode parasitism on growth and grazing in *Littorina littorea*,” poster presentation at the American Society of Limnology and Oceanography (ASLO) Ocean Sciences Meeting, 20–24 February 2006, Honolulu, HI.

CONTRIBUTED PRESENTATIONS

- 2008 “Parasites alter community structure.” Oral presentation at Stanford–UC Santa Cruz Species Interactions Workshop, Santa Cruz, CA.
- 2006 “Can parasites alter autotroph community structure through effects on grazers?” Public oral presentation of thesis research, Department of Biological Sciences, Dartmouth College, Hanover, NH.
- 2006 “Can parasites alter autotroph community structure through effects on grazers?” Poster presentation at the Fifteenth Annual Karen E. Wetterhahn Science Symposium, Hanover, NH.
- 2006 “Can parasites alter community structure through effects on hosts? Influence of trematode parasitism on grazing in *Littorina littorea*.” Oral presentation at the Benthic Ecology Meeting, 8–12 March 2006, Quebec City, QC.
- 2005 “Behavioral and physiological ecology of infection by trematode parasites in *Littorina littorea*.” Poster presentation at the 191st Meeting of the Dartmouth Alumni Council Undergraduate Research Poster Session, Hanover, NH.
- 2005 “Behavioral and physiological ecology of infection by trematode parasites in *Littorina littorea*.” Poster presentation at the Third Annual Dartmouth College Undergraduate Research Poster Session, Hanover, NH.
- 2004 “Influence of environmental variables on gastropod–trematode interactions.” Poster presentation at the Second Annual Dartmouth College Undergraduate Research Poster Session, Hanover, NH.
- 2003 “Mechanisms of BSA and cellulase adsorption to aqueous lignocelluloses.” Poster presentation at the Twelfth Annual Karen E. Wetterhahn Science Symposium, Hanover, NH.

SERVICE

- Ecological Society of America, 2008 Annual Meeting, Judge** Milwaukee, WI
Aug 2008
Judged ten student oral and poster presentations under consideration for the Best Undergraduate Presentation Award.
- Dartmouth Undergraduate Journal of Science, Managing Editor** Hanover, NH
Mar 2005 – Jun 2006
Responsible for content of a peer-reviewed journal of undergraduate research and science writing. Editorial Board Member and Staff Writer from January 2004 onward.
- Dartmouth College Women in Science Project, Peer Mentor** Hanover, NH
Sept 2005 – Jun 2006
Provided academic and personal support to two first-year women considering majors and careers in biology. Assisted with class selection and planning for fulfillment of major and distributive requirements, foreign study, and summer internships, provided advice on study skills, discussed future plans.
- Cornell Cooperative Extension and the Riverhead Foundation for Marine Research and Preservation, Education Volunteer** Riverhead, NY
Jun – Sept 2003
Gave talks to the public on the ecology of local marine systems and marine environmental protection issues pertinent to Long Island.

HONORS

Graduate

- 2008 Ecological Society of America Outstanding Student Research Award
- 2008 Honorable Mention, National Science Foundation Graduate Research Fellowship Competition

Undergraduate

- 2005–6 Rufus Choate Scholar (top 5% of class)
- 2006 Honorable Mention, Student Oral Presentation Competition, Benthic Ecology Meeting 2006, Quebec City, QC
- 2006 Induction into the Phi Beta Kappa Society
- 2006 Induction into Sigma Xi Scientific Research Society
- 2006 Dartmouth College Christopher G. Reed Biologist Award
- 2006 Second Prize, Student Poster Competition, 8th Annual REUs-to-ASLO Scholarship Activity, American Society of Limnology and Oceanography Ocean Sciences Meeting 2006, Honolulu, HI
- 2006 Designation as Presidential Scholar
- 2006 Academic citation, Ecological Modeling
- 2006 Educational Testing Service Recognition of Excellence for outstanding performance on the PRAXIS II Biology Content Knowledge test (top 15% of all test takers in previous years)
- 2005 Academic citation, Introductory Marine Biology and Ecology
- 2005 Academic citation, Physiological Ecology
- 2005 Academic citation, Introduction to Cultural Anthropology
- 2004–05 Rufus Choate Scholar (top 5% of class)
- 2004 Academic citation, Animal Behavior
- 2003–06 Membership in National Society of Collegiate Scholars
- 2003–04 Rufus Choate Scholar (top 5% of class)
- 2002–03 Third honor group (top 35% of class)
- 2002 Academic citation, Drawing I
- 2002 Nomination, Albert I. Dickerson 1930 Freshman Essay Prize

GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS

Graduate

- 2008 Stanford Department of Biology/Vice Provost for Graduate Education SCORE Grant (\$1000)
- 2008 Stanford Graduate Fellowship, Stanford University

Undergraduate

- 2005 John Sloan Dickey Center Undergraduate Research Grant, Dartmouth College
- 2005 Anna Thompson Burnap Undergraduate Research Grant, awarded by Dartmouth College Office of the Dean of the Faculty
- 2005 National Science Foundation Grant administered by the Center for Great Lakes Studies of the University of Wisconsin–Milwaukee, awarded to support attendance at the 2006 American Society of Limnology and Oceanography (ASLO) Ocean Sciences Meeting
- 2005 Dartmouth College Department of Biological Sciences Undergraduate Honors Thesis Grant
- 2005 National Science Foundation Research Experiences for Undergraduates (REU) Fellowship, Shoals Marine Laboratory, Appledore Island, Maine
- 2004–05 John L. Steffens '63 Presidential Scholars Research Assistantship, awarded by Dartmouth College Office of the Dean of the Faculty
- 2004 Waterhouse Independent Research Grant, awarded by Dartmouth College Office of the Dean of the Faculty
- 2003–06 Paulson Family Scholarship, an endowed scholarship granted by Henry Paulson '68, Dartmouth College

CONTRIBUTIONS TO *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* DISPATCHES SECTION

Wood CL. 2007. Commercial ocean-fertilization trial moves forward. *Front Ecol Environ* **5(6)**: 291.

Wood CL. 2007. New to science, but not to consumers. *Front Ecol Environ* **5(3)**: 118.

PODCASTS PRODUCED (www.esa.org/podcast)

Beyond the Frontier, September 2008: Of Mantas and Men.

Beyond the Frontier, June 2008: Ecologists Connect the Dots.

Beyond the Frontier, May 2008: Mapping Mussels.

Beyond the Frontier, April 2008: Seeing the Forest for the Liverworts.

Beyond the Frontier, March 2008: Evolving Curricula in US High Schools?

Beyond the Frontier, February 2008: In Want of Water.

CONTRIBUTIONS TO THE *DARTMOUTH UNDERGRADUATE JOURNAL OF SCIENCE*

Wood CL. 2006. Responses to some common, misguided criticisms of biological evolution. *DUJS* **8(2)**: 18–25.

Carey C and **Wood CL.** 2005. Effects of bauxite on marine invertebrate populations in Discovery Bay, Jamaica. *DUJS* **8(1)**: 27–29.

Barger M, Carey C, Nowogrodzki A, and **Wood CL.** 2005. Influence of light availability on delayed greening strategy in *Welfia georgii*. *DUJS* **7(3)**: 37–39.

Wood CL. 2004. Persistent bioaccumulative toxins and the science behind the Scottish farmed salmon scare. *DUJS* **7(1)**: 16–21.

Wood CL. 2004. Wastewater reclamation and groundwater recharge at Cedar Creek Wastewater Treatment Facility, Long Island, New York. *DUJS* **6(2)**: 4–8.

SPECIALIZED SKILLS

NAUI Scuba Diver Certification (2000)

American Association of Underwater Scientists (AAUS) Scientific Diver Certification (2005)

NAUI Advanced Scuba Diver Certification (2007)

PADI Rescue Diver Certification (expected August 2008)

SAS, SPSS, JMP, MATLAB

Scientific editing

Podcasting

American Red Cross Adult CPR and First Aid Certifications

MEMBERSHIP

American Association for the Advancement of Science

American Society of Limnology and Oceanography

Ecological Society of America

National Association of Science Writers

Sigma Xi Scientific Research Society