

JILL HOPE TORREGIANI
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Education

M.S. Zoology, Coral Reef Ecology, September 2001 - December 2003; Advisor: Dr. Michael P. Lesser
University of New Hampshire, Durham, NH
B.A. Zoology, Oceanography Minor
University of New Hampshire, Durham, NH, August 1994 - May 1998
Central Queensland University, Rockhampton, Queensland, Australia, February 1997 - June 1997
Studies in marine ecology

Research Experiences - University of New Hampshire, Durham, NH

Masters of Science Thesis Research, Fall 2001 - December 2003.

Investigated ultraviolet radiation-induced DNA damage in populations of Pacific corals, and the potential protective role played by UV-absorbing compounds. Research conducted at the Heron Island Research Station (Australia) and the Hawaii Institute of Marine Biology

Field Technician, Expedition aboard the R/V Seward Johnson, Bahamas, June 2003.

Organism collections via SCUBA, preservation and extraction of collected species.
Passenger in the Johnson Sea-Link submersible, Harbor Branch Oceanographic Institute.

Field Scientist, ECOHAB-GOM Project, Chemical Oceanography Lab, September 1996 - August 1998.

Researched ecology and oceanography of toxic *Alexandrium* blooms in the Gulf of Maine. Responsible for sea sample collections on oceanographic cruises, and in lab analyses to determine nutrient concentrations.

Research Assistant, January 1998 - May 1998.

Identification of New England coastal invertebrate species for invasive study.

Project Associate, Aquaculture project, Sea Grant College Program, September 1997 - May 1998.

Assessed the feasibility of sea urchin aquaculture in a caged system.

Teaching Experiences

Teaching Assistant, University of New Hampshire, Durham, NH, Human Anatomy Lab, September 2001

- December 2003. Instructed students in anatomy of human body for college course requirement. Taught six sections, to approximately 150 students, assisted in curriculum development.

Marine Science Educator, The Maritime Aquarium, South Norwalk, CT, December 2000 - June 2001.

Taught marine science programs of varied topics, primarily related to Atlantic coastal and open ocean systems, to students of all ages.

Marine Science Instructor and High School Biology Teacher, SeaCamp and Newfound Harbor Marine

Institute at SeaCamp, Big Pine Key, FL, May 1999 - January 2000. Lead groups of students in various marine science programs, relevant to the local tropical environment, which involved snorkeling and SCUBA. Taught seven-week intensive high school biology program.

Seasonal Naturalist, Seacoast Science Center, Odiorne Point, Rye, NH, March 1998 - July 1998.

Taught rocky shore ecology programs for school, youth and adult groups.

Laboratory Skills

DNA and RNA isolations, cDNA synthesis, High Performance Liquid Chromatography (HPLC), Polymerase Chain Reaction (PCR), Enzyme-Linked Immunosorbent Assay (ELISA), proficiency with PAM fluorometers

Specialized Training

Pulse Amplitude Modulation (PAM) Fluorescence Workshop, Hawaii Institute of Marine Biology, March 2003

2002 Edwin J. Pauley Summer Program in Marine Biology, Hawaii Institute of Marine Biology, Molecular Biology of Corals

2002 Coral Bleaching Workshop, Heron Island Research Station, Heron Island, Great Barrier Reef, Australia

Computer Skills

MS Office XP (Powerpoint, Word, Excel, Access database), Systat 9.0, Statview, Cricket Graph, ArcView 3.2, Internet proficiency

Certifications

Diving and Safety

NAUI basic open water SCUBA, PADI advanced open water SCUBA, NAUI Rescue Diver, NAUI Research Diver, NAUI Nitrox, DAN Oxygen First Aid, American Association of Underwater Scientists, American Red Cross: Lifeguard and Community First Aid, First Aid: When Help Is Delayed, Waterfront Lifeguarding, 1 & 2 Person adult CPR

Educational Aides

Project WET, Project Aquatic, Project WILD

Publications

Torregiani, JH, 2003. Susceptibility of *Pocillopora damicornis* and *Montipora verrucosa* to Ultraviolet Radiation: The Role of Mycosporine-like Amino Acids (MAAs). Master's Thesis, 79 pages.

Torregiani, JH, 2003. Flow morphology and susceptibility of *Pocillopora damicornis*: a preliminary investigation. In: *Molecular Biology of Corals*, E.F. Cox and T.D. Lewis (eds.). University of Hawaii, Techninal Report No. 43, pp. 100-107.

Moody, M., K. Phillips, E. Kubinec, C. Stanley, **J. Torregiani**, and J. Villeneuve, 1998. Feasibility of Urchin Aquaculture in a Caged System. National Sea Grant College Program: UNH Ocean Projects Course, 35pp. (publication # NHU-T-98-001 (UNHMP-TR-SG-98-9))

Awards

Summer Teaching Assistant Fellowship, granted by the Graduate School, UNH, Summer 2003

Sigma Xi Grants in Aid of Research, May 2002

Center for Marine Biology Travel Grant, University of New Hampshire, Spring 2002

Center for Marine Biology Research Grant, University of New Hampshire, Fall 2001

David Drew Award for best project in UNH Ocean Projects Course, sponsored by National SeaGrant College Program, 1998.