

TESS L. WALTHER

University of Maine, School of Earth and Climate Sciences
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EDUCATION AND HONORS

University of Maine

Orono, ME

M.Sc. in School of Earth and Climate Sciences- in progress

Present

Advisor: Dr. Brenda Hall

Graduate Research Assistant in the UM Glacial Geology and Geochronology Research Group

Bates College

Lewiston, ME

B.S. Geology Major, Anthropology Minor, Concentration in Physics

2015

Overall GPA: 3.3; GPA in major: 3.7

Sigma Xi: Southern Maine Chapter

Dean's List for Academic Excellence: Spring 2013 – Fall 2014

Full-Year Thesis: "Analysis of Sediment Traps in Linnévatnet, Svalbard for Reconstruction of Annual Sediment Flux and Lacustrine Processes;" Advisor: Michael Retelle

University of Victoria

Wellington, NZ

Semester Abroad

Spring 2014

Completed courses in Geologic Field Studies, History of New Zealand, and Earth Processes and Global Change

RESEACH STATEMENT

My research interests center around understanding the natural variability of the climate system and how modern climate compares to climates from the past.

GRANTS AND AWARDS

American Institute of Professional Geologists

Northeast

Section

Angelo Tagliacozzo Geological Scholarship

Spring 2015

- Awarded \$1,000 to assist in undergraduate thesis research

Bates College

Lewiston, ME

Student Research Fund

Fall 2014

- Awarded \$500 of college support to assist in travel to the University of Massachusetts Amherst to use the iTRAX core scanner for high-resolution geochemical analysis

STEM Research Grant Recipient

2014-2015

- Received funding to perform full-year undergraduate thesis fieldwork in the Lake Linné watershed in Svalbard, Norwegian High Arctic in July 2014.
- Fieldwork included glacier monitoring, collecting on-site weather and water-quality data and sediment traps, and extracting sediment cores.
- Sediment core lab analyses included visual stratigraphy, grain size, magnetic susceptibility, and X-ray diffraction.

PROFESSIONAL EXPERIENCE

Woods Hole Oceanographic Institution

Research Assistant II, National Ocean Sciences Accelerator Mass Spectrometry Facility

Woods Hole,
MA
2016-2018

- Handle daily stream of sample submissions and logging using database applications
- Preparation of solid sputter AMS samples for analysis according to specified protocols
- Assist with monthly 14C swipe sample collection and closed tube combustion preparation
- Manage archival of sample materials

The New England Aquarium

Coral Research Assistant

Boston, MA
2015-2016

- Chosen to assist Doctor Randi Rotjan and PhD candidate Liz Burmester to work on a wound-healing and regeneration experiment with a temperate star coral, which further relates to understanding the relationship between tropical corals and symbionts.
- Prepare daily meals and feed corals, provide cleaning of corals and tanks, take detailed notes and observations of corals
- Conduct additional research on other related projects and perform other duties as necessary and assigned.

Bates College Department of Geology

Teaching Assistant: Plate Tectonics

Lewiston, ME
January 2015

- Chosen for exceptional work ethic and advanced knowledge of the subject to assist students in understanding course material by answering questions from homework and lab assignments
- Organized and led review sessions before exams and quizzes
- Assisted instructor in leading lab sessions

Bates College Department of Chemistry

Environmental Chemistry Tutor

Lewiston, ME
Fall 2013

- Chosen for advanced knowledge of the subject to assist students in understanding course material by answering questions from homework and lab assignments.
- Assisted instructor in care and use of lab equipment during lab sessions
- Organized and led group review sessions before exams and quizzes

CONFERENCE PROCEEDINGS

Geological Society of Maine

Poster Presenter

Waterville, ME
April 2015

- Presented final findings on the 2013-2014 annual sediment flux and lacustrine processes in Linnévatnet, Svalbard.

Northeast Geological Society of America

Poster Presenter

Bretton Woods,
NH
March 2015

- Presented preliminary findings on the 2013-2014 annual sediment flux and lacustrine processes in Linnévatnet, Svalbard.

LEADERSHIP

Bates College Varsity Volleyball Team

2-year Captain

Lewiston, ME
2011-2015

- Cultivated and refined leadership qualities throughout four years; furthering commitment to building a strong team environment
- Developed exceptional time management skills, balancing 25+ hours per week with a full academic schedule
- Led off-season workouts, organized team meetings, and provided mentorship to underclassmen and incoming freshmen