

Curriculum Vitae

Megan O'Sadnick
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Education

University of Alaska *Fairbanks, AK, USA*

2012- Summer 2015: MSc in Geophysics. Thesis title: "In-Situ monitoring of sea ice dielectric properties and implications for the tracking of the seasonal evolution of microstructure." Advisor- Hajo Eicken. Funded by research assistantship. GPA: 3.85 out of 4.0

Outdoor Educator Semester, National Outdoor Leadership School (NOLS)

WY,NV&UT

Fall 2011: Sections in Backpacking, climbing, canyoneering, skiing, and winter camping. Focus placed on leadership skills, teaching in the outdoors, environmental science, and environmental ethics.

Wheaton College *Norton, MA, USA*

2005-2009: B.A. in Physics, Magna cum laude. GPA: 3.72 out of 4.0

Semester Abroad, University College Cork *Cork, Ireland*

Fall 2007

Employment and Activities

Field Instructor, Girls on Ice, Mt. Baker, Washington

July 13-25, 2015

One of three instructors leading a wilderness science education program for high school girls. Course is 2 weeks long and aims to introduce participants to mountaineering while also providing an intellectual challenge through various science-focused lessons and activities.

Research Assistant, Fairbanks, AK

August 2012- May 2015

Preparation, installation, collection, and analysis of geophysical data gathered on sea ice in Barrow, AK. Explored primarily the application of spectral induced polarization and cross borehole resistivity tomography techniques. Additional activities included ice coring, measurement of ice and snow properties, and meteorological observations.

Research Assistant, Icy Bay, Alaska

July 14-28, 2011

Assisted in the deployment of a passive acoustic instrument at the terminus of Yahtse Glacier as part of a project led by Erin Pettit. In addition, collected large amounts of temperature, salinity, and depth measurements throughout the fjord for application to studies of calving glaciers.

Logistics Coordinator, Kayak Adventures Worldwide, Seward, Alaska

April 2012- September 2012

Handled bookings of kayak trips and customer service. Organized logistics including scheduling of guides, water taxis, and miscellaneous details of various trips offered.

Teaching Assistant, University of Colorado, Boulder, Colorado

August 2010- May 2011

Taught, tutored and graded work for two courses in the Physics department: Physics for Everyday Life and Light and Color.

Research Assistant, Norwegian Polar Institute, Tromsø, Norway

August 2009-June 2010

Funded by Fulbright Grant. Involved in Glaciology and Geophysics sections. Poster presented at Oslo IPY Science Conference on 'Mapping the Bed Topography of Kronebreen'. Conducted field research in Svalbard-April 2010.

Research Assistant, Center for Remote Sensing of Ice Sheets, University of Kansas

June 2008-August 2008

Analyzed 12-18 GHz Radar Data from Greenland and Antarctic ice sheets

Student Researcher, Juneau Icefield Research Project

Summer 2007

Expedition across Juneau Icefield. Exposure to field of polar science. Conducted research on mass balance and supraglacial stream systems

Soil Technician, Golder Associates, Lakewood, CO

May 2007- July 2007

Conducted experiments on soil samples from engineering sites including Atterbergs, Specific Gravity, and Sieve analysis.

Presentations, Posters, and Publications

- *Paper-* "In-Situ monitoring of sea ice dielectric properties and implications for the tracking of the seasonal evolution of microstructure." To be submitted Summer 2015.
- *Presentation-* "Pore Structure and the Low Frequency Permittivity of Sea Ice". **AGU Fall Conference**, December 2014.
- *Presentation-* "X-Ray Tomography of Artificial Sea Ice Textural Endmembers for Comparison to In-situ Dielectric Permittivity Measurements". **SEG/AGU Joint Workshop**, January 2013.
- *Poster-* "Mapping the Bed Topography of Kronebreen". **IPY Oslo Science Conference**, June 2010. Update presented at **American Geophysical Union Annual Conference**, December 2010.
- *Poster-* "Analysis of 12-18 GHz Radar Data from Greenland and Antarctic ice sheets". **WAIS Divide Workshop**. October 2008
- *Article-* "Norwegian Fulbright Program Brings Polar Researchers Together with the US Ambassador to Norway". Association for Early Polar Career Scientists (APECS) Newsletter. March 2010.

Accomplishments

- NSF- East Asia and Pacific Summer Institute Grantee (New Zealand, Summer 2014)
- U.S-Norway Fulbright Grant (2009-2010)
- H.M Pastra-Landis Prize in Physics (Wheaton College 2009)
- The Villars Prize in Science (Wheaton College, 2009)
- Phi Beta Kappa (Wheaton College, 2009)
- Balfour Scholarship (Wheaton College 2005-2009)

Certifications

- Wilderness First Responder (Received May 2015, valid through May 2018)