

Scott Braddock

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Education

M.Sc., 2014 School of Earth and Climate Sciences and Climate Change Institute, University of Maine
Dissertation: *Holocene sea-surface temperatures in McMurdo Sound region, Antarctica*
Advisor: Brenda Hall

B.Sc., 2012 Geological Sciences, Central Connecticut State University
Dissertation: *Fracture patterns and paleo-overburden along a retrodeformed cross-section*
Advisor: Mark Evans

Papers under review or in preparation

Campbell, S., Arcone, S., McNeil, C., Kreutz, K.J., Braddock, S., Conway, H., Koons, P., Osterberg. Surface-based ground-penetrating radar profiles of the Juneau Icefield: Interpretation of the winter mass balance and previous year's snow horizon, *geophysics*. In Revision.

Oral presentations

Braddock, S. Holocene sea-surface temperatures in the McMurdo Sound region, Antarctica, reconstructed from isotope records of *Adamussium colbecki*. April 17, 2014. Harold W. Borns, JR. Symposium, University of Maine.

Braddock, S., and Pluta, P. Human-Climate interactions during the terminal Pleistocene near Chivay, Peru. April 18, 2014. Harold W. Borns, JR. Symposium, University of Maine.

Braddock, S., and Campbell, S. Accumulation rate variability and winter mass balance estimates using high frequency ground-penetrating radar and snow pit stratigraphy on the Juneau Icefield, Alaska. March 19, 2013. NEGSA sectional meeting. New Hampshire.

Grants and scholarships awarded

Grants

2013 Churchill Exploration Fund, University of Maine. *Terminal Pleistocene glaciation of high-altitude Andes near Chivay, Peru: Implications for tropical paleoclimate and Paleoindian-age people*. S. Braddock Lead PI, P, Pluta (Co-PI, UMaine). Funds: \$4995.00

Graduate Student Government, University of Maine. *Oxygen analysis of shell samples collected from Antarctica*. S. Braddock. Funds: \$850.00

- 2012 Graduate Student Government, University of Maine. *Travel-to-present award: Accumulation rate variability and winter mass balance estimates using high frequency Ground-penetrating radar and snow-pit stratigraphy on the Juneau Icefield, Alaska.* S. Braddock. Funds: \$635.00
- 2011 Faculty-Student Research Grant, Central Connecticut State University. Towards the characterization of three volcanic sedimentary rock units in southwestern Utah S. Braddock. M.C. Wizevich. Funds: \$500.00

Scholarships

- 2011 The Environmental Professionals of Connecticut Scholarship. Funds: \$2000.00

Field experience

- 2018 *Chilean Patagonia*. Round River Conservation Studies – Instructor/Guide
- 2017 *Chilean Patagonia*. Round River Conservation Studies – Instructor/Guide
- Lead field expeditions to remote and scientifically unexplored field sites
 - Taught classes in Conservation Biology, Restoration Ecology, Natural History and Field Methods
- Osa Peninsula, Costa Rica*
- Co-lead field expeditions in tropical rainforest field sites
 - Taught classes in Conservation Biology, Natural History and Restoration Ecology
- 2015 *Juneau, Alaska*. Juneau Icefield Research Program – Field staff and glacial guide
- Collected GPR profiles of glaciers and conducted mass balance measurements
 - Train students mountaineering and glacier-travel skills
- 2014 *Dry Valleys, Antarctica* – Research assistant
- Second season of collecting samples for masters research
- 2013 *Dry Valleys, Antarctica* – Research assistant
- Collected samples for masters research
- Andes, Peru* – Researcher
- Sampled glacial boulders and mapped glacial moraines and deposits
- 2012 *Juneau, Alaska*, Juneau Icefield Research Program – Student
- Collected and analyzed over 200km of ground-penetrating radar profiles
 - Conducted mass balance measurements at 17 pit locations
- 2011 *Pennsylvania* – Undergraduate field assistant
- Measured and sampled joint, vein, and fault orientations at over 130 localities
- Utah* – Undergraduate field assistant
- Measured stratigraphic sections and collected rock samples

Work experience

Round River Conservation Studies – Guide/Instructor 12/2016 – 06/2018

Patagonia, Chile and Osa Peninsula, Costa Rica

- Scheduled and lead program activities, including academics and biological field research
- Managed logistics and safety in remote-field location for three months for a groups of 5-10 undergraduate students
- Collaborated with local community, government agencies and park staff
- Taught undergraduate courses in applied conservation biology, biological field methods, natural history, restoration ecology and human ecology
- Guided students on expeditions to scientifically unexplored regions of Chilean Patagonia

Juneau Icefield Research Program – Field staff/Guide 06/2015 – 08/2015

Juneau, Alaska

- Staff and guide for 35 participants for 6 weeks
- Trained students mountaineering and glacier-travel skills
- Managed a remote field camp. Responsible for logistical support that included coordinating helicopters, food orders and camp maintenance
- Assisted students in mass balance studies that included digging and sampling snow pits

New England Water Science Center – USGS - Connecticut Branch (20 hours/week) 10/2014 – 12/2014

East Hartford, Connecticut

- Aid hydrologic technicians with surface-water, ground-water, and water-quality studies
- Assisted with stream-discharge measurements
- Helped to troubleshoot malfunctioning equipment such as streamgage loggers
- Survey using GNSS

Special training

- Wilderness First Responder
- CPR/AED certified
- Juneau Icefield Research Program. University of Southeast Alaska, Juneau, AK.
 - Taught mountaineering and glacier-travel skills