

NATHAN S SCHACHTMAN

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EDUCATION

University of Oregon

Eugene, OR

M.S., Geological Sciences

Sep 2017

- Coursework: Hillslope Geomorphology, Earth and Environmental Data Analysis, Soil Science, Tectonic Geomorphology, Geochemical Modeling, and GIS for Earth System Science.
- Honors: Research Excellence Award and Baldwin and Thayer Scholarships

Macalester College

Saint Paul, MN

B.A., *magna cum laude*, Geology and Geography

May 2014

- Coursework: Surface and Groundwater Hydrology, Geomorphology, Field Studies in New Zealand Geology (field course), Sedimentology/Stratigraphy, Mineralogy, Physical Oceanography, Multivariable Calculus, Chemistry I, Intro to GIS, Advanced Cartography and Geovisualization, Resource Evaluation/Planning.

RELEVANT SKILLS AND CERTIFICATIONS

Certifications: 40-hour OSHA HAZWOPER

Field: Soil pit sampling and description; sediment core extraction, logging, and description; rock collection and identification; water quality sampling; and geomorphic feature identification.

Analytical: Experienced conducting and interpreting data from X-ray diffraction, X-ray fluorescence, organic and inorganic carbon, grain size, C/N, phytolith, and cosmogenic ^{10}Be analyses.

Computer: Proficient using ESRI ArcGIS, MATLAB, R, Adobe suite, and Microsoft Office suite.

RELEVANT EXPERIENCE

Academic Editor and Alternative Text Author

Jun 2017 – Jul 2018

Enago and Second Avenue Learning

São Paulo, Brazil

- Copy edited and offered constructive feedback on earth science manuscripts for eventual submission to peer-reviewed journals.
- Authored alternative text for two introductory-level geology textbooks. Alternative text provides descriptive text for users who cannot view images in the textbook.

Research and Graduate Teaching Assistant

Aug 2015 – Jun 2017

University of Oregon

Eugene, OR

- Developed and executed a soil, sediment, and bedrock sampling plan; prepared and analyzed samples for major and trace elements, organic and inorganic carbon, and grain size analyses; interpreted data and presented results at the Fall American Geophysical Union Meeting; and prepared a manuscript for publication.
- Prepared mini lectures; gathered laboratory components; and assessed and provided feedback to students in introductory and intermediate level earth science courses.
- Teaching assistant for a two-week field camp in Oregon that focused on structural and Quaternary geology.

Laboratory Technician

Jan 2014 – Aug 2015

National Lacustrine Core Facility (LacCore)

Minneapolis, MN

- Assisted researchers and staff with sediment core extraction, processing, and sampling.
- Prepared sediment samples for C/N, organic carbon, grain size, DNA, radiocarbon, and phytolith analyses.
- Communicated directly with customers to ensure work was completed within specified deadlines.
- Maintained 90% billability.

Beltman Research Fellow*Macalester College*

Jun 2012 – Dec 2014

Saint Paul, MN

- Collected and analyzed soil and lake sediment samples from Glacier National Park for carbon/nitrogen, organic and inorganic carbon, major elements, and grain size.
- Published a first-author paper in *Quaternary Research* detailing findings and interpretations.

SCA Water Quality and Exotic Plant Team Intern*Prince William Forest Park*

May 2011 – Aug 2011

Triangle, VA

- Worked in teams of 3-6 people to test water chemistry and quality at locations throughout the park.
- Indicators measured included pH, conductivity, E. coli, macro invertebrates, and heavy metals.

PUBLICATIONS

1. **Schachtman, N.S.**, Climate Regulates stable weathering fluxes over interglacial-glacial cycles. Master's Thesis, University of Oregon, Eugene, Oregon.
2. **Schachtman, N. S.**, MacGregor, K. R., Myrbo, A., Hencir, N. R., Riihimaki, C. A., Thole, J. T., & Bradtmiller, L. I. (2015). Lake core record of Grinnell Glacier dynamics during the latest Pleistocene deglaciation and the Younger Dryas, Glacier National Park, Montana, USA. *Quaternary Research*, 84(1), 1–11. <http://doi.org/10.1016/j.yqres.2015.05.004>