

University of Maine
School of Earth and Climate
Sciences

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University of Maine, Orono, School of Earth and Climate Sciences

Pursuing Master of Science, expected graduation May 2018
National Science Foundation Graduate Research Fellowship
Advisor: Dr. Gordon Hamilton

Dickinson College, Carlisle, Pennsylvania, Class of 2016

Bachelor of Science in Earth Sciences, *with Honors*
Cumulative GPA 3.95/4.00

Graduated Summa Cum Laude and Dean's List

Honors thesis title: *Short-term Climate Cycles, Recent Climate Changes, and Volcano-Ice Hazards: Nevado Coropuna, Arequipa, Peru*

Thesis advisor: Dr. Benjamin Edwards

Research and Field Experience

- 2016 Geologic and GPS mapping in Iceland at Vatnsskarð and Undirhliðar quarries of subglacial pillow lavas
- 2015 Geologic and GPS mapping, lake sediment core, organized and executed expedition to understand volcanic geology and glacial evolution Coropuna, Peru [Co-leader]
- 2014 Geologic and GPS mapping, field investigations of sub-glacial lava formation at Edziza and Kima'Kho volcanoes, Northern British Columbia, Canada
- 2014 Regional Geology and Glaciers, Exploratory trip, Amasalik, Greenland and Reykjavik, Iceland
- 2014 Interviews and field research on the 2013-2015 Review of the 2°C global warming limit at the 20th Conference of the Parties to the UNFCCC, Lima, Peru
- 2013 Geologic and GPS mapping, spit progradation and sediment transport at Cape Henlopen, DE
- 2013 Interviews, GIS mapping, and Archaeological fieldwork, examining climate change in archaeological record and human adaptation, Taraco Archaeology Project, Lake Titicaca, Bolivia

Awards and Honors

- 2016 NSF Graduate Research Fellowship (\$138,000.00)
- 2016 Dickinson Research and Development: Volcano-Ice Interactions in Iceland. B. Edwards (PI), **W. Kochtitzky** (Co-PI). \$7,490.15
- 2016 Dickinson Baird Sustainability Fellow for high achievement in sustainability
- 2015 Dickinson Research and Development: Sediments as a climate record in a hydrologically closed basin, Coropuna, Peru. B. Edwards (PI), **W. Kochtitzky** (Co-PI). \$8,067.20
- 2015 Phi Beta Kappa Honor Society
- 2015 Dan and Betty Churchill Student Research Prize
- 2015 The Robert Allan Jansen Memorial Student-Faculty Research Prize
- 2015 Patton Prize, for research and highest GPA at Dickinson College
- 2015 Henry Hanson Research Prize for Excellence in Geology
- 2014 EPA-Greater Research Opportunities Fellowship (alternate awardee status)
- 2012 Alpha Lambda Delta Honor Society

- 2012 - 2016 Benjamin Rush Merit Scholarship from Dickinson College
- 2012 - 2016 Dickinson College Dean's list (every semester except fall 2015)
- 2013 Dickinson College Sustainability Award, for significant sustainability achievement
- 2012 Honors in Science from University School of Nashville (High School)
- 2011 Eagle Scout Award, Boy Scouts of America, Nashville, TN

Select Leadership and Involvement

- 2013 to 2016 Presidential Commission for Environmental Sustainability: Student member
- 2013 to 2016 Sustainable Investment Task Force/Group: Student member
- 2013 to 2016 Geology Club of Dickinson: President, Treasurer, and Secretary
- 2013 to 2016 Dickinson College Outing Club: President, Treasurer, and Secretary

Select Publications

- Edwards, B., Pollock, M., **Kochtitzky, W.** and Engen, C. 3-D Mapping Of Quarry Walls To Constrain The Internal Structure Of A Glaciovolcanic Tindar, Sw Iceland. Geological Society Of America Abstracts With Programs. Vol. 48, No. 7.
- Thompson, A., Orden, M., Lembo, C., Wallace, C., Kumpf, B., Heineman, R., Engen, C., Edwards, B., Pollock, M. and **Kochtitzky, W.** Physical Characteristics Of Glaciovolcanic Pillow Lavas From Undirhlidar, Sw Iceland. Geological Society Of America Abstracts With Programs. Vol. 48, No. 7.
- Heineman, R., Lembo, C., Engen, C., **Kochtitzky, W.**, Wallace, C., Orden, M., Thompson, A., Kumpf, B., Edwards, B. and Pollock, M. New Insights On The Formation Of Glaciovolcanic Tindar Ridges From Detailed Mapping Of Undirhlidar Ridge, Sw Iceland. Geological Society Of America Abstracts With Programs. Vol. 48, No. 7.
- Wallace, C., Kumpf, B., Heineman, R., Lembo, C., Orden, M., Thompson, A., Engen, C., **Kochtitzky, W.**, Pollock, M., Edwards, B. and Hiatt, A. Geochemical Constraints On The Magmatic System And Eruptive Environment Of A Glaciovolcanic Tindar Ridge From Undirhlíðar, Sw Iceland. Geological Society Of America Abstracts With Programs. Vol. 48, No. 7.
- Diamond, S., Plascencia, E., **Kochtitzky, W.**, Edwards, B., Marino, J. and Strock, K. E. Diatom Community Shifts in Response to Volcanic Activity and Long-term Climatic Change in a High Altitude South American Lake. SS17, #24 at Association for the Sciences of Limnology and Oceanography in Sante Fe, NM, 5 – 10 June, 2016.
- Kochtitzky, W.**, Edwards, B., Mariño, J. and Manrique, N. 2015. Peruvian Tropical Glacier May Survive Longer Than Previously Thought: Landsat Image Analysis of Nevado Coropuna Ice Cap, Peru. C21B-0729 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14 – 18 Dec.
- Kochtitzky, W.**, Edwards, B., Mariño, J. and Manrique, N. 2015. Tropical Ice-Cap Found to be Melting Slower, the Case of Nevado Coropuna Volcanic Complex, Southern Peru. Geological Society of America Abstracts with Programs. Vol. 47 No. 7.
- Edwards, B., and **Kochtitzky, W.** 2015. Assessing the Global Potential for Volcano-Ice Interactions. Geological Society of America Abstracts with Programs. Vol. 47 No. 7.
- Plascencia, E., **Kochtitzky, W.**, Strock, K., Edwards, B., Mariño, J. and Manrique, N. 2015. Analysis of Sediment and Ash from Lago Pallarcocha, Nevado Coropuna, Peru. Geological Society of America Abstracts with Programs. Vol. 47 No. 7.
- Franceschi, J. O., Reinthal, M., Pollock, M., Edwards, B., Plascencia, E. and **Kochtitzky, W.** 2014. Preliminary Geochemical Constraints on the Evolution of Pillow Ridge Tindar, Edziza Volcanic

Current Certifications

- Wilderness First Responder (WFR), 2013 to present
- Adult/Child CPR, AED, and Airway, 2013 to present

Software experience

ArcGIS, ArcGIS Model Builder, ArcGIS Online, ENVI, Photoscan by AgiSoft, Tremble Pathfinder Office, TerraSync, MatLab, EdGCM, WordPress, Piktochart, Photoshop, Google Earth, Microsoft Office