

Brendan Reilly

College of Earth, Ocean and Atmospheric Sciences
Oregon State University

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Last update: March 12, 2019

EDUCATION

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences

Ph.D. Ocean, Earth, and Atmospheric Sciences (Geology & Geophysics), June 2018

Thesis: Deciphering Quaternary geomagnetic, glacial, and depositional histories using paleomagnetism in tandem with other chronostratigraphic and sedimentological approaches

Graduate Certificate in College and University Teaching, December 2016

Advisor: Joseph Stoner

Montclair State University, Department of Earth and Environmental Studies

M.S. Geoscience, May 2013

Thesis: Climate evolution of the Antarctic Peninsula over the last 1,000 years: An environmental magnetism analysis of two high resolution sediment cores

Advisor: Stefanie Brachfeld

Boston College, Carroll School of Management

B.S. Management (Marketing), Environmental Studies Minor received May 2008,
Magna Cum Laude

RELEVANT EXPERIENCE

2019 (start Dec. 1) Institutional Postdoc, Scripps Institution of Oceanography, UC San Diego

Topic of Focus: Southern Ocean paleomagnetic stratigraphy and Antarctic glacial history

2018-2019 Research Associate (Postdoc), Oregon State University

Topic of Focus: Arctic and Subarctic Sediment Paleosecular Variation

2013-2018 Research Assistant, Oregon State University

Topic of Focus: Sediment Magnetism and Non-Destructive Analysis of Arctic, North American, and Indian Ocean Holocene – Quaternary Sediments

2014-2015 Teaching Assistant, Oregon State University

OC 331: Introduction to Oceanography (TA-Robert Wheatcroft & Fredrick Prah)

Guest lectures, lab facilitation, writing quizzes, grading, office hours, review sessions

OEAS 500: Cascadia Field Trip (TA-Robert Wheatcroft)

Logistics, advising new graduate students

OEAS 520: The Solid Earth (TA-Anthony Koppers & Robert Wheatcroft)

Lab facilitation, grading, office hours, review sessions

GEO 460: Geological Oceanography (Intern-Joseph Stoner)

Guest lectures, syllabus development, assignment development, review sessions

2011-2013 Research Assistant, Montclair State University

Topic of focus: Environmental magnetic analysis and electron microscopy of Antarctic Holocene sediments

FIELDS OF INTEREST

Sediment, Environmental, and Paleo- Magnetism

Computed Tomography, X-Ray Fluorescence, and Multi-Sensor Track Scanning of Sediment Cores
Quaternary Stratigraphy, Paleoclimatology, Paleoceanography, and Geochronology

PUBLICATIONS

- Ólafsdóttir, S., **Reilly, B.**, Bakke, J., Stoner, J., Gjerde, M., van der Bilt, W., (*in press*) Holocene paleomagnetic secular variation near 80° N, Northwest Spitsbergen, Svalbard: Implications for evaluating High Arctic sediment chronologies. *Quaternary Science Reviews*. vol. 210, pp. 90-102.
- Hatfield, R., Wheeler, B., **Reilly, B.**, Stoner, J., Housen, B., (2019) Particle size specific magnetic properties across the Norwegian-Greenland Seas: Insights into the influence of source and texture on bulk magnetic records, *Geochemistry, Geophysics, Geosystems*, vol. 20.
- Kawsar, M., Manoj, M., Yoshida, K., Baxter, A., **Reilly, B.**, (*in press*) Morphological and chemical properties of microtektite grains from Bay of Bengal (IODP Expedition 354), *Society of Earth Scientists Series*.
- Reilly, B.**, Stoner, J., Hatfield, R., Abbott, M., Marchetti, D., Larsen, D., Finkenbinder, M., Hillman, A., Kuehn, S., Heil, C., (2018) Regionally consistent Western North America paleomagnetic directions from 15-35 ka: Assessing chronology and uncertainty with paleosecular variation (PSV) stratigraphy, *Quaternary Science Reviews*, v. 201, pp. 186-205.
- Weber, M., **Reilly, B.**, (2018) Hemipelagic and turbiditic deposits constrain lower Bengal Fan depositional history through Pleistocene climate, monsoon, and sea level transitions, *Quaternary Science Reviews*, v. 199, pp. 159-173.
- Reilly, B.**, Stoner, J., Selkin, P., Savian, J., Meynadier, L., (2018) Data Report: Paleomagnetic Directions for IODP Expedition 354 Hole U1451A Cores 23H and 24H, *Proceedings of the International Ocean Discovery Program Expedition 354: Bengal Fan*, vol. 354.
- Keigwin, L., Klotsko, S., Zhao, N., **Reilly, B.**, Giosan, L., Driscoll, N., (2018) Deglacial floods in the Beaufort Sea preceded Younger Dryas cooling, *Nature Geoscience*, 11, 599-604.
- Jakobsson, M., Mayer, L., Hogan, K., Mix, A., Jennings, A., Stoner, J., Eriksson, B., Jerram, K., Mohammad, R., Pearce, C., **Reilly, B.**, Stranne, C., (2018) The Holocene retreat dynamics and stability of Petermann Glacier in Northwest Greenland, *Nature Communications*, vol. 9, no. 1.
- Weber, M., Lantsch, H., Dekens, P., Das, S., **Reilly, B.**, Martos, Y., Meyer-Jacob, C., Agrahari, S., Ekblad, A., Titschack, J., (2018) 200,000 years of monsoonal history recorded on the lower Bengal Fan – strong response to insolation forcing, *Global and Planetary Change*, vol. 166, pp. 107-119.
- Balbas, A., Koppers, A., Clark, P., Coe, R., **Reilly, B.**, Stoner, J., Konrad, K., (2018) Millennial-scale instability in the geomagnetic field prior to the Matuyama-Brunhes reversal, *Geochemistry, Geophysics, Geosystems*, vol. 19.
- Reilly, B.**, Stoner, J., Wiest, J., (2017) SedCT: MATLAB™ tools for standardized and quantitative processing of sediment core computed tomography (CT) data collected using a medical CT scanner, *Geochemistry, Geophysics, Geosystems*, vol. 18.
- Hatfield, R., Stoner, J., **Reilly, B.**, Tepley, F., Wheeler, B., Housen, B., (2017) Grain size dependent magnetic discrimination of Iceland and south Greenland terrestrial sediments in the northern North Atlantic sediment record, *Earth and Planetary Science Letters*, vol. 474, pp. 474-489.
- Reilly, B.**, Natter, C., Brachfeld, S., (2016) Holocene glacial activity in Barilari Bay, west Antarctic Peninsula, tracked by magnetic mineral assemblages: Linking ice, ocean, and atmosphere, *Geochemistry, Geophysics, Geosystems*, vol. 17.
- France-Lanord, Spiess, V., Schwenk, T., Klaus, A., and the **Expedition 354 Scientists**, (2016) Bengal Fan, *Proceedings of the International Ocean Discovery Program*, vol. 354.
- Winsor, K., Carlson, A., Welke, B., **Reilly, B.**, (2015) Early deglacial onset of southwestern Greenland ice-sheet retreat on the continental shelf, *Quaternary Science Reviews*, vol. 128, pp. 117-126.

CONFERENCE ABSTRACTS (2018-2019) (* oral presentation, + invited, ^ undergraduate first author)

- Weber, M., **Reilly, B.**, Dekens, P., Lantsch, H., Das, S., Martos, Y., Selkin, P., (2019) Late Pleistocene monsoon history of the Lower Bengal Fan (IODP Expedition 354), INQUA 2019, July 25-31, 2019, Dublin, Ireland.
- Abbott, M., Anderson, L., Marchetti, D., Woods, A., **Reilly, B.**, Stoner, J., Harris, M., Brunelle, A., Power, M., (2019) A 25,000-year history of glaciation from Fish Lake, UT and the potential to extend this record through multiple glacial cycles, INQUA 2019, July 25-31, 2019, Dublin, Ireland.
- ***Reilly, B.**, Stoner J., (2018) The High Arctic geomagnetic field over the Middle to Late Holocene: Towards a reconciliation of discrepant chronologies, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Stoner, J., **Reilly, B.**, Hatfield, R., Abbott, M., Marchetti, D., Larsen, D., Finkenbinder, M., Hillman, A., Kuehn, S., Heil, C., (2018) Regionally Consistent Western North America Paleomagnetic Directions from 15-35 ka: Assessing Chronology and Uncertainty with Paleosecular Variation (PSV) Stratigraphy, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Weber, M., **Reilly, B.**, (2018) Bengal Fan depositional history through Pleistocene climate, monsoon, and sea level transitions, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Jennings, A., **Reilly, B.**, Andrews, J., Walczak, M., Stoner, J., Mix, A., Jakobsson, M., (2018) Sedimentological and faunal evidence of ice shelves and their disintegration during the Early Holocene deglaciation of Nares Strait, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Lagos, L., Dekens, P., Weber, M., **Reilly, B.**, Selkin, P., Meynadier, L., Savian, J., (2018) Oceanographic conditions in the southern Bay of Bengal from ~0.8 to 1.3 Ma, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Freiberg, B., Hatfield, R., Stoner, J., **Reilly, B.**, Solada, K., (2018) The particle size specific magnetic properties of Eirik Ridge sediments over the last 150 ka from IODP Expedition 303 U1305 and U1306: Separating the influences of the Greenland Ice Sheet and Deep Western Boundary Current, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Hatfield, R., Solada, K., **Reilly, B.**, Stoner, J., Abbott, M., Rodbell, D., Woods, A., McGee, D., Chen, C., (2018) Assessing orbital forcing in the tropical Andes: Developing a 700 kyr paleointensity assisted chronology for ICDP drilling in Lake Junin, Peru, American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Kawsar, M., Manoj, M.C., Kohki, Y., Baxter, A., **Reilly, B.**, (2018) Morphological and chemical properties of Microtektite grains from Bay of Bengal (IODP Expedition: 354), American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- Marchetti, D., Cerling, T., **Reilly, B.**, Stoner, J., Abbott, M., Bailey, C., (2018) Ice at the edge of the Bonneville Basin—mountain glaciation and paleoclimate of the upper Fremont River catchment, central Utah, Lake Bonneville Geologic Conference and Short Course, October 3-6, 2018, Salt Lake City, UT, USA.
- Reilly, B.**, Stoner, J., Hatfield, R., Freiberg, B., Bergmann, F., Weber, M., Selkin, P., Schwenk, T., Spiess, V., France-Lanord, C., (2018) Chronostratigraphic modeling of complex depositional systems: Lessons from the Bengal Fan, implications for ice proximal environments, MagellanPlus Workshop: Greenland Ice Sheet evolution revealed by drilling a transect on the Baffin Bay – West Greenland margin, September 12-14, 2018, Copenhagen, Denmark.
- Jennings, A., **Reilly, B.**, Andrews, J., Stoner, J., Walczak, M., Mix, A., Jakobsson, M., (2018) Ice Shelf Facies: Modern and paleo examples from NW Greenland, MagellanPlus Workshop: Greenland

- Ice Sheet evolution revealed by drilling a transect on the Baffin Bay – West Greenland margin, September 12-14, 2018, Copenhagen, Denmark.
- Hatfield, R., Stoner, J., Friberg, B., **Reilly, B.**, Reyes, A., Carlson, A., Beard, B., (2018) Eirik Ridge marine sediments: A Plio-Pleistocene archive of the past behavior of the south Greenland Ice-Sheet (sGIS), MagellanPlus Workshop: Greenland Ice Sheet evolution revealed by drilling a transect on the Baffin Bay – West Greenland margin, September 12-14, 2018, Copenhagen, Denmark.
- Bergmann, F., **Reilly, B.**, Schwenk, T., Spiess, V., France-Lanord, C., (2018) The Bengal Fan evolution and stratigraphy at 8° N—Integrating seismic data and IODP 354 drilling results, 20th International Sedimentological Congress, August 13-17, 2018, Quebec, Canada.
- Velle, J., St-Onge, G., Stoner, J., Mix, A., Walczak, M., **Reilly, B.**, Forwick, M., (2018) A high resolution late Quaternary paleomagnetic secular variation record from IODP Expedition 341 drill Site U1418 in the Gulf of Alaska, 20th International Sedimentological Congress, August 13-17, 2018, Quebec, Canada.
- Jennings, A., **Reilly, B.**, Andrews, J., Walczak, M., Stoner, J., Mix, A., Jakobsson, M., Dyke, L., (2018) New Insights into Deglacial and Holocene ice-shelf and ice tongue history in NW Greenland, PAST Gateways, April 16-20, 2018, Durham, UK.
- Reilly, B.**, Stoner, J., Mix, A., Walczak, M., Jennings, A., Jakobsson, M., Dyke, L., Cheseby, M., (2018) Past collapse and late Holocene reestablishment of the Petermann Ice Tongue, Northwest Greenland, 48th International Arctic Workshop, April 5-6, 2018, Boulder, CO, USA.
- Glueder, A., Mix, A., Milne, G., Lecavalier, B., **Reilly, B.**, Clark, J., et al., (2018) Apparent post-LGM ice advance in Northern Greenland as a feature of deglacial mass loss—Two interpretations of bivalve ages from raised marine deposits, 48th International Arctic Workshop, April 5-6, 2018, Boulder, CO, USA.
- Jennings, A., **Reilly, B.**, Andrews, J., Bailey, E., Mix, A., Stoner, J., Walczak, M., Dyke, L., (2018) Holocene paleoceanographic development in the Petermann Fjord and growth of the Petermann Ice Tongue based on analysis of lithofacies, grain size properties and foraminifers in OD1507 cores, 48th International Arctic Workshop, April 5-6, 2018, Boulder, CO, USA.
- Bergmann, F., Schwenk, T., Spiess, V., **Reilly, B.**, France-Lanord, C., and the IODP Expedition 354 Scientific Party, (2018) Channel-levee evolution and stratigraphy at the middle Bengal Fan—Integrating multichannel-seismic data and IODP Expedition 354 results, German IODP Meeting, 2018.
- Jennings, A., **Reilly, B.**, Andrews, J., Mix, A., Befus, B., Walczak, M., Bailey, E., Stoner, J., Oliver, B., Dyke, L., Jakobsson, M., (2018) Holocene paleoceanographic development and growth of the Petermann Ice Tongue based on analysis of lithofacies, grain size distributions and foraminifers in the OD1507 cores from Petermann Fjord, Ocean Sciences Meeting, February 11-16, 2018, Portland, OR, USA.
- Lavoie, N., Walczak, P., Walczak, M., Stoner, J., Stillie, B., **Reilly, B.**, Praetorius, S., Glueder, A., Bervid, H., Du, J., Friberg, B., Pico, T., Romo, I., Robles, A., Churchill, A., Rex, C., (2018) Investigating the deglacial through Holocene environmental history of the Oregon/Washington margin: Development of non-destructive (MSCL and CT data) stratigraphy of cores collected during Cruise OC1706B, Ocean Sciences Meeting, February 11-16, 2018, Portland, OR, USA.
- (pre 2018 conference abstracts at end of CV)*

FIELD EXPERIENCE

- Paleomagnetist, **IODP 382: Iceberg Alley and Subantarctic Ice and Ocean Dynamics (Weber/Raymo)**
Scotia Sea, Planned for March – May, 2019
- Participant, **UNOLS Chief Scientist Seismic Training Cruise RR1717 (Tominaga/Lyle/Trehu)**
Multi-Channel Seismic Survey, Oregon Margin, September – October, 2017

- Participant, ***Environmental History of the Columbia River OC1706B*** (Walczak/Stoner)
Chirp Survey & Sediment Coring, Oregon Margin, June 2017
- Participant, ***Petermann 2015 Expedition OD1507*** (Mix/Jakobsson)
Sediment Coring & Glacial Geology, Nares Strait, July – September 2015
- Paleomagnetist, ***IODP Expedition 354: Bengal Fan*** (France-Lanord/Spiess)
Bay of Bengal, January – March, 2015
- Participant, ***Southern Greenland lake coring and cosmogenic dating*** (Sinclair/Carlson)
South Greenland, August – September 2014
- Participant, ***Squaw Lake coring*** (Morey-Ross)
Jackson County, Oregon, June 2014
- Multi-sensor core logger, ***Beaufort Sea and Amundsen Gulf Cruise HLY1302*** (Keigwin/Driscoll)
Beaufort Sea, August – September 2013
- Participant, ***Fish Lake coring*** (Stoner/Abbott)
Steens Mountain, Oregon, August 2013
- MGG team, ***LARsen Ice Shelf System Antarctica (LARISSA) Cruise NBP1203*** (Vernet/Huber)
Eastern Antarctic Peninsula, March – April 2012

ACTIVITIES

- Coalition for Graduate Employees Stewart for the College of Earth, Ocean, and Atmospheric Sciences***
Steward 2016-2018
- Committee to establish a National Repository for Geologic Samples Collected from Polar Regions***
Graduate Student Representative, 2016
- Quaternary Tea Seminar and Discussion Series***, Oregon State University
Participant 2013-
Organizer 2015/2016 Academic Year
- Paleomagnetic and Environmental Magnetic Reading Group***, Oregon State University
Participant 2013-
- Undergraduate Mentees***, Oregon State University
Chong Seok Choi, 2014-2015
Sam Albert, 2016-2017
Jordan Morris (REU), 2016

Referee

Proceedings of the International Ocean Discovery Program, *Climates of the Past*, *Geo-Marine Letters*, *Studia Geophysica et Geodaetica*, *Bulletin of the Geological Society of Denmark*

Conference Session Chair

- “Understanding the Indian-Asian-Australian Monsoon: Evolution and Links to Tectonic, Climatic, and Biogeochemical Cycles II,” American Geophysical Union Fall Meeting, December 10-14, 2018, Washington D.C., USA.
- “Chronostratigraphic advances integrating paleomagnetism, tephra, climate correlation, and other stratigraphic and proxy methods to solve earth system processes and events,” American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- “Reconstructing the Secular Variation of the Earth’s Magnetic Field: Recent Methodological Advances and New Paleomagnetic and Archaeomagnetic Data III Posters,” American Geophysical Union Fall Meeting, December 14-18, 2015, San Francisco, CA, USA.

Co-Proponent for International Ocean Discovery Program (IODP) Scientific Drilling

814-Full2: Assessing the history of the south Greenland Ice Sheet and its interaction with ocean circulation, climate, and sea level

Guest Lectures

OAS520: Solid Earth 2018: Deep Sea Fans & Cenozoic Climate

GEO460: Geological Oceanography 2015-2016: *Deep Sea Fans*

OC331: Introduction to Oceanography 2014: *Plate Tectonics; Ocean Basins; Ocean Sediments; Paleoceanography; Paleoseismology*

University Seminars

“Using the Middle Holocene to better understand present changes at Petermann Glacier, Northwest Greenland,” **Geology and Geophysics Seminar**, Oregon State University, October 18, 2018.

“In search of late Neogene archives of Pacific Northwest climate: A report on the Seismic ECS,” **Quaternary Tea**, Oregon State University, October 13, 2017.

“Holocene history of Petermann Glacier, NW Greenland,” **CEOAS Student Seminar Series**, Oregon State University, February 13, 2017.

“Assessing the Holocene (In)stability of Petermann Glacier,” **Geology and Geophysics Day**, Oregon State University, April 29, 2016.

“Tracking magnetic mineral assemblages on the West Antarctic Peninsula: Implications for Holocene ice-ocean interactions,” **Quaternary Tea**, Oregon State University, February 19, 2016.

“Sediment Magnetism and CT scans: A check-up for paleomagnetic well-being,” **CEOAS Student Seminar Series**, Oregon State University, November, 7, 2014.

“Field work in the Antarctic,” **Earth and Environmental Studies Club**, Montclair State University, April 17, 2013.

“Day plot and hysteresis ratio mixing: Application for paleo-climate interpretation of Antarctic marine sediment cores”, **Physics Club**, Montclair State University, December 5, 2012.

OUTREACH ACTIVITIES SINCE 2013**CEOAS at the Corvallis Farmers Market**, Downtown Corvallis, OR

2018 – Paleoclimates: Ice Cores and Sediment Cores

2017 – Earth History & Sediment Cores

2016 – Marine Geology Extravaganza

2016 – Paleoclimates: Glacial Geology, Ice Cores, and Sediment Cores

DaVinci Days, Corvallis Fair Grounds, OR

2016 – Earth history from Sediment Cores: Paleoceanography, Paleoseismology, Paleomagnetism, and Paleoglaciology

Super Science Saturday Adult Presenter, Ridgewood Public School K-12 Science Fair, NJ

2016 – Geology tells the secrets of the Greenland Ice Sheet

2015 – Ocean Drilling and earth history: Live broadcast from the Indian Ocean

2013 – Sediment cores: Investigating the history of the Earth

Science Competitions Volunteer

2016 – National Ocean Sciences Salmon Bowl (Judge)

2015 – Oregon Regional MATE ROV Competition (Judge)

2013 – National Ocean Sciences Salmon Bowl (Volunteer)

Additional Outreach Presentations for Non-expert Audiences

“A Tale of Ice and Oceans,” (w/ M. Walczak & B. Freiberg) **World Region Tend the World Youth Forum**: The Global Link Between the Environment and Social Justice, January 17, 2018, Portland, OR, USA.

- “Himalayan Tectonics and Climate, International Ocean Discovery Program (IODP) Expedition 354: Earth History Archived in Marine Sediments,” **ARCS Portland Chapter: Advancing Science in America**, November 2, 2015, Portland, OR, USA.
- “Ocean Drilling, Earth History, and Telling Time,” **Apprenticeships in Science and Engineering (ASE) Midsummer Conference**, July 14, 2015, Corvallis, OR, USA.
- “Live broadcasts from the JOIDES Resolution,” **International High School and College Classrooms**, February – March, 2015.
- “Careers in the sciences: Climate research in the Antarctic,” **Belleville High School**, June 7, 2013, Belleville, NJ, USA.

SELECT PROFESSIONAL EXPERIENCE

- 2008 – 2010** **AmeriCorps National Civilian Community Corps (NCCC) Pacific Region Team Leader**
 Coalition to Restore Coastal Louisiana, *Houma, LA*
 NCCC Summer of Service, *Sacramento, CA*
 Keep the Hawaiian Islands Beautiful, *Maui, HI*
 Louisiana Recovery School District, *New Orleans, LA*
 Habitat for Humanity, *Thibodaux and Lafayette, LA*
 American Red Cross Disaster Relief, *American Samoa*
 Feather River Fire Management USFS, *Plumas National Forest, CA*
 Atwell Island Restoration Project BLM, *Alpaugh, CA*
 St. Bernard Project, *Chalmette, LA*
- 2007** **Copper River Watershed Project (CRWP) Alaska Conservation Foundation Intern**
Cordova, AK

AWARDS

- 2018** Quaternary Research Center Research Award (co-Investigator): “*A search for pre-LGM megaflood sedimentation in Cascadia Basin.*”
- 2017** The Lance Forsythe Memorial Fellowship for exhibiting breadth and independence of thought, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University
- 2013-6** ARCS Foundation Scholar, Portland Chapter
- 2016** Geological Society of America Graduate Student Research Grant: “*Assessing the Holocene (In)stability of Petermann Glacier*”
- 2015** US Science Support Program Post-Expedition Award: “*Mid to Late Pleistocene Stratigraphy of the 8° North Bengal Fan Transect: Chronology and Characterization of Pleistocene Hemipelagic Layers and the Over/Underlying Turbidites*”
- 2013** Laurels Fellowship, Oregon State University
- 2013** Arctic Service Medal
- 2013** College of Science and Mathematics Award of Excellence, The Graduating Masters Research Award, Montclair State University
- 2013** The Outstanding M.S. Student in Geosciences Award, Montclair State University
- 2012** Antarctic Service Medal
- 2010** Presidential Call to Service Award

TRAININGS

- 2018** Practitioner Level: Center for Integration of Research, Teaching, and Learning (CIRTL)
- 2016** Course Design and Methods for College and University Teaching
- 2015** The Inclusive Classroom: Diversity, Power, and Discrimination

- 2015** Bearwise Polar Bear Safety, Arctic Field Training
2014 Theories of Teaching and Learning in Higher Education
2008 NCCC Leadership Training (Supervisory Skills, Service Learning, Diversity in Service, Conflict Management and Effective Communication)

CONFERENCE ABSTRACTS (pre-2018) (* oral presentation, + invited, ^ undergraduate first author)

- *Reilly, B.**, Stoner, J., Mix, A., Jakobsson, M., Jennings, A., Walczak, M., Dyke, L., (2017) Past collapse and late Holocene reestablishment of the Petermann Ice Tongue, Northwest Greenland, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Stoner, J., **Reilly, B.**, Walczak, M., Mix, A., Lavoie, N., Velle, J., St-Onge, G., Xuan, C., (2017) Development of a process based paleomagnetic secular variation dating curve for the Northern Hemisphere through the radiocarbon interval, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Solada, K., de Silva, S., Stoner, J., Mucek, A., **Reilly, B.**, Hatfield, R., Pratomo, I., Bowers, J., Jamil, R., Setianto, B., (2017) Constraining resurgence through lake sediment paleomagnetism on resurgent dome Samosir Island in Toba Caldera, Sumatra, Indonesia, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Weber, M., Lantzsach, H., **Reilly, B.**, Dekens, P., Das, S., Martos, Y., Williams, T. (2017) Paleoclimate reconstruction on the Lower Bengal Fan for the last 200 ka – implications for monsoon development, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Lagos, A., Dekens, P., **Reilly, B.**, Selkin, P., Meynadier, L., Savian, J., (2017) Reconstructing sea surface conditions in the Bay of Bengal during the Mid-Pleistocene Transition, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Homes, B., Dekens, P., Weber, M., Lantzsach, H., **Reilly, B.**, Das, S., Martos, Y., Williams, T., (2017) Reconstructing the glacial cycles of the last 150 ka in the Southern Bay of Bengal, American Geophysical Union Fall Meeting, December 11-15, 2017, New Orleans, LA, USA.
- Walczak, M., Bervid, H., Carlson, A., Churchill, A., Du, J., Freiberg, B., Glueder, A., Lavoie, N., Lopes, C., Mix, A., Pico, T., Praetorius, S., **Reilly, B.**, Rex, C., Robles, A., Romo, I., Stoner, J., (2017) Discharge history of the Columbia River through the last deglaciation and the Holocene: Preliminary results from cruise OC1706B, Geological Society of America Annual Meeting, October 22-25, 2017, Seattle, WA, USA.
- Selkin, P., Bergmann, F., Brainard, M., Dekens, P., Galy, V., Lantzsach, H., Manzueta Jr., M., Meynadier, L., **Reilly, B.**, Ruiz, V., Savian, J., France-Lanord, C., Speiss, V., Klaus, A., and the Expedition 354 Scientists, (2017) Magnetic fabric and channel migration in the active levee of the Bengal Fan, IODP 1454, Geological Society of America Annual Meeting, October 22-25, 2017, Seattle, WA, USA.
- Reilly, B.**, Stoner, J., Mix, A., Jakobsson, M., Jennings, A., Walczak, M., Dyke, L., Hatfield, R., and the OD1507 Shipboard Scientific Party, (2017) Deconvolving glaciomarine sedimentary process in Petermann Fjord, Northwest Greenland, using particle size specific magnetic measurements, International Conference on Rock Magnetism 2017, July 10-14, 2017, Utrecht, The Netherlands.
- Stoner, J., Strano, S., **Reilly, B.**, Xuan, C., (2017) Observations on post-depositional remanent magnetization (pDRM) from Holocene paleomagnetic records: Providing constraints on process and impacts, International Conference on Rock Magnetism 2017, July 10-14, 2017, Utrecht, The Netherlands.
- Reilly, B.**, Stoner, J., Mix, A., Jakobsson, M., Jennings, A., Walczak, M., Dyke, L., Cheseby, M., Albert, S., Wiest, J., and the OD1507 Shipboard Scientific Party, (2017) Holocene activity of the Petermann

- glacial system, Past Global Changes (PAGES) Open Science Meeting, May 9-13, 2017, Zaragoza, Spain.
- ***Reilly, B.**, Stoner, J., Mix, A., Jakobsson, M., Jennings, A., Walczak, M., Dyke, L., Cheseby, M., Albert, S., Wiest, J., and the OD1507 Shipboard Scientific Party, (2017) Holocene activity of the Petermann glacial system, Past Global Changes (PAGES) Young Scientist Meeting, May 7-9, 2017, Morillo de Tou, Spain.
- Glueder, A., Mix, A., Milne, G., Lecavalier, B., **Reilly, B.**, Clark, J., Holm, C., Padman, J., Ross, A., Southon, J., (2017) Reconstructing relative sea-level in Northern Greenland from marine bivalves, Past Global Changes (PAGES) Open Science Meeting, May 9-13, 2017, Zaragoza, Spain.
- Hogan, K., Jakobsson, M., Mayer, L., Mix, A., Nielsen, T., Kamla, E., **Reilly, B.**, An Heirman, K., Stranne, C., Mohammed, R., Eriksson, B., Jerram, K., (2017) Glacimarine sedimentation in Petermann Fjord and Nares Strait, NW Greenland, European Geophysical Meeting General Assembly, April 23-28, 2017, Vienna, Austria.
- Jennings, A., Mix, A., Walczak, M., **Reilly, B.**, Stoner, J., Cheseby, M., (2017) Modern foraminiferal assemblages in the Petermann Fjord, NW Greenland, 47th International Arctic Workshop, March 23-25, 2017, Buffalo, NY, USA.
- Reilly, B.**, Stoner, J., (2017) Assessing uncertainty in sedimentary paleomagnetic secular variations records: A case study using High Arctic u-channel paleomagnetic data (79-82° North) from the late Holocene, Magnetics Information Consortium (MagIC) Workshop, January 24-26, 2017, La Jolla, CA, USA.
- Stoner, J., **Reilly, B.**, Ziegler, L., Hatfield, R., Konyndyk, D., Abbott, M., Finkenbinder, M., (2017) Fish Lake, Steens Mountain Oregon revisited: New views from an iconic paleomagnetic site, Magnetics Information Consortium (MagIC) Workshop, January 24-26, 2017, La Jolla, CA, USA.
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