
Lauren Neitzke Adamo

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EDUCATION

- 2016 Ph.D.** **Rutgers University**, Graduate School of New Brunswick, NJ
Geology/ Paleooceanography, (Advisor: Dr. James D. Wright)
Dissertation Title: Evaluating Surface and Deep-Water Changes Over Eirik Drift During the Late Pleistocene: Implications from Geochemical and Sedimentological Proxies
- 2006 M.S.** **Rutgers University**, Graduate School of New Brunswick, NJ
Paleooceanography (Advisor: Dr. James D. Wright)
Thesis: Late Pleistocene Sedimentation on Eirik Drift: Implications for North Atlantic Deep Water Variability
- 2004 B.S. with honors Rutgers University**, Rutgers College, New Brunswick, NJ
Major: Geological Sciences with high honors
Senior Honors Thesis: Abrupt Climate Changes in Thermohaline Circulation during the last Glacial Cycle

PROFESSIONAL TEACHING EXPERIENCE

Director of the Rutgers Geology Museum, Rutgers University (July 2016- Present)

Associate Director (September 2009 – June 2016)

Develop, plan and oversee all museum operations and outreach programs as well as manage public relations within the University and community.

Assistant Teaching Professor, Rutgers University (July 2016- Present)

Lecturer (September 2008- June 2016)

Responsible for teaching several 100 or 200 level hybrid, online, and traditional lecture based classes per year for the Department of Earth and Planetary Sciences.

Adjunct Professor, Middlesex County College (May 2009- July 2009)

Taught a hands-on lecture and lab based introductory geology course to 25 undergraduate students.

Supplemental Instructor/ Academic Tutor, Rutgers University (Nov. 2004- Present)

Acted as a personal and group tutor for Varsity Athletes in Geology, Geography and Africana Studies courses.

Rutgers Science Explorer Bus Fellow, Rutgers University (June 2007- June 2008)

Taught activities on geology, genetics, and forensic anthropology on a traveling bus to 5th to 8th graders at middle schools throughout New Jersey.

NSF GK-12 Teaching Fellow, Rutgers University (June 2007- June 2008)

Worked with a group of Middle School science and mathematics teachers to bring the latest science and technology into K-12 education by developing and co-teaching hands-on activities and lessons.

Teaching Assistant, Rutgers University (Sept. 2005- May 2006)

Taught multiple sections of the lab for Introduction to Geology and Paleontology for majors and minors in Geology. Acted as Head Teaching Assistant and coordinator for other teaching assistants in the department.

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant to Dr. James D. Wright, Rutgers University (May 2003- July 2009)

Prepared and analyzed core samples from Gardar and Eirik Drifts in the North Atlantic for magnetic susceptibility, % CaCO₃, % coarse fraction, grain size, δ¹³C and δ¹⁸O.

Geoscience Intern at BHP Billiton Petroleum Inc., Houston, Texas (May- August 2007 & August-

September 2008) Spent two summers working in Exploration/New Ventures analyzing and interpreting 3-D seismic, geophysical logs, and sediment core data with respect to shallow water geo-hazards and hydrocarbon exploration.

Environmental Consulting Intern, PMK Group, Inc., Cranford, NJ (June- August 2005)

Worked in the Geotechnical Engineering Department, assisting in site investigations, borehole recovery, soil laboratory testing, and constructing and finalizing reports and NJDEP permits.

Shipboard Scientist, *R/V KNORR*, Woods Hole, MA (June- July 2004)

Assisted in the deployment and recovery of multi-cores, jumbo piston cores, giant gravity cores, seismic data, and water samples during a month-long cruise in the Sargasso Sea.

Intern at Lamont-Doherty Earth Observatory, Columbia University (May- July 2003)

Conducted a research project using Mg/Ca and stable isotope ratios under the supervision of Dr. Stephan Pekar using ODP cores from the Tasman Gateway in the Southern Ocean.

PUBLICATIONS

Neitzke-Adamo, L., A.J. Blandford, Ericka Gordor, and Richard K. Olsson .2016. The Rutgers Geology Museum and its role in the evolution of the 19th and 20th century geoscience college classroom, 2017.Geological Society of America Special Edition Paper, (Under Review).

Neitzke-Adamo, L., J.D. Wright, G.S. Mountain, K.G. Miller, and P.L. Manely, 2016. Deposition on Eirik Drift: Tracking North Atlantic Deep Water Variations. (Revising for Paleocyanography).

Neitzke-Adamo, L., and J.D. Wright, 2016. Variations in North Atlantic Deep Water Flow on Eirik Drift from the Last Glacial Maximum to Today (in prep).

Evans, H.F, Channell, J.E.T., Stoner, J.S., Hillaire-Marcel, C., Wright, J.D., **Neitzke, L.C.**, and G.S. Mountain, 2007. Paleointensity-assisted chronostratigraphy of detrital layers on the Eirik Drift (North Atlantic) since marine isotope stage 11. *Geochemistry, Geophysics and Geosystems*, Volume 8.

ABSTRACTS

Sotomayor, Sebastian, **Lauren Neitzke-Adamo**, James D. Wright, and Thomas M. Cronin, 2017. Examining faunal changes in deep-sea ostracods in glacial and interglacial regimes: Implications for variations in North Component Water flow across Eirik Drift, North American Micropaleontology Society, 2017 Annual Meeting, submitted.

Sakar, Ria, **Lauren Neitzke-Adamo**, and James D. Wright, 2017. Evaluating Deep Water Variations in the North Atlantic Ocean Using Planktonic Species Counts and Benthic Faunal Assemblages, North American Micropaleontology Society, 2017 Annual Meeting, submitted.

Bailey, R, and **L. Neitzke-Adamo**, 2016. Introduction to Mapping and Geocaching: A Primer to Visual Literacy and Spatial Comprehension in an Informal Educational Setting, Geological Society of America, GSA 2016 Annual Meeting, Paper 66-2.

- Neitzke-Adamo, L.**, A.J. Blandford, Ericka Gordor, and Richard K. Olsson .2016. The Rutgers Geology Museum and its role in the evolution of the 19th and 20th century geoscience college classroom, Geological Society of America, GSA 2016 Annual Meeting, Paper 41-3.
- Bitting, Kelsey S., **Lauren C. Neitzke**, Jackie Halaw, Marth Oliver Withjack, Julie Monet, James D. Wright, and Carl Swisher III, Inquiry-Based Learning in Geoscience Classrooms: Interactive Activities and Demonstrations *Geological Society of America, GSA 2009 Portland Annual Meeting*, Vol. 41, No. 7, Paper 29-5.
- Neitzke, L.C.**, T. Rousseau, and D. Gavin, 2008. Drilling into Science: A Hands-on Cooperative Learning Oil Exploration Activity designed for Middle School and High School Students *Geological Society of America, GSA 2007 Denver Annual Meeting*, Vol. 40, No. 6, Paper 309-1.
- Neitzke, L.C.**, J.D. Wright, and S.S. Henderson 2008. Tracking Variations in North Atlantic Deep Water Flow on Eirik Drift. *Geophysical Research Abstracts, EGU General Assembly 2008*, Vol. 10, EGU2008-A-00829.
- Neitzke, L.C.**, and J.D. Wright, 2008. Deep Sea Sedimentation and Bottom Current Interactions in the North Atlantic Ocean. *The Northeast Alliance for Graduate Education and the Professoriate*, Alliance and Partners Day at Rutgers University, March 28, 2008.
- Elmore, A.C., J.D. Wright, **L.C. Neitzke**, and S. Henderson, 2007. Northern Component Water Variability Over the Past 21kyr: High-resolution Records from Eirik and Gardar Drifts. *Eos, Transactions, American Geophysical Union, AGU 2007 Fall Meeting Supplement*, Vol. 88, Paper 13B-1280.
- Neitzke, L.C.** and J.D. Wright, 2007. Variations in Deep-Water Circulation on Eirik Drift from the Last Glacial Maximum to early Holocene. *Geological Society of America, GSA 2007 Denver Annual Meeting*, Vol. 39, No. 6, Paper 114-20.
- Wright, J.D., DiGioia, D., **Neitzke, L.C.**, Henderson, S.S., and A.C. Elmore, 2007. Stable Isotope Stratigraphy of IODP Site U1306. *Post-Expedition Meeting of IODP Expeditions 303 and 306: North Atlantic Climate I and II, Kona, Hawaii*, May 14-17, 2007.
- Wright, J.D., Henderson, S.S., Hillaire-Marcel, C., McKay, J., **Neitzke, L.C.**, and A. de Vernal, 2007. Contrasted sedimentation regimes during the late Quaternary on South Greenland slope and rise from stable isotope stratigraphies at IODP Sites U1305 and U1306. *Post-Expedition Meeting of IODP Expeditions 303 and 306: North Atlantic Climate I and II, Kona, Hawaii*, May 14-17, 2007.
- Neitzke, L.C.** and J.D. Wright, 2006. The Imprint of NADW on the Eirik Drift during the Younger Dryas. *Eos, Transactions, American Geophysical Union, AGU 2006 Fall Meeting Supplement*, Vol. 87, No. 52, Paper PP23C-1766.
- Neitzke, L.C.**, Wright, J.D., and A.C. Elmore, 2006. Deep-Sea Sedimentation on Eirik Drift as Controlled by Bottom Water Currents. *AAPG/SEG Student Expo, Houston, Texas, October 9-10, 2006*.
- Neitzke, L.C.**, Wright, J.D., Mountain, G.S., and P.L. Manley, 2005. Straddling the Eirik Drift: Implications for the History of Lower NADW. *Eos, Transactions, American Geophysical Union, AGU 2005 Fall Meeting Supplement*, Vol. 86, No. 52, Paper PP21C-1587.
- Elmore, A.C., Wright, J.D., Manley, P.L., Mountain, G.S., Earley, R.J., and **L.C. Neitzke**, 2005. Gardar mudwave accumulation history as a proxy for variability of NCW flux since Marine Isotope Stage 5e. *Eos, Transactions, American Geophysical Union, AGU 2005 Fall Meeting Supplement*, Vol. 86, No. 52, Paper PP21C-1587.

TAUGHT COURSES

Planet Earth/Introduction to Geology- 460:100/101; 3-4 credits (Lecture and Lab)- This course is designed to give a broad, basic understanding of the planet on which we reside. Students will explore concepts such as the age, origin, evolution, and composition of the Earth, the interrelationships of the Earth's major physical systems, and the role the physical Earth plays in global politics and economics.

Dinosaurs, 460:206, 3 credits (Lecture and Online Course)- Dinosaurs is a survey of dinosaurian evolution and diversity. This class explores the history of discovery and collection, reconstructs anatomy, behavior, physiology and habitats from the fossil record, and examines the origins, evolutionary radiation, and extinction of dinosaurs.

Earthquakes and Volcanoes, 460:201, 3 credits (Lecture and Online Course)- This class covers the basics about earthquakes, volcanic eruptions, and ways these natural processes affect human civilization.

PREPARED COURSES

- Paleontology
- Environmental Geology
- Introduction to Oceanography
- Introduction to Environmental Sciences
- Sedimentology and Stratigraphy
- Global Climate Change

PUBLIC INTEREST AND OUTREACH

- Member of the Geological Society of America's Education Committee as the Pre-college Educator (K-12 Representative (July 2017 to June 2021)
- Served on scholarship committee for the Research & Development Council of New Jersey's STEM Merit Scholarship program.
- Currently serving on the selection committee for the Association of Women Geologists' Outstanding Educator Award
- Designed a hands-on activity for middle school students for the Rutgers Science Explorer bus titled "Drilling into Science: A Petroleum and Oil Exploration Activity."
- Mentored several undergraduate and graduate students completing independent study projects, internships, teaching practicums and work-study programs at the Rutgers University Geology Museum.
- Presented guest lectures at various K-12 schools and libraries on various geology related topics. Some of the topics presented include: *My Life as a Geologist, Dinosaurs and Fossils, Identifying Minerals, Fun with Dinosaurs, Fossils and Paleontology, How to Identify Rocks and Minerals.*

HONORS AND AWARDS

Evolving Earth Foundation Student Research Grant	2008
National Science Foundation GK-12 Teaching Fellow	2007-2008
Eagleton Institute of Politics Governor's Executive Fellowship (Declined)	2007-2008
Gretchen L. Blechschmidt Research Grant Award	2007
Geological Society of America Research Grant	2007
Graduate School of New Brunswick Special Study Award	2007
Rutgers University Graduate Fellowship	2006-2007
Rutgers University Graduate School Travel Grant Recipient	2005
Rutgers University Graduate Fellowship	2004-2005
Vinton Gwinn Award for Excellence in Undergraduate Research	2004