

**Nathan D. Stansell, Ph.D. (stansell.9@osu.edu)**  
**Byrd Postdoctoral Research Fellow**  
**The Ohio State University**  
**Byrd Polar Research Center**  
**Scott Hall Room 108, 1090 Carmack Road**  
**Columbus, OH 43210**

**Education:**

- **Ph.D. Geology (2009).** *The University of Pittsburgh, Department of Geology and Planetary Science.* Advisor: Dr. Mark B. Abbott. Dissertation title: *Rapid climate change in the Tropical Americas during the Late Glacial interval and the Holocene.* Committee members: Donald Rodbell (Union College), Michael Rosenmeier, Daniel Bain, Thomas Anderson. Defended: March, 2009.
- **M.S. Geology (2005).** *University of Pittsburgh, Dept. of Geology and Planetary Science.* Thesis title: *Late-Quaternary Equilibrium-Line Altitude Reconstructions, Paleo-Temperature Estimates and Deglacial Chronology of the Merida Andes, Venezuela.* Defended: March, 2005.
- Jun. 2002 to Apr. 2009. *University of Pittsburgh, Latin American Studies program*
- Sep. 1999 to Dec. 1999, *University of Reading (United Kingdom).* Study Abroad: Geology and Archaeology Programs
- **B.S. Geology (2001),** *University of Idaho*
- **B.S. Anthropology (2001).** *University of Idaho.*

**Research Positions:**

- Jun. 2009 to present. **Postdoctoral Research Fellow**, Byrd Polar Research Center and Ice Core Paleoclimatology Group, *The Ohio State University*, Advisor: Dr. Bryan G. Mark.
- Jun. 2002 to May, 2009. **Research Assistant**, *University of Pittsburgh*, Advisor: Dr. Mark B. Abbott
- Jun. 1999 to Jun. 2002. **Undergraduate Researcher and Field Assistant**, *Active Tectonics Group, University of Idaho*, Advisor: Dr. John S. Oldow

**Journal Articles:**

- Stansell, N.D., Abbott, M.B., Rull, V., Rodbell, D., Bezada, M., Montoya, E. (*In Review*). Abrupt Younger Dryas Cooling in the Northern Tropics Recorded in Lake Sediments from the Venezuelan Andes. *Earth and Planetary Science Letters.*
- Stansell, N.D., Polissar, P.J., and Abbott, M.B. (2007). Last Glacial Maximum Equilibrium-Line Altitude and Paleo-Temperature Reconstructions for the Cordillera de Mérida, Venezuelan Andes. *Quaternary Research* 67: 115-127.
- Stansell, N.D., Abbott, M. B., Polissar, P. J., Wolfe, A. P., Bezada, M., Rull, V. (2007). Reply: Late Quaternary Deglacial History of the Mérida Andes, Venezuela: response to comment. *Journal of Quaternary Science*. DOI: 10.1002/jqs.1109.
- Stansell, N.D., Abbott, M. B., Polissar, P. J., Wolfe, A. P., Bezada, M., Rull, V. (2005). Late Quaternary Deglacial History of the Mérida Andes, Venezuela. *Journal of Quaternary Science*, Special Issue: Glacial Geology and Palaeoclimate Records from the Americas: *In Memory of Geoffrey Owen Seltzer 1959-2005*, 40(7-8), 801-812.

**Articles In Preparation (available on request):**

- Stansell, N.D., Abbott, M.B., Rodbell, D. (*in prep*). Lake sediment record of neoglacial advances and climate change in the Cordillera Raura, Peru
- Stansell, N.D., Rosenmeier, M.F., Rubinov, M., Roman-Lacayo, M., Abbott, M.B., Polissar, P.J. (*in prep*). Stable isotopic record of Late Holocene environmental changes in Nicaragua

## Geological Fieldwork:

- Jun - Jul 2009. **Peruvian Andes**. Collected lake sediment cores, hydro-geologic data and mapped glacial geology. Project in collaboration with Dr. Donald Rodbell of Union College and Jeffrey McKenzie of McGill University.
- Apr 2009. **North Cascades, Washington State**. Lake sediment coring and weather station maintenance.
- Apr-May, 2008. **Peruvian Andes**. Collected lake sediment cores, installed meteorological stations and collect glacial-geologic data.
- Aug, 2007. **British Columbia, Canada**. Collected lake sediment cores from carbonate lake systems, samples for modern water chemistry, and glacial-geologic samples
- Jul, 2007. **North Cascades, Washington State**. Collected sediment cores.
- May-Jun, 2007. **Peruvian Andes**. Collected lake sediment cores, installed meteorological stations and collect glacial-geologic data.
- Jan, 2007. **Venezuelan Andes**. Collected bog and lake sediment cores in the Sierra de Santo Domingo and the Pico Bolivar region. Project in collaboration with Maximiliano Bezada, Department of Earth Sciences, Universidad Pedagógica Experimental Libertador, Caracas, Venezuela, and Jaime Escobar, Land Use and Environmental Change Institute, University of Florida.
- Jan, 2007. **Gran Sabana, Venezuela**. Collected bog and lake sediment cores. Project in collaboration with Valenti Rull of the Department de Biologia Animal, Biologia Vegetal I Ecologia, Universitat Autònoma de Barcelona, Spain.
- Sep-Oct, 2006. **North Cascades, Washington State**. Collected lake sediment cores.
- August, 2006. **Peruvian Andes**. Collected lake sediment cores, mapped glacial geology
- May, 2006. **North Cascades, Washington State**. Installed a Campbell weather station at an alpine study site.
- May, 2006. **British Columbia, Canada**. Collected lake sediment cores and limnological data.
- May-June, 2005. **Peruvian Andes**. Collected lake sediment cores and mapped glacial geology.
- Jun, 2004. **Pacific region, Nicaragua**. Collected lake sediment cores.
- Jul. 2003. **North Cascades, Washington State**. Collected lake sediment cores
- May 2003. **Pacific region, Nicaragua**. Collected lake sediment cores. Project in collaboration with Manuel Roman-Lacayo (University of Pittsburgh, Dept. of Anthropology) and Dr. Robert Dull (University of Texas at Austin, Dept. of Geography and the Environment).
- Feb. 2003. **North Cascades, Washington State**. Collected lake sediment cores and winter limnological data.
- Aug. 2002. **North Cascades, Washington State**. Collected lake sediment cores.
- Jul. 2002. **Yukon Territory, Canada and Alaska**. Collected lake sediment cores.
- Jun. 2002. **Venezuelan Andes**. Collected lake sediment cores.
- Jul. 2001 to Aug. 2001. **Washington State**. Collected GPS data, Puget Lowland Deformation Project.
- Jul. 2001. **San Juan Islands, Washington State**. University of Idaho advanced field camp: Polyphase deformation and geologic mapping.
- May to Jul. 2001. **Idaho, Washington, and Montana** University of Idaho undergraduate field camp.
- Jul. to Aug 2000. **Aleutian Islands, Alaska**. Collected GPS and active tectonics data.
- Jun. 2000. **Italy, Sicily, and Sardinia**. Collected GPS and active tectonics data.
- Jul. to Aug. 1999. **Aleutian Islands, Alaska**. Collected GPS data and measured geologic sections.
- Jul. 1999. **Skagit County, Washington State**. Collected GPS and gravity data, Puget Lowland Deformation project.
- May to Jun. 1999. **Western Nevada and California**. Collected GPS data, Walker Lane Deformation Project.

## Professional Meeting Abstracts:

- *Abrupt Climate Change Recorded in Lake Sediments from the Venezuelan Andes*, Stansell, N.D., Abbott, M.B., Rodbell, D. To be presented at AGU Fall Meeting in San Francisco, Dec. 2009

- *A 1200-Year Record of Abrupt Climate Changes Across the Tropical Americas Identified from Lake Sediments (INVITED)*, Abbott, M.B., Rodbell, D.T., Stansell, N.D., Bird, B., Vuille, M.
- *High-Resolution  $\delta^{18}O$  record of middle-late Holocene hydrologic variability from the central Peruvian Andes (INVITED)*. Rodbell, D.T., Abbott, M.B., Bird, B.W., Stansell, N.D.
- *Late Holocene Climate Variability Recorded in Lake Sediments from Nicaragua*, Stansell, N.D., Rosenmeier, M.F., Abbott, M.B. To be presented at the Geological Society of America meeting in Portland, Oct. 2009
- *Abrupt Late Glacial and Preboreal climate variability in the northern tropical Andes*. Stansell, N.D., Abbott, M.B., Rull, V., Bezada, M., Montoya, E. Presented at AGU Fall Meeting in San Francisco, Dec. 2008
- *A Stable isotopic record of Late Holocene climate change in Pacific Nicaragua*. Rubinov, M., Stansell, N.D., Rosenmeier, M.F., Abbott, M.B., Roman-Lacayo, M. To be presented at AGU Fall Meeting in San Francisco, Dec. 2008
- *Palynological signal for the Younger Dryas in the tropical Venezuelan Andes*. Rull, V., Stansell, N.D., Montoya, E., Bezada, M., Abbott, M.B. Presented at 12<sup>th</sup> International Palynological Congress, Bonn, Germany, Sept. 2008
- *A Younger Dryas Glacierization in the Venezuelan Andes*. Stansell, N.D., Abbott, M.B., Polissar, P.J., Bezada, M. Presented at the AGU Fall Meeting in San Francisco, Dec. 2007
- *Lake sediment record of neo-glacial advances in the southwestern Cordillera Raura, Peruvian Andes*. Stansell, N.D. and Abbott, M.B. Presented at the AGU Fall Meeting in San Francisco, Dec. 2006
- *Last Glacial Maximum Equilibrium-Line Altitude and Paleo-temperature Reconstructions for the Cordillera de Mérida, Venezuelan Andes*. Stansell, N.D., Polissar, P.J., Abbott, M.B. Presented at the Geological Society of America meeting in Salt Lake City, Oct. 2005.
- *Late Quaternary equilibrium-line altitude and climate reconstructions from the Cordillera de Mérida, Venezuela*. Stansell, N.D., Polissar, P.J., Abbott, M.B. Presented at the European Geosciences Union (EGU) annual meeting in Vienna, Austria, Apr. 2005.
- *Lahar hazards and late Holocene paleoecology from Volcán Mombacho, Nicaragua*. Dull, R., Stansell, N., Abbott, M., Roman-Lacayo, M. Presented at the Association of American Geographers annual meeting in Denver, Apr. 2005.
- *Late Holocene Human Settlement and Vegetation Change from Ometepe Island, Nicaragua*. Isaacs, R., Dull, R., Dominguez-Vazquez, G., Stansell, N., Abbott, M. Presented at the Association of American Geographers annual meeting in Denver, Apr. 2005.
- *Late Quaternary Glacial History of the Venezuelan Andes*. Stansell, N.D., Abbott, M. B., Polissar, P. J., Wolfe, A. P., Rull, V., and Bezada, M. Presented at the American Geophysical Union (AGU) annual meeting in San Francisco, Dec. 2004.
- *Hydrologic Variability in the Pacific Northwest during the Past 8000 Years from High-Resolution Studies of Finely Laminated Lake Sediments*. Abbott, M., Nelson, D., Stansell, N., Finney, B. Presented at Mountain Climate Sciences Symposium, Lake Tahoe, May 2004
- *Lacustrine Records of Environmental Change and Geologic Risk from Nicaragua*. Stansell, N., Abbott, M., Roman-Lacayo, M., Dull, R. Presented at the Geological Society of America (GSA) annual meeting in Seattle, Nov. 2003.
- *Late Mesozoic to Early Tertiary and Post-Eocene Polyphase Deformation in the San Juan Islands, Northwestern Washington*. Klinger, M., Stansell, N., Haney, J., Craner, J., Jones, T., Apel, E., Lewis, D., Oldow, J., and McClelland, W. Presented at the GSA Western Cordillera section meeting, May 2002.
- *Transpressional Strain Partitioning in the Aleutian Arc: Compatibility of GPS Velocities and Nonplane Incremental Strain Derived From Earthquake Focal Mechanisms*. Apel, E.V. III, Oldow, J. S., Lewis, D.S., Stansell, N., and Ave Lallemand, H. Presented at the GSA Western Cordillera section meeting, May 2002.

**Service/Synergistic Activities:**

- Session Convener for AGU Fall Meeting in San Francisco (2009)
- Session Convener for the GSA Annual Meeting in Portland Oregon (2009)
- Reviewer for *Journal of Paleolimnology* (2009 to present)
- Reviewer for *Quaternary Research* (2007 to present)
- Reviewer for *Journal of Quaternary Science* (2006 to present)

**Teaching Experience (University of Pittsburgh):**

- Spring, 2009: Lecturer/Instructor for Geomorphology
- Fall, 2008: Teaching Fellow for Environmental Geology (Dr. Rosemary Capo)
- Spring, 2008: Teaching Fellow for Physical Geology (Dr. Daniel Lao-Davila)
- Spring, 2007: Laboratory instructor for Geomorphology
- Fall, 2004 – Spring, 2005: TA mentor for the Department of Geology and Planetary Science
- Spring, 2005: Laboratory instructor for Geomorphology
- Fall, 2004: Teaching fellow for Introduction to Physical Geology (Dr. Thomas Anderson)
- Spring, 2004: Laboratory instructor for Historical Geology
- Fall, 2003: Teaching fellow for Environmental Geology (Dr. Rosemary Capo)
- Spring, 2003: Laboratory instructor for Geomorphology
- Fall, 2002: Teaching assistant for Introduction to Physical Geology (Dr. Charles Jones)

**Awards:**

- 2009: The Ohio State University, Byrd Polar Research Center Postdoctoral Fellowship
- 2007: Univ. of Pittsburgh, Henry M. Leighton Memorial Scholarship
- 2007: Univ. of Pittsburgh, Honors Convocation Honoree
- 2006: Geological Society of America: Graduate Student Research Grant for fieldwork in Venezuela (Presidents award for exceptionally high merit in conception and presentation)
- 2006: Univ. of Pittsburgh, Center for Latin American Studies: Graduate Student Research Grant for fieldwork in Venezuela
- 2004: Univ. of Pittsburgh, Grad Expo -- Best Paper Award
- 2004: Univ. of Pittsburgh, Center for Latin American Studies: Graduate Student Research Grant for fieldwork in Nicaragua
- 2003: Geological Society of America: Graduate Student Research Grant for fieldwork in Nicaragua

**Professional Affiliations:**

- American Geophysical Union (AGU)
- European Geosciences Union (EGU)
- Geological Society of America (GSA)