

**Lester Baker Perry**

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## EDUCATION

**University of North Carolina**, Chapel Hill, NC, 2003-2006

Ph.D. in Geography (Climatology Concentration) – May 2006

Dissertation: *Synoptic Climatology of Northwest Flow Snowfall in the Southern Appalachians*

**Appalachian State University**, Boone, NC, 1996-1998

M.A. in Geography – May 1998

Thesis: *Health Personnel Distribution and Physical Access to Primary Health Care in Andean Bolivia*

**Duke University**, Durham, NC, 1992-1996

B.A. in Comparative Area Studies (Bolivian Andes and Southern Appalachians) – May 1996

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## PROFESSIONAL EXPERIENCE

**Professor of Geography**, Appalachian State University, Department of Geography and Planning – 2018 to present. Teaching undergraduate and graduate geography courses, maintaining an active research agenda, advising students, directing undergraduate and graduate student research, maintaining meteorological research stations, and serving on departmental, college, and university committees.

**Graduate Program Director**, Appalachian State University, Department of Geography and Planning – 2015 to 2019. Directing graduate program in geography; recruiting graduate students; advising all first year graduate students; working closely with Graduate School on all topics related to graduate education and research.

**Associate Professor of Geography**, Appalachian State University, Department of Geography and Planning – 2014 to present. Teaching undergraduate and graduate geography courses, maintaining an active research agenda, advising students, directing undergraduate and graduate student research, maintaining meteorological research stations, and serving on departmental, college, and university committees. Director of Peru Summer Study Abroad program, 2014 to present.

**Assistant Professor of Geography**, Appalachian State University, Department of Geography and Planning – 2008 to 2014. Taught undergraduate and graduate geography courses, maintained an active research agenda, advised students, directed undergraduate and graduate student research, maintained meteorological research stations, and served on departmental, college, and university committees. Founding member of the Appalachian Atmospheric Interdisciplinary Research (AppalAIR) program. Co-director of Andean Ecuador Summer Study Abroad program (2009) and Director of the Peru Summer Study Abroad program, 2010 to 2013.

**Adjunct Assistant Professor of Geography**, Appalachian State University, Department of Geography and Planning – 2006 to 2008. Taught undergraduate geography courses, maintained an active research agenda, advised students, and served on departmental and university committees. Co-director of the Andean Ecuador Summer Study Abroad program in 2007.

**Adjunct Instructor of Geography**, Appalachian State University, Department of Geography and Planning – 1999 to 2006. Taught undergraduate geography courses. Organized and facilitated GIS workshops in the Spatial Outreach

Laboratory (SOL). Organized and directed the Andean Bolivia Summer Study Abroad Program in 1999, 2000, 2001, and 2003.

**Graduate Teaching Assistant**, University of Washington, Department of Geography, 1999 to 2001. Taught *Maps and GIS* and supervised a graduate teaching assistant. Taught two laboratory sections of *Urban GIS* and served as a teaching assistant for *Introducing the Physical Environment* and *Geography of Health and Disease*.

**GIS Laboratory Supervisor and Adjunct Instructor of Geography**, *Appalachian State University, Department of Geography and Planning* – 1998 to 1999. Supervised the Geographic Information Systems (GIS) laboratory and taught four undergraduate courses.

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## PUBLICATIONS

### Refereed Journals

**Perry, L.B.**, A. Seimon, H. Guy, J. Endries, M. Rado, N. Montoya, E. Burton, S. Arias. 2020. Meteorological characteristics of heavy snowfall events in the tropical Andes of southern Peru and Bolivia: 2012-2019. *International Journal of Climatology*, In Preparation.

Matthews, T., **L.B. Perry**, A.C. Elmore, A. Seimon, R.L. Wilby, A. Tait, P. Athans, D. Aryal, D. Shrestha, S. Tuladhar, S.K. Baidya, A. Gajurel, P.A. Mayewski. 2020. Out of thin air: assessing dangerously strong winds on Mount Everest. *Weather*, In Preparation.

Ita Vargas, T., **L.B. Perry**, M. Sugg, I. Moreno, C. Barreto Schuler. 2020. Synoptic patterns associated with wet season onset in the tropical high Andes of southern Peru and Bolivia. *Journal of Applied Meteorology and Climatology*, Under Review.

Jonaitis, J., **L.B. Perry**, A. Seimon, P. Soulé, C. Thaxton, M. Andrade-Flores, T. Ita-Vargas. 2020. Spatiotemporal patterns of ENSO-precipitation relationships in the tropical Andes of southern Peru and Bolivia. *International Journal of Climatology*, Under Review.

**Perry, L.B.**, S.E. Yuter, T. Matthews, P. Wagnon, A. Khadka, D. Aryal, D. Shrestha, A. Tait, M.A. Miller, A. O'Neill, S.R. Rhodes, I. Koch, T.G. Sherpa, S. Tuladhar, S.K. Baidya, S. Elvin, A.C. Elmore, A. Gajurel, P.A. Mayewski. 2020. Direct observations of a Mount Everest Snowstorm from the World's Highest Surface-Based Radar Observations. *Weather*, Under Review.

Matthews, T., **L. B. Perry**, I. Koch, I. D. Aryal, A. Khadka, D. Shrestha, K. Abernathy, A.C. Elmore, A. Seimon, A. Tait, S. Elvin, T. Subash, S.K. Baidya, M. Potocki, S.D. Birkel, S. Kang, P.A. Mayewski, and National Geographic and Rolex's Perpetual Planet Extreme Expedition to Mt. Everest Team. 2020. Going to extremes: installing the world's highest weather stations on Mount Everest. *Bulletin of the American Meteorological Society*, doi: <https://doi.org/10.1175/BAMS-D-19-0198.1>.

Montpellier, E., P.T. Soulé, P.A. Knapp, **L.B. Perry**. 2020. Reconstructing summer upper-level flow in the northern Rocky Mountains using an Alpine Larch (*Larix lyallii* Parl.) tree-ring chronology. *Climate Research* 79: 207-218. <https://doi.org/10.3354/cr01592>

Kinlaw, T., J.W. Sugg, **L.B. Perry**. 2019. Warm season hydroclimatic variability and change in the Appalachian region of the southeastern U.S. from 1950 to 2018. *Atmosphere* 10: 289. <https://doi.org/10.3390/atmos10050289>

Guy, H., A. Seimon, **L.B. Perry**, B.L. Konecky, M. Rado, M. Andrade, M. Potocki, P.A. Mayewski. 2019. Subseasonal variations of stable isotopes in tropical Andean precipitation. *Journal of Hydrometeorology* 20:915-933. DOI: 10.1175/JHM-D-18-0163.1

- Eck, M.E., **L.B. Perry**, P.T. Soulé, J.W. Sugg, D.K. Miller. 2018. Winter climate variability and change in the southern Appalachian Mountains: 1910-2017. *International Journal of Climatology*, 39: 206-217. DOI: 10.1002/joc.5795
- Endries, J.L., **L.B. Perry**, S.E. Yuter, A. Seimon, M. Andrade-Flores, G. Mamani, F. Velarde, R. Winkelmann, M. Rado, N. Montoya, S. Arias. 2018. Radar-observed characteristics of precipitation in the tropical high Andes of southern Peru and Bolivia. *Journal of Applied Meteorology and Climatology*, 57: 1441-1458. DOI: 10.1175/JAMC-D-17-0248.1
- Schauwecker, S., M. Rohrer, C. Huggel, J. Endries, N. Montoya, R. Neukom, **L.B. Perry**, N. Salzmann, M. Schwarb, W. Suarez. 2017. The freezing level in the tropical Andes, Peru: an indicator for present and future glacier extents. *Journal of Geophysical Research Atmospheres* 122: 5172-5189. doi:10.1002/2016JD025943.
- Perry, L.B.**, A. Seimon, M. Andrade-Flores, J.L. Endries, S.E. Yuter, F. Velarde, S. Arias, M. Bonshoms, E.J. Burton, R. Winkelmann, C.M. Cooper, G. Mamani, M. Rado, N. Montoya, N. Quispe. 2017. Characteristics of precipitating storms in glacierized tropical Andean cordilleras of Peru and Bolivia. *Annals of the American Association of Geographers*, 107: 309–322. <http://dx.doi.org/10.1080/24694452.2016.1260439>
- Kronenberg, M., S. Schauwecker, C. Huggel, N. Salzmann, F. Drenkhan, H. Frey, C. Giráldez, W. Gurgiser, G. Kaser, I. Juen, W. Suarez, J.G. Hernández, J.F. Sanmartín, E. Ayros, **L.B. Perry**, M. Rohrer. 2016. The projected precipitation reduction over the Central Andes may severely affect Peruvian glaciers and hydropower production. *Energy Procedia* 97: 270-277. <http://dx.doi.org/10.1016/j.egypro.2016.10.072>
- Sugg, J.W., C.M. Fuhrmann, **L.B. Perry**, D.K. Hall, C.E. Konrad. 2016. Sub-regional snow cover distribution across the southern Appalachian Mountains. *Physical Geography* DOI: 10.1080/02723646.2016.1162020
- Keighton, S., D.K. Miller, D.G. Hotz, P.D. Moore, **L.B. Perry**, L.G. Lee, D.T. Martin. 2016. Northwest flow aspects of Superstorm Sandy in the Central and Southern Appalachian Mountains. *Weather & Forecasting* 31: 173-195. doi: <http://dx.doi.org/10.1175/WAF-D-15-0069.1>
- Martin, D.T., **L.B. Perry**, P.T. Soulé, D.K. Miller. 2015. Snowfall event characteristics from a high-elevation site in the southern Appalachian Mountains. *Climate Research* 63: 171-190. doi: 10.3354/cr01291
- Sugg, J.W., **L.B. Perry**, D.K. Hall, G. Riggs, C.A. Badurek. 2014. Satellite perspectives on the spatial extent of new snowfall in the southern Appalachian Mountains. *Hydrological Processes* 28: 4602-4613. DOI: 10.1002/hyp.10196.
- Perry, L.B.**, A. Seimon, G.M. Kelly. 2014. Precipitation delivery in the tropical high Andes of southern Peru: New findings and paleoclimatic implications. *International Journal of Climatology* 34: 197-215. DOI: 10.1002/joc.3679.
- Kelly, G.M., B.F. Taubman, **L.B. Perry**, P.T. Soulé, J.P. Sherman, P. Sheridan. 2012. Relationships between aerosols and precipitation in the southern Appalachian Mountains. *International Journal of Climatology*, 33: 3016-3028. DOI: 10.1002/joc.3632.
- Kelly, G.M., **L.B. Perry**, B.F. Taubman, P.T. Soulé. 2012. Synoptic classification of 2009-10 precipitation events in the southern Appalachian Mountains, USA. *Climate Research* 55: 1-15. DOI: 10.3354/cr01116.
- Perry, L.B.**, C.E. Konrad, D.G. Hotz, L.G. Lee. 2010. Synoptic classification of snowfall events in the Great Smoky Mountains, USA. *Physical Geography* 31: 156-171.
- Konrad, C.E., **L.B. Perry**. 2009. Relationships between tropical cyclones and heavy rainfall in the Carolina region of the United States. *International Journal of Climatology* 30: 522-534.

- Keighton, S., L. Lee, B. Holloway, D. Hotz, S. Zubrick, J. Hovis, G. Votaw, **L.B. Perry**, G. Lackmann, S. Yuter, C. Konrad, D. Miller, B. Etherton. 2009. A collaborative approach to better understanding northwest flow snowfall in the Southern Appalachians. *Bulletin of the American Meteorological Society* 90: 979-991.
- Perry, L.B.**, C.E. Konrad, T.W. Schmidlin. 2007. Antecedent upstream air trajectories associated with northwest flow snowfall in the Southern Appalachians, USA. *Weather and Forecasting* 22: 334-352.
- Perry, L.B.**, C. E. Konrad. 2006. Relationships between NW flow snowfall and topography in the Southern Appalachians, USA. *Climate Research* 32: 35-47.
- Weldon, A.A., **L.B. Perry**. 2003. Geographic and Literary Perspectives on Pre- and Post-Revolutionary Bolivia: *La Flor de "La Candelaria"*. *BRICHA Review* 1/2: 131-139.
- Perry, L.B.**, W. Gesler. 2000. Physical access to primary health care in Andean Bolivia. *Social Science & Medicine* 50: 1177-1188.

#### Conference Proceedings

- Guy, H., A. Seimon, **L.B. Perry**, M. Rado, R. Winkelmann, M. Andrade-Flores. 2017. Storm-scale variations of water isotopes in the tropical Andes and implications for improving ice core paleoclimate reconstructions. *Proceedings of the International Conference on Climate Change and Its Impacts*, p. 372-375. Electronic publication accessible at <http://www.sgp.org.pe/iccci>
- Eck, M.A., **L.B. Perry**. 2017. Snowfall variability and change in the southern Appalachian Mountains, 1910-2017. *Proceedings of the 74<sup>th</sup> Eastern Snow Conference*.
- Burton, E.J., **L.B. Perry**, M. Bonshoms, A. Seimon, N. Quispe, G. Mamani. 2015. Vertical structure, melting layer heights, and antecedent upstream air trajectories associated with precipitation events during the 2014-15 wet season in the central Andes of Peru. *Proceedings of the 72<sup>nd</sup> Eastern Snow Conference*, 181-190.
- Poremba, R., **L.B. Perry**, A. Seimon, D.T. Martin, A. Tupayachi. 2015. Meteorological characteristics of heavy snowfall in the Cordillera Vilcanota, Peru. *Proceedings of the 72<sup>nd</sup> Eastern Snow Conference*, 167-180.
- Sugg, J.W., C.M. Fuhrmann, **L.B. Perry**, D.K. Hall, C.E. Konrad. 2014. Sub-regional snow cover distribution across the southern Appalachian Mountains. *Proceedings of the 71<sup>st</sup> Eastern Snow Conference*, 130-143.
- Perry, L.B.**, S.J. Keighton, L.G. Lee, D.K. Miller, S.E. Yuter, C.E. Konrad, M.T. Bryant. 2013. Synoptic influences on snowfall event characteristics in the southern Appalachian Mountains. *Proceedings of the 70<sup>th</sup> Eastern Snow Conference*, 141-157.
- Sugg, J.W., **L.B. Perry**, D.K. Hall. 2013. Satellite perspectives on the spatial patterns of new snowfall in the southern Appalachian Mountains. *Proceedings of the 70<sup>th</sup> Eastern Snow Conference*, 23-37.
- Martin, D.A., **L.B. Perry**. 2013. Snowfall event characteristics from a high elevation site in the southern Appalachian Mountains. *Proceedings of the 70<sup>th</sup> Eastern Snow Conference*, 127-139.
- Sugg, J.W., **L.B. Perry**, D.K. Hall. 2012. Satellite and surface perspectives of snow extent in the Southern Appalachian Mountains. *Proceedings of the 69<sup>th</sup> Eastern Snow Conference*: 21-38.
- Hall, D.K., C.M. Fuhrmann, **L.B. Perry**, G.A. Riggs, D.A. Robinson, J.L. Foster. 2010. A comparison of satellite-derived snow maps with a focus on ephemeral snow in North Carolina. *Proceedings of the 67<sup>th</sup> Eastern Snow Conference*: 171-182.
- Fuhrmann, C.M., D.K. Hall, **L.B. Perry**, G.A. Riggs. 2010. Spatial patterns of snow cover in North Carolina: surface and satellite perspectives. *Proceedings of the 67<sup>th</sup> Eastern Snow Conference*: 183-195.

- Yuter, S.E., D.A. Stark, M.T. Bryant, B.A. Colle, **L.B. Perry**, J. Blaes, J. Wolfe, G. Peters. 2008. Forecasting and characterization of mixed precipitation events using the MicroRainRadar. *Proceedings of the Fifth European Conference on Radar Meteorology and Hydrology*.
- Perry, L.B.**, D.K. Miller, S.E. Yuter, L.G. Lee, S.J. Keighton. 2008. Atmospheric influences on new snowfall density in the southern Appalachian Mountains, USA. *Proceedings of the 65<sup>th</sup> Eastern Snow Conference*: 123-133.
- Perry, L.B.**, C.E. Konrad, D. Hotz, L.G. Lee. 2007. Synoptic classification of snowfall events in the Great Smoky Mountains, USA. *Proceedings of the 64<sup>th</sup> Eastern Snow Conference*: 207-215.
- Perry, L.B.**, C.E. Konrad. 2006. Synoptic patterns associated with the record snowfall of 1960 in the Southern Appalachians. *Proceedings of the 63<sup>rd</sup> Eastern Snow Conference*: 55-64.
- Perry, L.B.**, C.E. Konrad. 2005. The influence of the Great Lakes on snowfall patterns in the Southern Appalachians. *Proceedings of the 62<sup>nd</sup> Eastern Snow Conference*: 279-289.
- Perry, L.B.**, C.E. Konrad. 2004. Northwest flow snowfall in the Southern Appalachians: spatial and synoptic patterns. *Proceedings of the 61<sup>st</sup> Eastern Snow Conference*: 179-189.

#### Other Publications

- Perry, L.B.** 2015. Local former Duke player pays tribute to Coach K. *Asheville Citizen-Times*, January 24, 2015: <http://www.citizen-times.com/story/sports/2015/01/24/local-former-duke-player-pays-tribute-coach/22271865/>
- Perry, L.B.**, M.W. Mayfield, K. Schroeder, F. Bahnson. 2004. Mountain geography, GIS, and globalization in Andean Bolivia. In *Teaching & Learning at Appalachian 7*: 2-3. Boone, NC: Faculty and Academic Development, Appalachian State University.
- Perry, L.B.** 2002. Weather and climate in North Carolina. In *North Carolina: People and Environments*, eds. O. Gade, J.E. Young, A.B. Rex, with L.B. Perry. Boone, NC: Parkway Publishers, Inc.
- Perry, L.B.** 2001. School of the Americas. In *Z Magazine*, January 2001.
- Perry, L.B.**, N.G. Lineback. 2000. Healthy and Wealthy? In *Geography in the News*, ed. N.G. Lineback, # 539 (September 29, 2000).
- Perry, L.B.**, N.G. Lineback. 1997. The deadly Ebola virus! In *Geography in the News*, ed. Neal G. Lineback, # 405 (May 13, 1997). Boone, NC: Appalachian State University.
- Perry, L.B.**, N.G. Lineback. 1997. The problem with free food. In *Geography in the News*, ed. Neal G. Lineback, # 397 (March 14, 1997). Boone, NC: Appalachian State University.

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#### GRANTS

##### Extramural (Funded, Pending, Not Funded)

- Perry, L.B.**, T.K. Matthews, M. Rado, S. Arias, H. Guy. *Climate-Glacier Interactions on Nevado Ausangate, Peru*. National Geographic Society, Alpine Climate Change: 1 January to 31 December 2020. \$99,705. Not Funded.
- Thaxton, C.S., J.P. Sherman, **L.B. Perry**. 2019. *MRI: Acquisition: Mobile Integrated Platform for Atmospheric Research (Mobile Skycast™) at Appalachian State University*. National Science Foundation, Physical and Dynamic Meteorology (PDM): 1 August 2019 to 31 July 2020. \$857,124. Not Funded.

- Perry, L.B.** 2018. *Everest: Life at the Extremes*. National Geographic Society: 1 November 2018 to 30 June 2019. **\$33,751.78. Funded.**
- Swarthout, R., B. Taubman, J. Sherman, C. Thaxton, **L.B. Perry**. 2017. *MRI: Acquisition of an Aerosol Mass Spectrometer to Bridge the Gap between Trace Gas and Aerosol Research at Appalachian State University's AppalAIR Observatory*. National Science Foundation, Physical and Dynamic Meteorology (PDM): 1 August 2017 to 31 July 2020. \$692,780. Not Funded.
- Mayewski, P.A., A. Seimon, **L.B. Perry**, S.D. Birkel. 2015. *Collaborative Research: Ultra-High-Resolution Investigation of High Andean Snow and Ice Chemistry to Improve Paleoclimatic Reconstruction and Enhance Climate Prediction*. National Science Foundation, Paleo Perspectives on Climate Change (P2C2): 1 June 2016 to 31 May 2019. **\$1,073,921. Funded.**
- Mayewski, P.A., A. Seimon, **L.B. Perry**, S.D. Birkel. 2014. *Collaborative Research: Ultra-High-Resolution Investigations of High Andean Snow and Ice Stratigraphy from the Reanalysis Era as a basis for Paleoclimatic Reconstructions*. National Science Foundation, Paleo Perspectives on Climate Change (P2C2): 1 June 2015 to 31 May 2018. \$1,283,972. Not Funded.
- Mayewski, P.A., A. Seimon, S.D. Birkel, **L.B. Perry**. 2013. *Collaborative Research: Ultra-High-Resolution Investigation of Central Andes Past Climate*. National Science Foundation, Paleo Perspectives on Climate Change (P2C2): 1 June 2014 to 31 May 2017. \$1,240,399. Not Funded.
- Perry, L.B.** 2013. *CAREER: Multiscale Investigations of Tropical Andean Precipitation*. National Science Foundation; Physical and Dynamic Meteorology (PDM), Climate and Large Scale Dynamics (CLD), Geography and Spatial Science (GSS): 1 May 2014 to 30 April 2019. **\$494,296. Funded.**
- Sugg, J.W., **L.B. Perry**. 2013. Cordillera Vilcanota Research Expedition. Association of American Geographers (AAG), Marcus Fund in Physical Geography: 1 July 2013 to 31 August 2013. **\$2,000. Funded.**
- Seimon, A., **L.B. Perry**. 2012. *The Andean Isotope Model: Applying a New Tool to Decode Climatological Signals Preserved in Tropical Ice Cores*. National Science Foundation, Paleo Perspectives on Climate Change (P2C2). \$463,852. Not Funded.
- Perry, L.B.** 2012. *CAREER: Multiscale Investigations of Orographic Snowfall*. National Science Foundation, Physical and Dynamic Meteorology (PDM). \$483,963. Not Funded.
- Seimon, A., T. Seimon, **L.B. Perry**. 2012. *Detecting Climate Change and Its Impacts in the Tropical High Andes*. JBF Foundation: 1 March 2012 to 31 August 2013. **\$15,000. Funded.**
- Hall, K.Q., **L.B. Perry**, M. Lanoix, A.M. Cremaldi. 2012. *Science and Values: The Case of Climate Change*. North Carolina Space Grant. \$5,000. Not Funded.
- Barros, A.P., D. Genereux, **L.B. Perry**, M.A. Medina, W. Li, H.S. Neufeld, J.D. Colby, J.C. Whitehead, R. Morse, C. Boyle. 2011. *WSC Category 2 – Collaborative Research: Balancing Water Needs in Changing Mountain Landscapes – The Southern Appalachian Headwaters Project*. National Science Foundation, Water, Sustainability, and Climate (WSC). \$5,041,740. Not Funded.
- Taubman, B.F., L.E. England, **L.B. Perry**, J.P. Sherman. 2010. *Climate Action Network through Direct Observations and Outreach (CAN-DOO): An Expanded Model for Bringing Climate Science and Stewardship to the Classroom*. Environmental Protection Agency. \$99,798. Not Funded.
- Perry, L.B.**, A. Seimon, T. Seimon, A. Tupayachi, K. Yager, P. Sowell. 2010. *Detecting Climate Change and Its Impacts in the Tropical High Andes*. National Geographic Society, Committee on Research and Exploration. \$19,900. Not Funded.

Sherman, J.P., H.S. Neufeld, R.E. Emanuel, **L.B. Perry**, B.F. Taubman. 2010. *MRI-R2: Acquisition of Integrated Research Instrumentation for the Atmospheric Interdisciplinary Research Program at Appalachian State University*. National Science Foundation, Physical and Dynamic Meteorology. \$1,081,649. Not Funded.

Taubman, B.F., **L.B. Perry**, J.P. Sherman. 2010. *Climate Action Network through Direct Observations and Outreach (CAN-DOO): Promoting Climate Science Awareness through Public Outreach, STEM Education, and Citizen Science*. National Aeronautics and Space Administration SMD Education and Public Outreach, 1 January 2010 to 31 December 2012, **\$499,970. Funded.**

Sherman, J.P., **L.B. Perry**, B.F. Taubman. 2009. *Observational and Modeling Studies of Aerosol Impacts on Southern Appalachian Regional Solar Radiation, Weather, and Climate*. National Oceanic and Atmospheric Administration, Atmospheric Composition and Climate Program. \$392,316. Not Funded.

Emanuel, R.E., H.S. Neufeld, **L.B. Perry**, J.P. Sherman, B.F. Taubman. 2009. *RUI: Acquisition of a Mobile Tower System for Interdisciplinary Atmospheric Research*. National Science Foundation, Earth Sciences Instrumentation and Facilities: 1 June 2011 to 30 August 2013. **\$191,397. Funded.**

Taubman, B.F., **L.B. Perry**, J.P. Sherman. 2008. *Climate Action Network through Direct Observations and Outreach (CAN-DOO): Promoting Climate Science Awareness through Public Outreach, STEM Education, and Citizen Science*. National Aeronautics and Space Administration SMD Education and Public Outreach. \$425,103. Not Funded.

Miller, D.K., **L.B. Perry**, S.E. Yuter. 2009. *Improving Snowfall Forecasts in Western North Carolina*. Renaissance Computing Initiative of North Carolina (RENCI), 1 January 2009 to 30 April 2009, **\$10,000. Funded.**

Emanuel, R.E., H.E. Neufeld, **L.B. Perry**, J.P. Sherman, B.F. Taubman. 2008. *RUI: Acquisition of a Mobile Tower System for Interdisciplinary Atmospheric Research*. National Science Foundation, Earth Sciences Instrumentation and Facilities. \$176,107. Not Funded.

**Perry, L.B.**, D.K. Miller, S.E. Yuter. 2007. *Improving Snowfall Forecasts in Western North Carolina*. University of North Carolina General Administration Research Competitiveness Fund, 7 December 2007 to 30 June 2008, **\$84,740. Funded.**

**Perry, L.B.**, A.G. Klein. 2000. *Glacier Monitoring and Mapping in the Ancochuma Massif, Cordillera Real, Bolivia*. American Alpine Club, Field Research Grant, 1 July 2000 to 15 August 2000, **\$300. Funded.**

#### Intramural (Funded or Pending Only)

**Perry, L.B.** 2020. *Precipitation-Climate-Glacier Interactions in the Hindu Kush-Karakoram-Himalaya Region*. Graduate Research Associate Mentoring (GRAM) Award, 15 August 2020 to 15 May 2022, **\$24,000.**

**Perry, L.B.** 2019. *Observations of Snow Particle Characteristics during Snow Events in the Southern Appalachian Mountains*. Office of Student Research Undergraduate Research Assistantship, 1 January 2019 to 15 May 2019, **\$1,000.**

**Perry, L.B.** 2013. *Multiscale Investigations of Tropical Andean Precipitation*. University Research Council. 1 July 2014 to 30 June 2015. **\$4,980.**

Soulé, P.T., **L.B. Perry**. 2012. *Shared Learning Outcomes Development Grants for Faculty Teams: Global Climate Change*. General Education Program: 1 June to 30 July 2012. **\$250.**

**Perry, L.B.** 2012. *Dr. Stephen Bezruchka: Health Disparities in the U.S., Global Health Inequalities, Importance of Early Life, and Altitude Illness*. External Scholars Grant. February 2012. **\$500**

- Perry, L.B.** 2010. *El Niño-Southern Oscillation (ENSO) Influences on Snowfall Processes and Patterns in the Southern Appalachian Mountains*. Office of Student Research Undergraduate Research Assistantship. 1 January to 15 May 2010. **\$1,000**.
- Utter, A.C., **L.B. Perry**. 2009. *Dr. Henry Perry: From Boone to Bolivia to Bangladesh and Beyond*. External Scholars Grant. April 2009. **\$300**
- Perry, L.B.**, B.F. Taubman. 2009. *Appalachian Atmospheric Interdisciplinary Research (AppalAIR): Precipitation, Aerosols, and Climate*. Graduate Research Associate Mentoring (GRAM) Award, 15 August 2009 to 15 May 2011, **\$20,000**.
- Perry, L.B.** 2009. *Climatological and Ecological Investigations in the Cordillera Vilcanota, Peru*. Board of Trustees Faculty International Research Travel Grant, 1-30 August 2009, **\$3,000**.
- Perry, L.B.** 2008. *Synoptic Climatology, Vertical Structure, and Spatial Patterns of Snowfall Events in the Southern Appalachian Mountains*. Office of Student Research Undergraduate Research Assistantship, 1 September 2008 to 30 April 2009, **\$2,000**.
- Soulé, P.T., **L.B. Perry**, G.L. Katz. 2008. *Global Environmental Change*. Summer Grants for General Education Development, 15 May to 15 August 2008, **\$2,000**.
- Perry, L.B.** 2008. *Dr. Andrew Klein: Tracking Cryospheric Change with Remote Sensing and GIS*. External Scholars Grant. March 2008. **\$750**
- Perry, L.B.** 2008. *Snowfall Patterns and Processes in the Southern Appalachians*. University Research Council, Appalachian State University, 15 December 2007 to 30 June 2008, **\$3,218**.

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## PROFESSIONAL PRESENTATIONS

### Oral Presentations

- Perry, L.B.**, T. Matthews, A. Elmore, K. Abernathy, D. Aryal, D. Shrestha, A. Khadka, and National Geographic and Rolex's Perpetual Planet Extreme Expedition to Mt. Everest Team. 2020. *Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth*. Annual Meeting of the American Meteorological Society, Boston, MA.
- Matthews T, **Perry L.B.**, Aryal D, Shrestha D, Khadka A, National Geographic and Rolex's Perpetual Planet Extreme Expedition to Mount Everest Team. 2019. *New Heights in Glacier-Climite Research: Initial Insights from the Highest Weather Stations on Earth*. Annual Meeting of the American Geophysical Union, San Francisco, CA.
- Khadka, A. **L.B. Perry**, T. Matthews, D. Aryal, D. Shrestha. 2019. *Meteorological Analysis of High Altitude Weather Station Data from Everest Region*. Annual Meeting of the American Geophysical Union, San Francisco, CA.
- Ita Vargas, T. **L.B. Perry**, J.A. Jonaitis, H. Guy. 2019. *Synoptic Patterns Associated with Wet Season Onset in the Tropical High Andes of Peru and Bolivia*. Annual Meeting of the American Association of Geographers, Washington, D.C.
- Jonaitis, J.A., **L.B. Perry**, A. Seimon, C.S. Thaxton, M.F. Andrade-Flores, M. Rado, T. Ita Vargas. 2018. *Spatiotemporal Differences of ENSO-Precipitation Relationships in the Tropical Andes of Southern Peru and*



- Bolivia. Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, TN.
- Eck, M.A., **L.B. Perry**. 2018. *Understanding Winter Temperature and Snowfall in the Anomalous Southern Appalachian Mountains: A 2017-18 Winter Review*. 75<sup>th</sup> Eastern Snow Conference, College Park, MD.
- Perry, L.B.**, and co-authors. 2018. *Precipitation Variability and ENSO Relationships in the Tropical High Andes of Southern Peru and Bolivia*. Annual Meeting of the American Association of Geographers, New Orleans, LA.
- Cooper, C.M., **L.B. Perry**. 2018. *Reflecting on Broader Impacts: Studying Abroad in the Tropical Andes*. Annual Meeting on the American Association of Geographers, New Orleans, LA.
- Seimon, A., H. Guy, **L.B. Perry**, J. Endries, E. Burton, S. Arias, N. Quispe, N. Montoya, M. Rado, M. Andrade, R. Winkelmann, M. Peñaloza. 2018. *Storm-scale Variations of Water Isotopes in the Tropical High Andes*. Annual Meeting of the American Meteorological Society, Austin, Texas.
- Guy, H., A. Seimon, **L.B. Perry**, M. Rado, R. Winkelmann, M. Andrade. 2017. *Storm-scale Variations of Water Isotopes in the Tropical Andes and Implications for Improving Ice Core Paleoclimate Reconstructions*. International Congress on Climate Change and Its Impacts, Huaraz, Peru.
- Perry, L.B.**, M. Rado, A. Seimon, J. Endries, E.J. Burton, S.E. Yuter, R. Winkelmann, M. Andrade, N. Montoya, S. Arias. 2017. *Precipitation Characteristics in Tropical Andean Glacierized Cordilleras of Peru and Bolivia: 2014-17*. International Congress on Climate Change and Its Impacts, Huaraz, Peru.
- Eck, M., **L.B. Perry**. 2017. *Winter Climate Variability and Trends in the Southern Appalachian Mountains, 1895-2017*. 74<sup>th</sup> Annual Eastern Snow Conference, Ottawa, Canada.
- Perry, L.B.**, A. Seimon, M. Andrade, J.L. Endries, S.E. Yuter, F. Velarde, S. Arias, M. Bonshoms, E.J. Burton, R. Winkelmann, C.M. Cooper, G. Mamani, M. Rado, N. Montoya, N. Quispe. 2016. *Precipitation Characteristics in Glacierized Tropical Andean Cordilleras of Peru and Bolivia*. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, SC.
- Burton, E.J., **L.B. Perry**, A. Seimon, J.L. Endries, S. Arias, M. Rado, N. Montoya, J.H. Thaggard. 2016. *Synoptic Patterns Associated with Heavy Snowfall Events on the Quelccaya Icecap of Peru*. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, SC.
- Endries, J.L., **L.B. Perry**, S.E. Yuter, A. Seimon, M. Andrade-Flores, G. Mamani, M. Bonshoms, F. Velarde, R. Winkelmann, M. Rado, N. Montoya, S. Arias. *Looking Vertically: Vertical Structure and Character of Precipitation in the Tropical High Andes of Bolivia and Southern Peru*. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, SC.
- Montpellier, E.E., **L.B. Perry**, I. Moreno, M. Andrade-Flores, J.L. Endries, A. Seimon, F. Velarde, M. Rohrer, C. Huggel. 2016. *ENSO-Precipitation Relationships in the Central Andes*. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, SC.
- Perry, L.B.**, J.L. Endries, M. Andrade, F. Velarde, R. Winkelmann, E.J. Burton, A. Seimon. 2016. *Spatiotemporal Patterns, Atmospheric Circulation, and Vertical Structure of Precipitation in the Cordillera Real of Bolivia*. Annual Meeting of the Association of American Geographers, San Francisco, CA.
- Perry, L.B.**, A. Seimon, A. Tupayachi, R.J. Poremba, G. Mamani, E.J. Burton, M. Rado, N. Montoya, C. Rodda, P. Mayewski. 2015. *Características de los eventos de nieve en la Cordillera Vilcanota e implicaciones paleoclimatológicas*. Seminario de Glaciología y Cambio Climático. Cusco, Perú.

- Cooper, C.M., **L.B. Perry**, A. Seimon. 2014. *An Integrated Approach to Andean Precipitation Research through Citizen Science and Study Abroad Initiatives in the Tropical Andes*. Southeastern Division of the Association of American Geographers Annual Meeting, Athens, GA.
- Seimon, A., **L.B. Perry**. 2014. *Modes of Tropical Andean Precipitation Seasonality Encoded in Ice Core Isotope Profiles*. LOTRED-SA Third Symposium, Climate Change and Human Impact in Central and South America over the Last 2000 Years: Observations and Models. Medellín, Colombia.
- Perry, L.B.**, R.J. Poremba, A. Seimon, D.T. Martin, G.M. Kelly, A. Tupayachi. 2014. *Snowfall Event Characteristics in the Cordillera Vilcanota, Peru*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Seimon, A., **L.B. Perry**. 2014. *New Methods to Decipher Climatological Signals Preserved in Low-Latitude Ice Cores*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Miller, D.K., **L.B. Perry**, J.A. Welker. 2014. *The Impact of Latent Heat Fluxes over Soil Surfaces on Snowfall Accumulation for Northwest Flow Snow in the Southern Appalachians*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Keighton, S.J., L.G. Lee, D.G. Hotz, **L.B. Perry**, D.K. Miller. 2014. *Ongoing Collaborative Study of Northwest Flow Snow (NWFS) in the Southern Appalachians*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Keighton, S.J., L.G. Lee, D.G. Hotz, **L.B. Perry**, D.K. Miller. 2014. *Unique Northwest Flow Aspects of Sandy in the Southern Appalachians*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Sugg, J.W., C.M. Fuhrmann, **L.B. Perry**, D.K. Hall, C.E. Konrad. 2014. *Intraregional Variation in Fractional Snow Cover across the Southern Appalachian Mountains*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Hotz, D.G., **L.B. Perry**, S.J. Keighton. 2013. *Northwest Flow Aspects of Sandy – Part III: Moisture and Trajectory Analysis in the Southern Appalachians*. 38<sup>th</sup> Annual National Weather Association, Charleston, SC.
- Moore, P.D., L.G. Lee, S. Zubrick, **L.B. Perry**. 2013. *Northwest Flow Aspects of Sandy – Part IV: Radar and Satellite Observations*. 38<sup>th</sup> Annual National Weather Association, Charleston, SC.
- Perry, L.B.**, S.J. Keighton, L.G. Lee, D.K. Miller, S.E. Yuter, C.E. Konrad, M.T. Bryant. 2013. *Synoptic influences on snowfall event characteristics in the southern Appalachian Mountains*. 70<sup>th</sup> Eastern Snow Conference, Huntsville, ON, Canada.
- Sugg, J.W., **L.B. Perry**, D.K. Hall. 2013. *Satellite perspectives on the spatial patterns of new snowfall in the southern Appalachian Mountains*. 70<sup>th</sup> Eastern Snow Conference, Huntsville, ON, Canada.
- Martin, D.A., **L.B. Perry**. 2013. *Snowfall event characteristics from a high elevation site in the southern Appalachian Mountains*. 70<sup>th</sup> Eastern Snow Conference, Huntsville, ON, Canada.
- Kelly, G.M., **L.B. Perry**, B.F. Taubman. 2011. *Aerosol-precipitation interactions in the southern Appalachian Mountains*. Annual Meeting of the Association of American Geographers, Seattle, WA.
- Taubman, B.F., **L.B. Perry**, J.P. Sherman, G.M. Kelly, J. Markham, C. Haden, A. LaChance, 2011. *CAN-DOO: Climate Action Network through Direct Observations and Outreach*. Annual Meeting of the Association of American Geographers, Seattle, WA.
- Perry, L.B.**, A. Seimon, G.M. Kelly. 2010. *Precipitation patterns in the Cordillera Vilcanota, Peru*. II International Symposium: Reconstructing Climate Variations in South America and the Antarctic Peninsula over the last 2000 years, Valdivia, Chile.

- Seimon, A., **L.B. Perry**. 2010. *Cordillera Vilcanota, Peru precipitation studies: explicit simulation of oxygen stable isotope ratio profiles in seasonal snowfall*. II International Symposium: Reconstructing Climate Variations in South America and the Antarctic Peninsula over the last 2000 years, Valdivia, Chile.
- Perry, L.B.**, D.G. Hotz, S.J. Keighton, L.G. Lee, C.E. Konrad, J.G. Dobson, D.K. Hall. 2010. *Overview of the 2009-2010 snow season in the southern Appalachian Mountains*. 67<sup>th</sup> Eastern Snow Conference, Hancock, MA.
- Hall, D.K., C.M. Fuhrmann, **L.B. Perry**, G.A. Riggs, D.A. Robinson, J.L. Foster. 2010. *A comparison of satellite-derived snow maps with a focus on ephemeral snow in North Carolina*. 67<sup>th</sup> Eastern Snow Conference, Hancock, MA.
- Fuhrmann, C.M., D.K. Hall, **L.B. Perry**, G.A. Riggs. 2010. *Spatial patterns of snow cover in North Carolina: surface and satellite perspectives*. 67<sup>th</sup> Eastern Snow Conference, Hancock, MA.
- Perry, L.B.**, D.K. Miller, S.E. Yuter, J. L'Heureux, G.M. Kelly. 2009. *Snowfall patterns and processes in the southern Appalachian Mountains: Preliminary results from an interdisciplinary field campaign, 2006-2009*. Southeastern Division of the Association of American Geographers Annual Meeting, Knoxville, TN.
- Yuter, S.E., D.A. Stark, M.T. Bryant, B.A. Colle, **L.B. Perry**, J. Blaes, J. Wolfe, G. Peters. 2008. *Forecasting and characterization of mixed precipitation events using the MicroRainRadar*. ERAD 2008 – The Fifth European Conference on Radar Meteorology and Hydrology, Helsinki, Finland.
- Perry, L.B.**, C.E. Konrad, D.G. Hotz, L.G. Lee. 2007. *Synoptic classification of snowfall events in the Great Smoky Mountains, USA*. 64<sup>th</sup> Eastern Snow Conference (in conjunction with CGU/CMOS/AMS Congress), St. John's, NF, Canada.
- Konrad, C.E., **L.B. Perry**. 2007. *Relationships between tropical systems and heavy rainfall in the Carolina region of the United States*. American Meteorological Society Annual Meeting, San Antonio, TX.
- Perry, L.B.**, C.E. Konrad. 2005. *Synoptic climatology of northwest flow snowfall in the Southern Appalachians*. Southeastern Division of the Association of American Geographers Annual Meeting, West Palm Beach, FL.
- Konrad, C.E., **L.B. Perry**, A. Smith. 2005. *Regional variations in the synoptic patterns associated with warm season heavy rainfall across the eastern United States*. Southeastern Division of the Association of American Geographers Annual Meeting, West Palm Beach, FL.
- Perry, L.B.**, C.E. Konrad. 2005. *The Influence of the Great Lakes on snowfall patterns in the Southern Appalachians*. 62<sup>nd</sup> Eastern Snow Conference, Waterloo, ON, Canada.
- Perry, L.B.**, C.E. Konrad. 2004. *Northwest flow snowfall in the Southern Appalachians: spatial and synoptic patterns*. 61<sup>st</sup> Eastern Snow Conference, Portland, ME.
- Konrad, C.E., **L.B. Perry**. 2004. *Easterly flow snowfall in the Southern Appalachians: spatial and synoptic patterns*. 61<sup>st</sup> Eastern Snow Conference, Portland, ME.
- Perry, L.B.** 2003. *Rural restructuring, social capital, and health in North Carolina mountain communities*. Association of American Geographers, New Orleans, LA.
- Perry, L.B.** 1999. *GIS as a tool in International Health initiatives*. Annual Meeting of the American Public Health Association, Chicago, IL.
- Weldon, A.A., **L.B. Perry**. 1999. *Literary and geographic perspectives on post-revolutionary Bolivia*. Blue Ridge International Conference on Humanities (BRICHA), Boone, NC.

- Perry, L.B.** 1999. *Applications of GIS, GPS, and remote sensing in social studies*. North Carolina Council of Social Studies, Greensboro, NC.
- Perry, L.B.** 1998. *Health personnel distribution and physical access to primary health care in Andean Bolivia*. Annual Meeting of the Association of American Geographers, Boston, MA.
- Felix, L., **L.B. Perry**. 1997. *GIS mapping of the New River State Park*. Linear Parks Conference, Lake Junaluska, NC.
- Perry, L.B.** 1997. *Un análisis de la distribución de personal de salud en el norte del departamento de La Paz, Bolivia*. Conference of Latin Americanist Geographers, Arequipa, Peru.

#### Poster Presentations

- Perry, L.B.**, T. Matthews, D. Aryal, D. Shrestha, A. Khadka, and National Geographic and Rolex's Perpetual Planet Extreme Expedition to Mt. Everest Team. 2020. *Automatic Weather Stations at Extreme Elevations on Mt. Everest: Initial Observations and Applications*. Annual Meeting of the American Meteorological Society, Boston, MA.
- Reinhardt K., Emanuel R.E., Johnson D.M., **Perry L.B.** 2018. *How cloudy is too cloudy? A test of the light-limitation hypothesis in a temperate mountain cloud forest*. Ecological Society of America Annual Meeting, New Orleans, LA.
- Guy, H., **L.B. Perry**, M.A. Eck, S. Rhodes, S.E. Yuter. *Observations of Snow Particle Characteristics during Snow Events in the Southern Appalachian Mountains*. 75<sup>th</sup> Eastern Snow Conference, College Park, MD.
- Ita Vargas, T., **L.B. Perry**, H. Guy, J. Jonaitis. 2018. *Synoptic Patterns Associated with Early and Late Onset and End of the Wet Season in the Southern Peruvian Andes*. 75<sup>th</sup> Eastern Snow Conference, College Park, MD.
- Guy, H., A. Seimon, **L.B. Perry**, M. Rado, M. Andrade. 2018. *Subseasonal Variability of Stable Water Isotopes in Tropical Andean Precipitation*. Annual Meeting of the European Geophysical Union, Vienna, Austria.
- Jonaitis, J., **L.B. Perry**, A. Seimon, M.F. Andrade, M. Rado, H. Guy, T. Ita Vargas. 2018. *Spatiotemporal Variability of Precipitation in the Tropical Andes of S. Peru and Bolivia during the 2015-16 Strong El Niño*. Annual Meeting of the American Association of Geographers, New Orleans, LA.
- Seimon, A., H. Guy, **L.B. Perry**, M. Rado. 2017. *Storm-Scale Variations of Water Isotopes in the Tropical Andes: Using Observations and Modeling to Improve Ice Core Paleoclimate Reconstruction*. Past Global Changes (PAGES) 5<sup>th</sup> Open Science Meeting, Zaragoza, Spain.
- Schauwecker, S., M. Kronenberg, M. Rohrer, C. Huggel, J. Endries, N. Montoya, R. Neukom, **L.B. Perry**, N. Salzmann, M. Schwarb, W. Suarez. 2017. *Relevance of Future Snowfall Level Height in the Peruvian Andes for Glacier Loss in the 21st Century under Different Emission Scenarios*. European Geophysical Union General Assembly, Vienna, Austria.
- Endries, J.L., **L.B. Perry**, S.E. Yuter, A. Seimon, M. Andrade-Flores, G. Mamani, M. Bonshoms, F. Velarde, R. Winkelmann, M. Rado, N. Montoya, S. Arias. 2017. *Vertical Structure and Character of Precipitation in the Tropical High Andes of Bolivia and Southern Peru*. Annual Meeting of the American Meteorological Society, Seattle, WA.
- Thaggard, J.H., **L.B. Perry**, S. Arias, E.J. Burton, M. Rado, N. Montoya, A. Seimon. 2016. *Observations from New Meteorological Stations on the Quelccaya Icecap and Quisoquipina Glacier, Cordillera Vilcanota, Peru: 2014-2016*. Annual Meeting of the Southeastern Division of the American Association of Geographers, Columbia, SC.

- Burton, E.J., **L.B. Perry**, A. Seimon, J.L. Endries, M. Rado, S. Arias. 2016. *Synoptic patterns associated with snowfall events on the Quelccaya Icecap of Peru during the 2014-15 wet season*. 73<sup>rd</sup> Eastern Snow Conference, Columbus, OH.
- Endries, J.L., **L.B. Perry**, S.E. Yuter, A. Seimon, M. Andrade, G. Mamani, M. Bonshoms, F. Velarde, R. Winkelmann, N. Montoya, N. Quispe. 2016. *Vertical structure and character of precipitation in the tropical high Andes of southern Peru and Bolivia*. 73<sup>rd</sup> Eastern Snow Conference, Columbus, OH.
- Schauwecker, S., M. Rohrer, C. Huggel, N. Salzmann, N. Montoya, J. Endries, **L.B. Perry**. 2016. *Snow and glaciers in the tropics: the importance of snowfall level and snow line altitude in the Peruvian Cordilleras*. European Geophysical Union General Assembly, Vienna, Austria.
- Cooper, C.M., **L.B. Perry**, A. Seimon, M. Rado, A. Tupayachi. 2016. *Citizen science climate observations in data scarce regions of the tropical Andes*. Annual Meeting of the Association of American Geographers, San Francisco, CA.
- Burton, E.J., **L.B. Perry**, A. Seimon, J.L. Endries, M. Rado, S. Arias. 2016. *Synoptic patterns associated with snowfall events on the Quelccaya Icecap of Peru during the 2014-15 wet season*. National Conference of Undergraduate Research, Asheville, NC.
- Burton, E.J., **L.B. Perry**, M. Bonshoms, G. Mamani, N. Quispe. 2015. *Vertical structure, melting layer heights, and antecedent upstream air trajectories associated with precipitation events in the central Andes of Peru*. 72<sup>nd</sup> Eastern Snow Conference, Sherbrooke, Quebec.
- Poremba, R.J., **L.B. Perry**, A. Seimon, D.T. Martin, A. Tupayachi. 2015. *Meteorological characteristics of heavy snowfall events in the Cordillera Vilcanota, Peru*. 72<sup>nd</sup> Eastern Snow Conference, Sherbrooke, Quebec.
- Krintz, I., J.P. Sherman, **L.B. Perry**, M. Link, Y. Zhou. 2014. *A study of aerosol optical and chemical properties based on source region, local, and synoptic meteorology at a southeast U.S. regionally representative site*. American Geophysical Union Fall Meeting, San Francisco, CA.
- Poremba, R.J., **L.B. Perry**, A. Seimon, D.T. Martin, A. Tupayachi. 2014. *Monthly and annual patterns from new meteorological stations in the Cordillera Vilcanota, Peru*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Tuberty, S., J. Balcomb, K. Cockerill, J. Colby, C. Gu, **L.B. Perry**, B. Swinson, A. Cox, C. Snow, B. Tate, K. Beyersdorf, H.-M. Chu, B. Davis, W. Jones, M. Lipinski, M. McGlasson, A. Mouro. 2014. *Effects of winter road salt application and episodic high conductivity stormwater pulses on Southern Appalachian headwater stream macroinvertebrates*. 71<sup>st</sup> Eastern Snow Conference, Boone, NC.
- Sugg, J., A. Seimon, D. Martin, **L.B. Perry**, C. Rodda, S. Haines, S. Sneed, P. Mayewski. 2013. *Climate-glacier interaction in the tropical Andes: field observations from the Cordillera Vilcanota, Peru*. Annual meeting of the Southeastern Division of the Association of American Geographers, Roanoke, VA.
- Perry, L.B.**, J. Pope, B.F. Taubman, G.M. Kelly, J.P. Sherman. 2012. *Atmospheric research and public outreach activities at Grandfather Mountain, North Carolina*. American Geophysical Union Fall Meeting, San Francisco, CA.
- Kelly, G.M., B.F. Taubman, **L.B. Perry**, J.P. Sherman, J.E. Thomley, W. Patoprsty. 2012. *CAN-DOO informal climate science education: a university and K-12 partnership*. Annual meeting of the Southeastern Division of the Association of American Geographers, Asheville, NC.
- Sherwood, B., **L.B. Perry**. 2012. *Observations of snow crystal type and degree of riming during snow events in the southern Appalachian Mountains*. 69<sup>th</sup> Eastern Snow Conference, Frost Valley, NY.

- Sugg, J.W., **L.B. Perry**, D.K. Hall. 2012. *Satellite and surface perspective of snow extent in the southern Appalachian Mountains*. 69<sup>th</sup> Eastern Snow Conference, Frost Valley, NY.
- Welker, J., and **L.B. Perry**. 2012. *Backward air trajectories associated with snowfall events in the southern Appalachian Mountains: 2006 to 2011*. 69<sup>th</sup> Eastern Snow Conference, Frost Valley, NY.
- Taubman, B.F., J.P. Sherman, **L.B. Perry**, J.F. Markham, G.M. Kelly. 2011. *CAN-DOO: The Climate Action Network through Direct Observations and Outreach*. American Geophysical Union Fall Meeting, San Francisco, CA.
- L'Heureux, J.M., **L.B. Perry**, D.K. Miller, S.E. Yuter. 2010. *Comparison of the 2008-2009 cold-phase ENSO winter and the 2009-2010 warm-phase ENSO winter*. 67<sup>th</sup> Eastern Snow Conference, Hancock, MA.
- Kelly, G.M., **L.B. Perry**, B.F. Taubman. 2010. *Southeast flow precipitation in the southern Appalachian Mountains: topographic influences and aerosol-precipitation interactions*. Annual Meeting of the Association of American Geographers, Washington, D.C.
- Taubman, B.F., J.P. Sherman, P. Sheridan, **L.B. Perry**, H.S. Neufeld, R.E. Emanuel, D. Bowman, C. Long. 2009. *Aerosol direct radiative forcing in the southern Appalachian Mountains: initial results from the Appalachian Atmospheric Interdisciplinary Research (AppalAIR) Facility*. American Geophysical Union (AGU) Annual Meeting, San Francisco, CA.
- L'Heureux, J., **L.B. Perry**, D.K. Miller, S.E. Yuter. 2009. *Atmospheric influences on new snowfall characteristics associated with northwest flow snowfall in the southern Appalachian Mountains*. Southeastern Division of the Association of American Geographers Annual Meeting, Knoxville, TN.
- Miller, D.K., **L.B. Perry**, S.E. Yuter, L.G. Lee, S.J. Keighton. 2008. *Snowfall accumulation forecasting challenges for the southern Appalachians*. 33<sup>rd</sup> National Weather Association Annual Meeting, Louisville, KY.
- Perry, L.B.**, D.K. Miller, S.E. Yuter, L.G. Lee, S.J. Keighton. 2008. *Atmospheric influences on new snowfall density in the southern Appalachian Mountains, USA*. 65<sup>th</sup> Eastern Snow Conference, Fairlee (Lake Morey), VT.
- Arnold, J., **L.B. Perry**, M.W. Mayfield, J.W. Sugg. 2008. *A snow-related flood hydroclimatology of the southern Appalachian Mountains of North Carolina and Tennessee*. 65<sup>th</sup> Eastern Snow Conference, Fairlee (Lake Morey), VT.
- Yuter, S.E., **L.B. Perry**, D.A. Stark, M.T. Bryant. 2007. *Storm structures and precipitation characteristics of snow events in the southern Appalachian Mountains*. 12<sup>th</sup> Conference on Mesoscale Processes, American Meteorological Society, Waterville Valley, NH.
- Perry, L.B.**, C.E. Konrad. 2006. *Synoptic patterns associated with the record snowfall of 1960 in the Southern Appalachians*. 63<sup>rd</sup> Eastern Snow Conference, Newark, DE.
- Perry, L.B.**, O. Gade. 2001. *North Carolina's psychosocial dimensions of health*. Annual Meeting of the Association of American Geographers, New York City, NY.
- Mayfield, M.W., **L.B. Perry**, X. Li, A.G. Klein. 2001. *Glacier retreat in the northern Cordillera Real, Bolivia*. Annual Meeting of the Association of American Geographers, New York City, NY.
- Perry, L.B.** 1999. *Using GIS to estimate snowfall in the Southern Appalachians*. Annual Meeting of the Association of American Geographers, Honolulu, HI.

## Invited Presentations

- Perry, L.B.**, and co-authors. 2019. *Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth*. University of North Carolina at Greensboro, Greensboro, NC.
- Perry, L.B.**, and co-authors. 2019. *Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth*. Appalachian State University, Boone, NC.
- Perry, L.B.**, and co-authors. 2019. *Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth*. North Carolina State University, Raleigh, NC.
- Perry, L.B.**, and co-authors. 2019. *Elevando la comprensión meteorológica en el Everest: Instalación de las estaciones meteorológicas más altas del mundo*. Universidad Mayor de San Andrés (UMSA), La Paz, Bolivia.
- Perry, L.B.**, and co-authors. 2019. *Investigaciones meteorológicas en los Andes tropicales y los Himalayas*. Universidad Nacional de San Antonio de Abád de Cusco (UNSAAC), Cusco, Perú.
- Perry, L.B.**, and co-authors. 2017. *Precipitation-glacier-climate interactions in the Tropical High Andes of southern Peru and Bolivia*. Wake Forest University, Winston-Salem, NC.
- Perry, L.B.**, A. Seimon, M. Andrade, J.L. Endries, S.E. Yuter, F. Velarde, S. Arias, M. Bonshoms, E.J. Burton, R. Winkelmann, C.M. Cooper, G. Mamani, M. Rado, N. Montoya, N. Quispe. 2016. *Investigaciones de la precipitación Andina a multiescala*. Universidad Nacional de San Antonio de Abád de Cusco (UNSAAC), Cusco, Perú, and Universidad Mayor de San Andrés (UMSA), La Paz, Bolivia.
- Perry, L.B.**, A. Seimon, R.G. Poremba, D.T. Martin, G.M. Kelly, A. Tupayachi. 2015. *Precipitation delivery mechanisms in the tropical high Andes: new findings and paleoclimatic implications*. Climate Change Institute, University of Maine, Orono, ME.
- Perry, L.B.**, S.J. Keighton, L.G. Lee, D.K. Miller, S.E. Yueter, C.E. Konrad. 2015. *Synoptic influences on snowfall event characteristics in the southern Appalachian Mountains*. Department of Geography, University of North Carolina at Greensboro, Greensboro, NC.
- Perry, L.B.**, R.J. Poremba, A. Seimon, D.T. Martin, G.M. Kelly, C. Rodda, P.A. Mayewski, S. Haines, A. Tupayachi. 2014. *Investigaciones climatológicas en la Cordillera Vilcanota, Perú*. Cusco Glaciology Group, Peru.
- Perry, L.B.**, R.J. Poremba, A. Seimon, D.T. Martin, G.M. Kelly, C. Rodda, P.A. Mayewski, S. Haines, A. Tupayachi. 2014. *Investigaciones climatológicas en la Cordillera Vilcanota, Perú*. Universidad Nacional de San Antonio de Abád de Cusco (UNSAAC) and Servicio Nacional de Meteorología e Hidrología (SENAMHI), Perú.
- Perry, L.B.**, A. Seimon, G.M. Kelly. 2012. *Mecanismos relacionados con la producción de precipitación en los Andes tropicales: nuevos resultados e implicaciones paleoclimatológicas*. Universidad Mayor de San Andrés (UMSA), La Paz, Bolivia, and Universidad Nacional de San Antonio de Abád de Cusco (UNSAAC), Cusco, Peru.
- Perry, L.B.**, C.E. Konrad, S.E. Yuter, D.G. Hotz, L.G. Lee, T.W. Schmidlin. 2007. *Northwest flow snowfall in the Southern Appalachians*. Sigma Xi, Appalachian State University, Boone, NC.
- Perry, L.B.**, C.E. Konrad. 2005. *Northwest flow snowfall in the Southern Appalachians: topographic influences and synoptic climatology*. Upstate SC Chapter of the American Meteorological Society, Greer, SC.
- Perry, L.B.**, C.E. Konrad. 2005. *Synoptic climatology of northwest flow snowfall*. Collaborative Science, Technology, and Applied Research (CSTAR) Workshop, Raleigh, NC; 2005.
- C.E. Konrad, **L.B. Perry**. 2005. *The weather patterns associated with extremely heavy rainfall in western North Carolina*. National Environmental Modeling and Analysis Center (NEMAC) Workshop, Asheville, NC.

- Perry, L.B.** 2002. *Determinants of health: access to care and globalization*. Global Health Forum, Asheville, NC.
- Perry, L.B.** 2001. *Globalization and resistance in Andean Bolivia*. Humanities Lecture, University of North Carolina at Asheville, Asheville, NC.
- Perry, L.B.** 2000. *Health and inequality: what you should know*. Geography Awareness Week Lecture given at Appalachian State University, Boone, NC.
- Perry, L.B.** 1999. *Using GIS to assess geographic access to primary health care in Andean Bolivia*. Department of International Health, Johns Hopkins University, Baltimore, MD.
- Perry, L.B.** 1999. *Glacial lake outburst floods in Khumbu Himal, Nepal*. Department of Geography and Planning, Appalachian State University, Boone, NC.
- Perry, L.B.** 1998. *Sir Ernest Shackleton and the West Wind Drift*. Geography Awareness Week Lecture given at Appalachian State University, Boone, NC.
- Perry, L.B.** 1996. *Pacha Kuti and the current situation of the indigenous population in Andean Bolivia*. Geography Awareness Week Lecture given at Appalachian State University, Boone, NC.



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## TEACHING

### Appalachian State University

GHY 1010, *Introduction to Physical Geography*, Fall 1998, Spring 1999, Fall 2000, Fall 2001, Spring 2001, Summer 2001, Fall 2005, Fall 2006, Fall 2007, Spring 2008, Spring 2009, Fall 2009, Spring 2010, Fall 2018, Fall 2019

GHY 1011, *Global Climate Change*, Fall 2010, Spring 2011, Fall 2011 (Lab), Spring 2012, Spring 2013, Spring 2014, Spring 2015, Fall 2015, Spring 2016, Spring 2017, Fall 2017, Spring 2018, Spring 2020

GHY 1020, *World Regional Geography*, Fall 1997, Fall 1998, Fall 2000, Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004, Fall 2004, Spring 2005, Fall 2005, Spring 2006, Summer 2006, Fall 2007, Summer 2008, Fall 2008, Fall 2010, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Spring 2015, Spring 2017

GHY 1510, *Honors Introduction to Physical Geography*, Fall 2001, 2008, 2009

GHY 1520, *Honors World Regional Geography*, Spring 2004

GHY 2812, *Microcomputers in Geography and Planning*, Fall 1998

GHY 3015, *Geography of Asia*, Fall 2006, 2007

GHY 3100, *Weather and Climate*, Spring 2010

GHY 3140, *Mountain Geography*, Spring 2011, Fall 2013

GHY 3140/5530, *Mountain Geography of Ecuador*, Summer 2007, 2009

GHY 3140/5530, *Andean Mountain Geography*, Summer 2010, 2011, 2013, 2014, 2015, 2016

GHY 3310, *Environmental Remote Sensing*, Spring 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014

GHY 3510, *Honors Global Climate Change*, Spring 2009

GHY 3510, *Honors Mountain Geography*, Spring 2007

GHY 3510, *Honors Mountain Weather and Climate*, Spring 2008

GHY 3530/3531, *Geography of Andean Bolivia*, Summer 1999, 2000, 2001, 2003

GHY 3530/5530, *GIS in the Environmental Sciences*, Fall 2002, 2003

GHY 3530/3600, *Climate Change, Snow, & Ice*, Fall 2016, Spring 2018

GHY 3531/5531, *Globalization and Resistance in Andean Bolivia*, Summer 2000, 2001, 2003

GHY 3812, *Introduction to GIS*, Spring 1998

GHY 4530/5530, *Andean Mountain Geography*, Summer 2011, 2013, 2014, 2015, 2016

GHY 4531/5531, *Climate and Tropical Glaciers*, Summer 2007, 2009, 2010, 2011, 2013, 2014, 2015, 2016

GHY 4620/5530, *Synoptic and Regional Climatology*, Fall 2012, Fall 2015

GHY 5000, *Research Themes in Geography*, Fall 2009, 2011, 2015, 2016, 2017, 2018, 2019

GHY 5015, *Climate Change: Physical Science Basis*, Spring 2017, Summer 2018, Spring 2019

GHY 5100, *Seminar in Physical Geography: Global Climate Change*, Fall 2013

US 1150, *Global Climate Change* (First Year Seminar), Fall 2008

### University of Washington

GEOG 202, *Maps and GIS*, Winter 2001

### Appalachian Overseas Education Programs Directed

2018 *Peru: Climate Change, Glaciers, and Water Resources* (with P. Perry)

2017 *Peru: Climate Change, Glaciers, and Water Resources* (with C. Cooper)

2016 *Peru: Andean Societies and Environments* (with C. Cooper)

2015 *Peru: Andean Societies and Environments* (with P. Perry and A. Seimon)

2014 *Peru: Andean Societies and Environments* (with P. Perry and A. Seimon)

2013 *Peru: Andean Societies and Environments* (with A. Seimon)

2011 *Peru: Andean Societies and Environments* (with A. Cochran)

2010 *Peru: Andean Societies and Environments* (with M. Mayfield and A. Seimon)

2009 *Ecuador: Mountain Geography, Climate, and Tropical Glaciers* (with M. Mayfield)

2007	<i>Ecuador: Mountain Geography, Climate, and Tropical Glaciers</i> (with M. Mayfield)
2003	<i>Andean Bolivia: Mountain Geography, Globalization, and Resistance</i> (with K. Schroeder)
2001	<i>Andean Bolivia: Mountain Geography, Globalization, and Resistance</i> (with K. Schroeder)
2000	<i>Andean Bolivia: Mountain Geography, Globalization, and Resistance</i> (with F. Bahnson and P. Perry)
1999	<i>Andean Bolivia: Mountain Geography</i> (with M. Mayfield)

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#### CURRENT GRADUATE AND UNDERGRADUATE STUDENTS

<u>Student</u>	<u>Degree</u>	<u>Department(s)</u>	<u>Role</u>
Dulaney, Heather	M.A.	Geography	Thesis Advisor
O'Neil, Alex	M.A.	Geography	Thesis Advisor

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#### FORMER GRADUATE AND UNDERGRADUATE HONORS STUDENTS

<u>Student</u>	<u>Degree/Yr</u>	<u>Department(s)</u>	<u>Role</u>
Arnold, Justin	B.S. (2008)	Biology & Geography	Research Mentor
Bartlett, May	M.A. (2011)	Geography	Research Mentor
Burton, Eric	B.S. (2017)	Geography	Chair (Honor's Thesis)
Bush, Hannah	B.S. (2019)	Mathematics	Member (Honor's Thesis)
Cooper, Courtney	M.A. (2015)	Geography	Research Mentor
Eck, Montana	M.A. (2017)	Geography	Thesis Advisor
Endries, Jason	M.A. (2017)	Geography	Chair (Thesis)
Goddard, Derek	M.A. (2007)	Geography	Member (Internship)
Guy, Heather	M.A. (2018)	Geography	Thesis Advisor
Haden, Charles	M.A. (2011)	Geography	Member (Internship)
Ita Vargas, Tania	M.A. (2019)	Geography	Thesis Advisor
Jonaitis, Joseph	M.A. (2018)	Geography	Thesis Advisor
Ketron, Caroline	B.A. (2005)	Anthropology	Member (Honor's Thesis)
Kelly, Ginger	M.A. (2011)	Geography	Chair (Thesis)
L'Heureux, John	B.S. (2010)	Geography	Chair (Honors Thesis)
Martin, Daniel	M.A. (2013)	Geography	Chair (Thesis)
McCall, John	M.A. (2003)	Geography	Member (Thesis)
Montpellier, Evan	B.S. (2017)	Geography	Research Mentor
Montpellier, Evan	M.A. (2018)	Geography	Member (Thesis)
O'Neill, Alex	B.S. (2018)	Geography	Research Mentor
Poremba, Richard	M.A. (2015)	Geography	Research Mentor
Sufficool, Matthew	M.A. (2007)	Geography	Member (Internship)
Sugg, Johnathan	B.S. (2008)	Geography	Member (Honor's Thesis)
Sugg, Johnathan	M.A. (2013)	Geography	Chair (Thesis)
Thaggard, Jessica	M.A. (2016)	Geography	Research Mentor
Welker, Jonathan	B.S. (2012)	Geography	Chair (Honor's Thesis)

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#### MASTERS THESES DIRECTED

- Ita Vargas, T. 2019. *Synoptic Patterns Associated with Wet Season Onset in the Tropical High Andes of Southern Peru and Bolivia*. Committee: L.B. Perry (Chair), M. Sugg, I. Moreno.
- Jonaitis, J. 2018. *Spatiotemporal Patterns of ENSO-Precipitation Relationships in the Tropical High Andes of Southern Peru and Bolivia*. Committee: L.B. Perry (Chair), A. Seimon, P.T. Soulé, C.S. Thaxton.
- Guy, H. 2018. *Identification of a Regionally Coherent Subseasonal Signal of Stable Isotopes in Tropical Andean Precipitation*. Committee: L.B. Perry (Chair), A. Seimon, B. Konecky.
- Eck, M.A. 2017. *Winter Climate Variability in the Southern Appalachian Mountains, 1910-2017*. Committee: L.B. Perry (Chair), P.T. Soulé, J.W. Sugg, D.K. Miller.

- Endries, J.L. 2017. *Radar Observed Characteristics of Precipitation in the Tropical High Andes of Southern Peru and Bolivia*. Committee: L.B. Perry (Chair), S.E. Yuter, A. Seimon.
- Martin, D.T. 2013. *Snowfall Event Characteristics from a High-Elevation Site in the Southern Appalachian Mountains*. Committee: L.B. Perry (Chair), D.K. Miller, P.T. Soulé.
- Sugg, J.W. 2013. *Satellite Perspectives on the Spatial Extent of New Snowfall in the Southern Appalachian Mountains*. Committee: L.B. Perry (Chair), C.A. Badurek, D.K. Hall.
- Kelly, G.M. 2011. *Aerosol-Precipitation Interactions in the Southern Appalachian Mountains*. Committee: L.B. Perry (Chair), P.T. Soulé, B.F. Taubman.

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#### **UNDERGRADUATE HONORS THESES DIRECTED**

- Burton E.J. 2017. *Meteorological, Chemical, and Isotopic Characteristics of Precipitation Events on the Quelccaya Icecap, Peru: 2014-2016*. Committee: L.B. Perry (Chair), A. Seimon, M. Potocki.
- Welker, J.A. 2013. *Backward Air Trajectories Associated with Snowfall Events in the Southern Appalachian Mountains: 2006-2011*. Committee: L.B. Perry (Chair), D.K. Miller.
- L'Heureux, J. 2010. *Comparison of the 2008-2009 Cold Phase ENSO Winter and the 2009-2010 Warm Phase ENSO Winter*. Committee: L.B. Perry (Chair), T. Rokoski.

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## PROFESSIONAL SERVICE

### Eastern Snow Conference

2015 – President  
2014 – Program Chair and Vice President  
2013 – Steering Committee  
2012 – Executive Committee  
2009-2011 – Research Committee (Chair)  
2007-2008 – Research Committee

### Southeastern Division of the Association of American Geographers

2002, 2003, 2005, 2009 – Moderator, Regional Geography Bowl

### Association of American Geographers

2001 – Moderator, World Geography Bowl  
1999-2000 – Moderator, Mountain Geography Listserve

### North Carolina Geographical Society

2000-2002 – Moderator, State Geography Bowl

### Manuscript Reviews

*Applied Geography*  
*Environmental Research Letters*  
*Hydrological Processes*  
*International Journal of Climatology*  
*Journal of Applied Meteorology and Climatology*  
*Journal of Geophysical Research – Atmospheres*  
*Physical Geography*  
*Professional Geographer*  
*Social Science & Medicine*  
*Southeastern Geographer*

### Proposal Reviews

National Aeronautics and Space Administration  
National Science Foundation

### National Weather Service

2005 to Present – Member, Northwest Flow Discussion Group

### Advisory Boards

2013 to 2017 – Data on climate and Extrême weather for the Central AnDEs (DECADE)

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## OUTREACH ACTIVITIES AND REGIONAL/COMMUNITY SERVICE

Co-Director, *Appalachian State University Mighty Mountaineers Youth Basketball Program*, 2010 to 2016  
Coach, *Tailwind Track Club*, 2009 to 2015  
Cooperative Observer, *National Weather Service*, 2008 to Present  
Climatologist and Meteorological Station Technician, *Beech Mountain Resort*, 2007 to Present  
Observer, *Community Collaborative Rain, Hail, and Snow (CoCoRaHS) Network*, 2007 to Present  
Meteorological Station Manager, *Grandfather Mountain Stewardship Foundation*, 2006 to 2018  
Firefighter and First Responder, *Fall Creek Volunteer Fire Department*, 2005 to Present  
Skywarn Spotter, *National Weather Service*, 2004 to Present  
Coordinator, *Bethel Elementary School Science Club*, 2010 to 2011  
Coordinator, *NASA Climate Action Network through Direct Observations and Outreach (CAN-DOO) at Grandfather Mountain*, 2010 to 2013  
*Project for Appalachian Community and Environment* Board of Directors, 2001 to 2003  
*Andean Rural Health Care* Board of Directors, 1996 to 2001

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## METEOROLOGICAL STATIONS INSTALLED/MAINTAINED

### North Carolina

*AppalAIR Broyhill Site* (3,550 ft), Boone, NC, 2009 to Present  
*Beech Mountain* (5,504 ft), Beech Mountain, NC, 2007 to Present  
*Bethel Elementary School* (2,700 ft), Bethel, NC, 2010 to 2018  
*Grandfather Mountain* (5,280 ft), Linville, NC, 2006 to 2018  
*Hardin Park Elementary School* (3,200 ft), Boone, NC, 2010 to 2012  
*Poga Mountain* (3,350 and 3,650 ft), Flat Springs, NC, 2006 to Present  
*Roan Mountain* (6,150 ft), Bakersville, NC, 2011 to Present

### International

*Balcony, Mt. Everest* (27,657 ft), Khumbu Himal, Nepal, 2019 to Present  
*South Col, Mt. Everest* (26,066 ft), Khumbu Himal, Nepal, 2019 to Present  
*Camp II, Mt. Everest* (21,207 ft), Khumbu Himal, Nepal, 2019 to Present  
*Pumori Bench, Mt. Everest* (17,437 ft), Khumbu Himal, Nepal, 2019 to Present  
*Phortse* (12,500 ft), Khumbu Himal, Nepal, 2019 to Present  
*Laguna Sibinacocha* (16,075 ft), Cordillera Vilcanota, Peru, 2017 to Present  
*Chacaltaya Observatory* (17,200 ft), Cordillera Real, Bolivia, 2014 to Present  
*Queelccaya Icecap* (18,800 ft), Cordillera Vilcanota, Peru, 2014 to Present  
*Murmurani Alto* (16,700 ft), Cordillera Vilcanota, Peru, 2012 to 2017  
*Osjollo Anante Icecap* (18,200 ft), Cordillera Vilcanota, Peru, 2012 to 2015

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## ALPINE MOUNTAINEERING EXPERIENCE

### Summary

Dr. Perry has over 20 years of alpine mountaineering experience that includes an installation of a meteorological station at 8,430 m at the Balcony on Mt. Everest in Nepal, ascents of Illimani (6,435 m) and Ancohumana (6,427 m), a first ascent of the southwest face of Sorata Este (5,460 m), and extensive field work on glacierized surfaces above 5,000 m. He has formal training in glacier travel, crevasse rescue, ice climbing, and avalanche forecasting. Dr. Perry has slept at elevations above 5,000 m on 102 nights (above 6,000 m on 10 nights) and has climbed to his team's AWS at 5,650 m on the summit plateau of the Quelccaya Icecap 21 times since 2014.

### Climbing and Research Expeditions on Glacierized Peaks

*Huayna Potosí (6,088 m), Cordillera Real, Bolivia; August 2019.* Ascended to summit and then dug snow pit on lower angle glacier surface at 5,900 m to measure SWE, snow density, and collect samples for stable isotope analysis.

*Mt. Everest (8,430 m), Khumbu Himal, Nepal, May 2019.* Climbed to the Balcony as part of a team that installed the highest weather station in world as part of National Geographic Everest research expedition.

*Lobuche East (5,960 m), Khumbu Himal, Nepal, May 2019.* Acclimatization climb as part of National Geographic Everest research expedition.

*Cho La Glacier (5,300 m), Khumbu Himal, Nepal: January 2019.* Tested ice core drilling and trained with Sherpa team in preparation for April/May Everest expedition.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; September 2018.* Serviced AWS and dug snow pits to measure SWE, snow density, and collect samples for stable isotope analysis. Assisted with ground penetrating radar survey and ice coring activities.

*Ancohumana (6,000 m), Cordillera Real, Bolivia; July 2018.* Dug snow pit on icefield below summit pyramid to measure SWE, snow density, collect samples for stable isotope and trace element analyses.

*Chaupi Orcko (5,500 m), Cordillera Apolobamba, Bolivia; July 2018.* Dug snow to measure SWE, snow density, collect samples for stable isotope and trace element analyses. Avalanche danger prevented further ascent.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; July 2018.* Led students from Appalachian State University to visit AWS and dig snow pits as part of field study course.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; March 2018.* Serviced AWS and dug snow pits to measure SWE, snow density, and collect samples for stable isotope and trace element analysis.

*Huayna Potosí (6,000 m), Cordillera Real, Bolivia; July 2017.* Ascended to summit ridge and then dug snow pit on lower angle glacier surface at 5,900 m to measure SWE, snow density, and collect samples for stable isotope analysis.

*Ancohumana (6,000 m), Cordillera Real, Bolivia; July 2017.* Dug snow pit on icefield below summit pyramid to measure SWE, snow density, collect samples for stable isotope and trace element analyses.

*Illimani (6,435 m) via normal route, Cordillera Real, Bolivia; July 2017.* Dug snow pit at 6,300 m after summiting to measure SWE, snow density, and collect samples for stable isotope and trace element analyses.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; July 2017.* Serviced AWS and dug snow pits to measure SWE, snow density, and collect samples for stable isotope and trace element analysis.

*Ancohumana (6,427 m) via the West Face (70°), Cordillera Real, Bolivia; July 2016.* Dug snow pit to measure SWE, snow density, collect samples for stable isotope and trace element analyses. Normal route was not passable due to crevasse on northwest ridge; West Face presented challenges with considerable water ice and a large Bergschrund.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; July 2016.* Serviced AWS and dug snow pits to measure SWE, snow density, and collect samples for stable isotope analysis.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; July 2015.* Serviced AWS and dug snow pits to measure SWE, snow density, and collect samples for stable isotope analysis.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; November 2014.* Released radiosondes as part of field campaign from the base and serviced AWS.

*Quisoquipina (5,150 m), Cordillera Vilcanota, Peru. November 2014.* Serviced AWS maintained by SENAMHI Peru in ablation zone of glacier.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; October 2014.* Serviced AWS.

*Quelccaya Icecap (5,650 m), Cordillera Vilcanota, Peru; August 2014.* Installed AWS with comprehensive precipitation monitoring station and dug snow pits to measure SWE, snow density, and collect samples for stable isotope analysis.

*Osjollo Anante Icecap (5,540 m), Cordillera Vilcanota, Peru; July 2014.* Took down AWS due to developing major crevasse hazard and evidence of destabilization of ice cliffs.

*Osjollo Anante Icecap (5,540 m), Cordillera Vilcanota, Peru; July 2013.* Serviced AWS installed in April 2012.

*Osjollo Anante Icecap (5,540 m), Cordillera Vilcanota, Peru; October 2012.* Serviced AWS installed in April 2012.

*Chumpe (5,750 m), Cordillera Vilcanota, Peru; April 2012.* Dug snowpit to measure SWE, snow density, and collect samples for stable isotope analysis. Avalanche danger and weather prevented climbing higher.

*Osjollo Anante Icecap (5,540 m), Cordillera Vilcanota, Peru; April 2012.* Installed AWS approximately 100 m from edge of ice cliffs on the eastern margin.

*Chumpe (5,700 m), Cordillera Vilcanota, Peru; August 2010.* Dug snowpit to measure SWE, snow density, and collect samples for stable isotope analysis. Avalanche danger prevented climbing higher.

*Osjollo Anante Icecap (5,670 m), Cordillera Vilcanota, Peru; August 2009.* Dug snowpit on summit to measure SWE, snow density, and collect samples for stable isotope analysis.

*Cotopaxi Volcano (5,600 m), Ecuador; May 2009.* Dug snowpit to measure SWE and density of annual layer.

*Villarica Volcano (2,860 m) via the normal route, Chile; March 2003.*

*Ancohuma (6,000 m), Cordillera Real, Bolivia; July 2000.* Ascended to base of summit pyramid but turned back due to unstable snow conditions.

*Mt. Rainier (4,392 m) via the Disappointment Cleaver Route, Cascade Mountains, WA; September 1999.*

*Soral Este (5,460 m), Cordillera Apolobamba, Bolivia; July 1999.* Completed first ascent of the southwest face (60-65°).

*Ancohuma (5,700 m), Cordillera Real, Bolivia; July 1999.* Ascended to 5,700 m via the normal route but turned back due to poor route conditions.

*Mt. Baker (3,286 m) via the North Ridge (70°), North Cascades, Washington; June 1999.*

*Pequeño Alpomayo (5,200 m) via the normal route, Cordillera Real, Bolivia; June 1993.* Ascended to base of the summit pyramid.

### **Mountaineering and Avalanche Courses**

*Intermediate Ice Climbing Course, American Alpine Institute, Mt. Baker, WA; June 1998.* Course covered ice axe use and self-arrest, snow and ice anchors, glacier travel, crevasse rescue, ice climbing, and culminated with a successful climb of the North Ridge (70°) of Mt. Baker.

*Advanced Avalanche Forecasting, Northwest Avalanche Center, Crystal Mountain, WA; February 2000.* Course covered snow science, mountain meteorology, and terrain with specific application to the Cascade Mountains. Included full day in the field digging, analyzing, and interpreting snow pits.

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## DEPARTMENT, COLLEGE, AND UNIVERSITY SERVICE

### Department of Geography & Planning

Chairperson Search Committee, 2019-20  
Periodic Comprehensive Review Committee, 2017-2018  
Department Personnel Committee, 2016-2019  
Cartography Search Committee, 2016-2017  
Assessment Committee, 2016-2019  
Human Geography Search Committee, 2014-2015  
Physical Geography Search Committee, 2013-2014  
GIScience Search Committee, 2013-2014  
Curriculum Committee, 2011-2017  
Honors and Awards Committee, 2011-2017  
Departmental Personnel Committee, 2009-10, 2015-2016  
Graduate Committee, 2008-2010, 2012-2019  
Social Committee, 2007-2009  
Physical Geography Search Committee, 2007-2008  
Comprehensive Exam Committee, 2007-2010, 2016  
Speaker Committee, 2006-2009, 2012-2018

### College of Arts & Sciences

Outstanding Alumni Committee, 2011 to Present  
Appalachian Atmospheric Interdisciplinary Research (AppalAIR), 2008 to Present  
Grade Appeal Committee, 2008

### Appalachian State University

Appalachian State History Committee, 2018 to Present  
Vice Provost for Research Search Committee (Co-Chair), 2017-2018  
Global Engagement Council, 2017 to Present  
Academic Leadership Development Program, 2016-2017  
Campus Master Planning Committee, 2015-2016  
University Research Council IT Research Platform Committee, 2014-2016  
Faculty Representative to the University Corporation for Atmospheric Research (UCAR),  
2014-2017  
RIEEE Interim Director Search Committee, 2015  
Overseas Education Committee, 2012-2015  
Presentation to the Research Triangle Park (RTP) Pathways to Opportunity Tour, 2012  
Presentation to the North Carolina Board of Visitors and Congressional Staff, 2011  
Presentations to the Board of Trustees, 2009, 2014  
Winter Weather Forecasting Expertise, 2009-2018



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## PROFESSIONAL AFFILIATIONS

*American Alpine Club*  
*American Geophysical Union*  
*American Meteorological Society*  
*American Association of Geographers*  
*Southeastern Division of the American Association of Geographers*  
*Eastern Snow Conference*

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## HONORS AND AWARDS

- 2019 Appalachian State University *Provost's Award for Excellence in Research, Scholarship, and Creative Activity*
- 2016 Appalachian State University *Wachovia Award for Environmental Research* in the Southern Appalachian Mountains
- 2011 Appalachian State University *Transforming North Carolina Research Award* for research that has a significant impact on the present and/or future of North Carolina.
- 2006 University of North Carolina at Chapel Hill *Impact Award* for exceptional doctoral research with direct benefits to North Carolina
- 2000 Council of Southern Graduate Schools *Outstanding Thesis Award*
- 1998 Appalachian State University *Outstanding Thesis Award*
- 1997 *Julian Yoder Scholarship* (awarded to outstanding graduate student), Department of Geography and Planning, Appalachian State University

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## STUDENT HONORS AND AWARDS

- 2018 Research Mentor for recipient (Heather Guy) of the *Graduate Student Poster Award* at Appalachian State University's Celebration of Student Research and Creative Endeavors
- 2017 Thesis Advisor for recipient (Montana Eck) of the *Master's Student Honors Paper Award* at the Annual Meeting of the Southeastern Division of the American Association of Geographers
- 2017 Thesis Advisor for recipient (Montana Eck) of the *Three-Minute Thesis (3MT)* Competition at Appalachian State University
- 2017 Research Mentor for recipient (Montana Eck) of the *Graduate Student Poster Award* at Appalachian State University's Celebration of Student Research and Creative Endeavors
- 2017 Research Mentor for recipient (Heather Guy) of the *Graduate Student Poster Award* at Appalachian State University's Celebration of Student Research and Creative Endeavors
- 2017 Research Mentor for recipient (Jason Endries) of the *Student Poster Award* at the Robert Houze Symposium at the Annual Meeting of the American Meteorological Society
- 2015 Research Mentor for recipient (Eric Burton) of the *Undergraduate Student Poster Award* at Appalachian State University's Celebration of Student Research and Creative Endeavors
- 2014 Thesis Advisor for recipient (Johnathan W. Sugg) of Appalachian State University *Outstanding Thesis Award*
- 2012 Advisor for recipient (Johnathan W. Sugg) of *David Hewitt Miller Student Poster Award* at the 70<sup>th</sup> Eastern Snow Conference
- 2012 Thesis Advisor for recipient (Ginger M. Kelly) of Appalachian State University *Outstanding Thesis Award*

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## INTERNATIONAL TEACHING, RESEARCH, SERVICE, AND EXPLORATION

2019, August – Cusco, Peru; La Paz, Bolivia; Cordillera Real, Bolivia  
2019, April to May – Khumbu Himal, Nepal  
2019, January – Khumbu Himal, Nepal  
2018, September – Cordillera Vilcanota, Peru  
2018, June to July – Cordillera Vilcanota, Peru; Cordillera Apolobamba, Cordillera Real, Bolivia  
2018, March – Quelccaya Icecap, Peru  
2017, July – Cordillera Vilcanota, Cusco, Peru; Cordillera Real, La Paz, Bolivia  
2016, July – Cordillera Vilcanota, Cusco, Peru; Cordillera Real, La Paz, Bolivia  
2015, July to August – Cordillera Vilcanota, Cusco, Peru; Cordillera Real, La Paz, Bolivia  
2015, May – Cusco, Peru  
2014, July to November – Cordillera Vilcanota, Cusco, Peru; Cordillera Real, La Paz, Bolivia  
2013, July – Cordillera Vilcanota, Peru  
2012, October – La Paz, Bolivia and Cusco, Peru  
2012, April – Cordillera Vilcanota, Peru  
2011, July to August – Cordillera Vilcanota, Peru  
2010, October – International Climate Symposium, Chile  
2010, July to August – Cordillera Vilcanota, Peru  
2009, July to August – Cordillera Vilcanota, Peru  
2009, May – Central Highlands, Ecuador  
2007, May – Newfoundland, Canada  
2007, May – Central Highlands, Ecuador  
2006, May – Cordillera Real, Bolivia  
2003, July – Cordillera Real, Bolivia  
2003, June – Deschappelles, Haiti  
2003, March – Lakes District, Chile  
2001, July – Cordillera Real, Bolivia  
2000, July – Cordillera Real and Cordillera de Apolobamba, Bolivia  
1999, July – Cordillera Real, Bolivia  
1998, December – Khumbu Himal, Nepal  
1998, March – Northern Altiplano, Bolivia  
1997, December – Costa Rica  
1997, June to July – Northern Altiplano and Cordillera de Apolobamba, Bolivia  
1995, July to December – La Paz, Bolivia  
1995, June to July – Dhaka, Bangladesh  
1994, June – Patagonia, Chile  
1994, May to December – Northern Altiplano, Cochabamba, and La Paz, Bolivia  
1994, March – La Mosquitia, Honduras  
1993, May – Northern Altiplano, Bolivia