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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**

**Senior Scholar**, Appalachian State University, Research Institute for Environment, Energy, and Economics (RIEEE) – 2022 to present. Convening high visibility events at App State and elsewhere, creating broad opportunities for research leadership in climate science through peer and student mentorship, fostering and growing networks related to climate change in mountain regions, and communicating sustainability impact across multiple avenues for dissemination.

**Professor**, 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.

**Expedition Leader**, National Geographic and Rolex Perpetual Planet Return to Everest Expedition – 2022 and 2023. Led a 2023 expedition of 5 climbing Sherpa to maintain the weather station network on Mount Everest. Led a 2022 expedition of 14 climbing Sherpa, three scientists, and 10 support staff to maintain the weather stations installed in 2019 and install a new station just below the summit at 8,810 m.

**Expedition Leader**, National Geographic and Rolex Perpetual Planet Expedition to Nevado Ausangate, Peru – 2022. Led and expedition of eight scientists, six climbing guides, seven media team members, and 10 support staff to install a weather station at 6,349 m just below the summit, collect samples from a snow pit for water isotope and microplastic analysis, and collect air quality samples.

**Meteorology Team Co-Leader**, National Geographic and Rolex Perpetual Planet Expedition to Mt. Everest – 2019. Led the installation of five meteorological stations on Mt. Everest at elevations between 3,810 and 8,430 m, including the two highest in the world.

**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**, Appalachian State University, Department of Geography and Planning – 2014 to 2018. 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. Director of Peru Summer Study Abroad program, 2014 to 2018.

**Assistant Professor**, 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**, 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**, 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**, 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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## SYNERGISTIC ACTIVITIES

1. PI on a National Geographic and Rolex Perpetual Planet grant (2021-2024) to operate and maintain weather stations installed on Mount Everest (Nepal) in 2019. Led 2023 and 2022 expeditions to conduct essential maintenance on all stations; 2022 included the installation of a new station just below the summit at 8,810 m. Co-led 2019 expedition that installed a network of five weather stations at elevations ranging from 3,810 to 8,430 m. Continues to lead efforts to mentor young, local Nepali scientists as part of the Everest weather station network.
2. Andes Field Projects: PI and Leader of 2022 National Geographic and Rolex Perpetual Planet Expedition to Nevado Ausangate (Peru) to install a new weather station at 6,349 m, collect snow samples for analysis of microplastics and water isotopes, and sample black carbon from a portable micro-aethelometer. Women and ethnic minorities held key leadership roles and were instrumental to the expedition success. Co-leader of 2021 National Geographic and Rolex Expedition to Tupungato Volcano (Chile) that installed a weather station at 6,505 m. Co-PI on a NSF P2C2 (Paleo Perspectives on Climate Change) grant (2016-2019) to investigate tropical Andean snow and ice chemistry to improve paleoclimatic reconstruction and improve climate prediction; field activities included sampling snow and ice from the Quelccaya (5,670 m) and Osjollo Anante (5,640) Ice Caps in Peru and Nevado Ancohuma (6,427 m) and Illimani (6,438 m) in Bolivia. PI on a NSF CAREER grant (2014-2019) that investigated precipitation in the tropical Andes of Bolivia and Peru using a citizen science precipitation network, vertically-pointing MicroRainRadar deployments, and installation of comprehensive precipitation monitoring stations on the Quelccaya Ice Cap (5,650 m) and Nevado Chacaltaya (5,160 m).
3. Courses taught regularly: Global Climate Change (undergraduate), Global Environmental Systems (undergraduate), Weather and Climate (undergraduate), Climate Change: Physical Science Basis (graduate), Research Themes in Geography (graduate); Andean Mountain Environments & People (undergraduate) and Snow & Ice in the Tropical Andes (undergraduate) are offered as part of the Climate Change in the Andes summer study abroad program to Peru (nine programs led since 2010).

4. Graduate student mentorship since 2008: 22 students (including 10 women and 3 underrepresented minorities), including direct supervision of 9 master's theses
5. Vice-President and Program Chair for the 2014 Eastern Snow Conference; President in 2015.
6. Founding member of the Appalachian Atmospheric Interdisciplinary Research (AppalAIR) group, an inter-institutional collaborative effort among Appalachian State University, North Carolina State University, University of North Carolina in Asheville, and NOAA, with members from Atmospheric Sciences, Biology, Chemistry, Computer Science, Geography, and Physics.

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## PUBLICATIONS

### Peer-Reviewed Journals and Reports

47. Van Wyk de Vries, M., T. Matthews, **L.B. Perry**, N. Thapa, H. Guy, R. Wilby. 2024. At-scale Model Output Statistics in mountain environments. *Geoscientific Model Development*, Under Review.
46. Sherpa, T.C., T. Matthews, **L.B. Perry**, A. Thapa, P.K. Singh, A. Khadka, I. Koch, M. Pelto, P. Panday, D. Aryal, D. Shrestha, S. Kang, P.A. Mayewski. 2023. Insights from the first observations of winter weather near Mount Everest's summit. *Weather*, <http://doi.org/10.1002/wea.4374>
45. Dragone, N.B., **L.B. Perry**, A. Solon, A. Seimon, T.A. Seimon, S.K. Schmidt. 2023. Genetic analysis of the frozen microbiome at 7,900 m a.s.l., on the South Col of Sagarmatha (Mount Everest). *Arctic, Antarctic, and Alpine Research*, <https://doi.org/10.1080/15230430.2023.2164999>
44. Matthews, T., **L.B. Perry**, A. Khadka, T.G. Sherpa, D. Shrestha, D. Aryal, S. Tuladhar, N. Thapa, N. Pradhananga, P. Athans, D.Y. Sherpa, H. Guy, A. Seimon, A. Elmore, K. Li, N. Alexiev. 2022. Weather observations reach the summit of Mount Everest. *Bulletin of the American Meteorological Society*, 103: E2827-E2835, <https://doi.org/10.1175/BAMS-D-22-0120.1>
43. Clifford, H.M., M. Potocki, C. Rodda, D. Dixon, S. Birkel, M. Handley, E. Korothikh, F. Schwanck, F.A. Tavares, R.T. Bernardo, F.G.L. Lindau, O.V. Gomez, H. Jara-Infantes, V. B. Urviola, **L.B. Perry**, J. Maurer, A. Seimon, M. Schwikowski, G. Casassa, S. Hou, A.V. Kurbatov, K.R. Miner, J.C. Simões, P.A. Mayewski. 2022. Comparison of shallow ice core records from Quelccaya Ice Cap (Peru) and Nevado Illimani (Bolivia) and potential for future ultra-high-resolution investigation. *Journal of Glaciology*, 1-15. <https://doi.org/10.1017/jog.2022.91>
42. Pelto, M.S., M. Dryak, J. Pelto, T. Matthews, **L.B. Perry**. 2022. Contribution of glacier runoff during heat waves in the Nooksack River. *Water*, <https://doi.org/10.3390/w14071145>
41. Bessin, Z., J-P. Dedieu, Y. Arnaud, P. Wagnon, F. Brun, M. Esteves, **L.B. Perry**, T. Matthews. 2022. Processing of VENUS images in high mountain: A case study from cryospheric and hydro-climatic applications in the Everest region (Nepal). *Remote Sensing*, 14, 1098. <https://doi.org/10.3390/rs14051098>
40. Birkel, S., P.A. Mayewski, **L.B. Perry**, A. Seimon, M. Andrade-Flores. 2022. Reanalysis inter-model comparison of temperature and precipitation for the Andean Altiplano and adjacent Cordilleras. *Journal of Geophysical Research: Atmospheres*, <http://doi.org/10.1029/2021EA001934>
39. Grey, L., A. Johnson, T. Matthews, **L.B. Perry**, A. Elmore, A. Khadka, D. Shrestha, S. Tuladhar, S. Baidya, D. Aryal, A. Gajurel. 2022. Mount Everest's photogenic weather during the post-monsoon. *Weather*, <http://doi.org/10.1002/wea.4184>
38. Moreno, C., M. Sugg, J. Sugg, **L.B. Perry**. 2022. Examining spatiotemporal trends of drought in the conterminous United States using self-organizing maps. *Physical Geography* <https://doi.org/10.1080/02723646.2022.2035891>.

37. Potocki, M., P.A. Mayewski, T. Matthews, **L.B. Perry**, M. Schwikowski, A. Tait, E. Korotkikh, H. Clifford, S. Kang, T. Sherpa, P. Singh, I. Koch, S. Birkel. 2022. Mt. Everest's highest glacier is a sentinel for accelerating ice loss. *npj Climate and Atmospheric Science* 5, 7. <https://doi.org/10.1038/s41612-022-00230-0>
36. Matthews, T., **L.B. Perry**, D. Aryal, A.C. Elmore, A. Khadka, M. Pelto, D. Shrestha, R. Wilby. 2022. Weather on K2 during historic first winter ascent. *Weather* 77: 49-52. <https://doi.org/10.1002/wea.4094>
35. Fyffe, C.L., E. Potter, S. Fugger, A. Orr, S. Fatichi, K. Medina, R. Å Hellström, M. Bernat, C. Aubry-Wake, W. Gurgiser, **L.B. Perry**, W. Suarez, D.J. Quincey, E. Loarte, F. Pellicciotti. 2021. The energy and mass balance of Peruvian glaciers. *Journal of Geophysical Research: Atmospheres*, 126, e2021JD034911. <https://doi.org/10.1029/2021JD034911>
34. Pelto, M., P. Panday, T. Matthews, J. Maurer, **L.B. Perry**. 2021. Observations of winter ablation on glaciers in the Mount Everest Region in 2020-2021. *Remote Sensing* 2021: 13(14) 2692. <https://doi.org/10.3390/rs13142692>
33. Clifford, H. M., M. Potocki, I. Koch, T. Sherpa, M. Handley, E. Korotkikh, D. Introne, S. Kaspari, K. Miner, T. Matthews, **L.B. Perry**, H. Guy, P. Wagon, A. Gajurel, P.K. Singh, S.E. Elvin, A.C. Elmore, A. Tait, P.A. Mayewski. 2020. Natural and human contributions to pre-monsoon snow and stream chemistry, Khumbu Nepal. *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2021.148006>.
32. Jonaitis, J., **L.B. Perry**, A. Seimon, P. Soulé, C. Thaxton, M. Andrade-Flores, T. Ita-Vargas. 2021. Spatiotemporal patterns of ENSO-precipitation relationships in the tropical Andes of southern Peru and Bolivia. *International Journal of Climatology*, 41: 4061-4076. <https://doi.org/10.1002/joc.7058>
31. Khadka, A., T. Matthews, **L.B. Perry**, I. Koch, P. Wagon, D. Shrestha, D. Aryal, A. Tait, T.G. Sherpa, S. Tuladhar, S.K. Baidya, S.E. Elvin, A.C. Elmore, A. Gajurel, P.A. Mayewski. 2021. Weather on Mount Everest during the 2019 summer monsoon. *Weather* <https://doi.org/10.1002/wea.3931>
30. **Perry, L.B.**, S.E. Yuter, T. Matthews, P. Wagon, 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. 2021. Direct observations of a Mount Everest Snowstorm from the World's Highest Surface-Based Radar Observations. *Weather* 76: 57-59. <https://doi.org/10.1002/wea.3854>
29. Matthews, T., **L.B. Perry**, T.P. Lane, A.C. Elmore, A. Khadka, D. Aryal, D. Shrestha, S. Tuladhar, S.K. Baidya, A. Gajurel, M. Potocki, P.A. Mayewski. 2020. Into Thicker Air? Oxygen availability at humans' physiological frontier on Mount Everest. *iScience* 23(12): <https://doi.org/10.1016/j.isci.2020.101718>
28. Mayewski, P.A. **L.B. Perry**, T. Matthews, S. Birkel. 2020. Climate change in the Hindu Kush Himalayas: Basis and Gaps. *One Earth* 3(5): 551-55. <https://doi.org/10.1016/j.oneear.2020.10.007>
27. Mayewski, P.A., A. Gajurel, S.E. Elvin, P. Athans, T. Dinley, P. Sherpa, A.C. Elmore, J. Ghimire, **L.B. Perry**, T. Matthews, S. Birkel, S. Guilford, M. Hubbard, A. Putnam, T. Seimon, A. Seimon, S. Ghimere, A. Tait. 2020. Pushing Climate Change Science to the Roof of the World. *One Earth* 3(5): 556-560. <https://doi.org/10.1016/j.oneear.2020.10.021>
26. Miner, K.R., P.A. Mayewski, S.K. Baidya, K. Broad, H. Clifford, A. Elmore, A.P. Gajurel, B. Giri, S. Guilford, M. Hubbard, C. Jaskolski, H. Koldewey, W. Li, T. Matthews, I. Napper, **L.B. Perry**, M. Potocki, J.C. Priscu, A. Tait, R. Thompson, S. Tuladhar. 2020. An overview of physical risks in the Mt. Everest region. *One Earth* 3(5): 547-550. <https://doi.org/10.1016/j.oneear.2020.10.008>
25. **Perry, L.B.**, T. Matthews, H. Guy, I. Koch, A. Khadka, A.C. Elmore, D. Shrestha, S. Tuladhar, S.K. Baidya, S. Maharjan, P. Wagon, D. Aryal, A. Seimon, A. Gajurel, P.A. Mayewski. 2020. Precipitation characteristics and moisture source regions on Mt. Everest in the Khumbu, Nepal. *One Earth* 3(5): 594-607. <https://doi.org/10.1016/j.oneear.2020.10.011>

24. 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*, 101: E1870-E1890. doi: <https://doi.org/10.1175/BAMS-D-19-0198.1>.
23. Kunkel, K.E., D.R. Easterling, A. Ballinger, S. Bililign, S.M. Champion, D.R. Corbett, K.D. Dello, J. Dissen, G.M. Lackmann, R.A. Luettich, Jr., **L.B. Perry**, W.A. Robinson, L.E. Stevens, B.C. Stewart, and A.J. Terando. 2020. *North Carolina Climate Science Report*. North Carolina Institute for Climate Studies, 233 pp. <https://ncics.org/nccsr>
22. 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>
21. 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>
20. 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
19. 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
18. 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
17. 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.
16. **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>
15. 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>
14. 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
13. 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>
12. 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

11. 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.
10. **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.
9. 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.
8. 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.
7. **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.
6. 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.
5. 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.
4. **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.
3. **Perry, L.B.**, C. E. Konrad. 2006. Relationships between NW flow snowfall and topography in the Southern Appalachians, USA. *Climate Research* 32: 35-47.
2. 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.
1. **Perry, L.B.**, W. Gesler. 2000. Physical access to primary health care in Andean Bolivia. *Social Science & Medicine* 50: 1177-1188.

#### Conference Proceedings

17. 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>
16. 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*.
15. 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.
14. 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.

13. 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.
12. **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.
11. 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.
10. 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.
9. 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.
8. 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.
7. 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.
6. 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*.
5. **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.
4. **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.
3. **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.
2. **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.
1. **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 AND CONTRACTS

### Extramural

- Perry, L.B.**, M. Rado, R. Pillco. 2022. *Precipitation Observing Network in the Upper Madre de Dios, Peru*. National Geographic Society: 1 October 2022 to 30 June 2024. **\$15,950.**
- Perry, L.B.**, T. Matthews. 2021. *Ongoing Maintenance of the Automatic Weather Stations in the Khumbu Region, Nepal*. National Geographic Society: 15 April 2021 to 30 June 2024. **\$670,000.**
- Perry, L.B.**, T. Matthews, H. Guy, M. Rado, L. Ticona. 2021. *Glacier-Climate Interactions on Nevado Ausangate, Peru*. National Geographic Society: 15 February 2021 to 31 December 2022. **\$42,330.**
- Perry, L.B.** 2020. *Perpetual Planet Expedition to Tupungato Volcano, Chile*. National Geographic Society: 15 December 2020 to 3 September 2021. **\$31,734.**
- Perry, L.B.** 2018. *Perpetual Planet Expedition to Mount Everest, Nepal*. National Geographic Society: 1 November 2018 to 30 June 2019. **\$33,752.**
- Seimon, A, **L.B. Perry**. 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 2020. **\$348,814**
- 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 2020. **\$494,296.**
- 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.**
- 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.**
- 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.**
- 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.**



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**.

**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**.

**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**.

#### Intramural

**Perry, L.B.** 2023. *Analysis of Weather Station Data from Nevado Ausangate, Peru*. Office of Student Research Undergraduate Research Assistantship, 1 February to 15 May 2023, **\$1,200**.

**Perry, L.B.** 2022. *Climate-Glacier Interactions on Nevado Ausangate, Cordillera Vilcanota, Peru*. Office of Student Research Undergraduate Research Assistantship, 1 September to 15 November 2022, **\$1,200**.

**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

Potter, E., S. Li, J. Jones, I. Irarrázaval, T. Matthews, **L.B. Perry**, J. Ely. 2024. *Snowfall Over the Andes: A Convection-Permitting Climate Model*. Meeting of the European Geophysical Union, Vienna, Austria.

King, O., T. Matthews, M. Andrade, J.-L. Garcia, C. Bravo, W. Buytaert, J.M. Calle, A. Dussailant, T. Edwards, I. Irarrázaval, **L.B. Perry**, E. Potter, L. Ticona, B. Davies, J. Ely. 2024. *Establishing Glacier Proximal Meteorological and Glacier Ablation Stations in Different Climatic Zones along the South American Andes*. Meeting of the European Geophysical Union, Vienna, Austria.

**Perry, L.B.** *High-Elevation Weather Stations: Rationale, Insights, and Challenges*. 2021. IGNITE AGU, Annual Meeting of the American Geophysical Union, New Orleans, L.A.

**Perry, L.B.**, G. Casassa, T. Matthews, F. Buglio, A. Espinoza, D. Gonzalez, F. Urbina, A. Elmore. 2021. *A New Meteorological Network in the Vulnerable Southern Andes Water Tower*. Annual Meeting of the American Geophysical Union, New Orleans, LA.

**Perry, L.B.**, T. Matthews, H. Guy, A. Khadka, I. Koch, J. Maurer, A. Elmore, D. Shrestha, D. Aryal, P.A. Mayewski. 2020. *Where Does the World's Highest Glacier Get Its Moisture?* Annual Meeting of the American Geophysical Union, Virtual (Everywhere).

**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-Climat 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 Ice Cap 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

Casassa, G., D. Gonzáles, J. Huenante Sr., F. Buglio, A. Espinoza, A. Segovia, K. Yoshikawa, G. Campos, A.C. Elmore, **L.B. Perry**, R. Zamora, M. Potocki, P.A. Mayewski. 2020. *Assessing Climate Change and Glacier Status in the High Andes of Central Chile*. Annual Meeting of the American Geophysical Union, Virtual (Everywhere).

Clifford, H., M. Potocki, I. Koch, T.C. Sherpa, M. Handley, E. Korotkikh, D. Introne, S. Kaspari, K.R. Miner, T. Matthews, **L.B. Perry**, H. Guy, P. Wagnon, A. Gajurel, P.K. Singh, S. Elvin, A.C. Elmore, A. Tait, P.A. Mayewski. 2020. *Natural and human contributions to pre-monsoon snow and stream chemistry in the Khumbu/Mt. Everest region, Nepal*. Annual Meeting of the American Geophysical Union, Virtual (Everywhere).

**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 Geophysical Union, San Francisco, CA.

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*. 2018. 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 Ice Cap 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 Ice Cap 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. Salzmänn, 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 Ice Cap 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

*Insights from the Highest Weather Stations in the World*. 34<sup>th</sup> Steamboat Weather Summit, Steamboat Springs, CO, 2024.



*From Tuscola to Everest: Climate Science at the Top of the World.* Haywood Community College, Clyde, NC; and First United Methodist Church, Waynesville, 2023.

*Reaching New Heights: Insights from the Highest Weather Stations in the World.* Grandfather Mountain Stewardship Foundation, Linville, NC, 2023.

*Reaching New Heights: Insights from the Highest Weather Stations in the World.* Blowing Rock Country Club, Blowing Rock, NC, 2024.

*Exploration at the Extremes: From the Roof of the World to the Depths of the Ocean.* Keynote address with Jill Tiefenthaler at the 11<sup>th</sup> Annual Appalachian Energy Summit, Appalachian State University, Boone, NC, 2023.

*From Junaluska to Everest: Installing the Highest Weather Stations in the World.* Junaluska Elementary School, Waynesville, NC, 2022.

*From Tuscola to Everest: Installing the Highest Weather Stations in the World.* Haywood Community College, Clyde, NC, 2022.

*Reaching New Heights: Installing the Highest Weather Stations in the World.* Georgia State University, Atlanta, GA, Virtual, 2022.

*Reaching New Heights: Installing the Highest Weather Stations in the World.* Charlotte East Language Academy, Charlotte NC, 2022.

*Reaching New Heights: Installing the Highest Weather Stations in the World.* Hound Ears Club, Foscoe, NC, 2022.

*Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth.* Elk River Country Club, Banner Elk, NC, 2022.

*Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth.* Mount Washington Observatory Science in the Mountains Webinar, 2022.

*Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth.* Jefferson Landing Country Club, Jefferson, NC, 2021.

*Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth.* Carolinas Chapter of the American Meteorological Society, Virtual, 2020.

*Elevating Meteorological Understanding on Everest: Installing the Highest Weather Stations on Earth.* First World Virtual High Mountain Summit in Colombia: Monitoring systems of high mountain forest, paramos and glaciers, Virtual, 2020.

*Taking Everest meteorology to new heights: initial insights from the world's highest weather data.* Central Department of Hydrology and Meteorology Webinar Series 3, Tribhuvan University, Kathmandu, Nepal, 2020.

*Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth.* University of North Carolina at Greensboro, Greensboro, NC, 2019.

*Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth.* Appalachian State University, Boone, NC, 2019.

*Elevating meteorological understanding on Everest: Installing the Highest Weather Stations on Earth.* North Carolina State University, Raleigh, NC, 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, 2019.
- Investigaciones meteorológicas en los Andes tropicales y los Himalayas. Universidad Nacional de San Antonio de Abád de Cusco (UNSAAC), Cusco, Perú, 2019.
- Precipitation-glacier-climate interactions in the Tropical High Andes of southern Peru and Bolivia.* Wake Forest University, Winston-Salem, NC, 2017.
- 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, 2017.
- Precipitation delivery mechanisms in the tropical high Andes: new findings and paleoclimatic implications.* Climate Change Institute, University of Maine, Orono, ME, 2015.
- influences on snowfall event characteristics in the southern Appalachian Mountains.* Department of Geography, University of North Carolina at Greensboro, Greensboro, NC, 2015.
- Investigaciones climatológicas en la Cordillera Vilcanota, Perú.* Cusco Glaciology Group, Peru, 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, 2014.
- 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, 2012.
- Northwest flow snowfall in the Southern Appalachians.* Sigma Xi, Appalachian State University, Boone, NC, 2007.
- Northwest flow snowfall in the Southern Appalachians: topographic influences and synoptic climatology.* Upstate SC Chapter of the American Meteorological Society, Greer, SC, 2005.
- Synoptic climatology of northwest flow snowfall.* Collaborative Science, Technology, and Applied Research (CSTAR) Workshop, Raleigh, NC, 2005.
- Determinants of health: access to care and globalization.* Global Health Forum, Asheville, NC, 2002.
- Globalization and resistance in Andean Bolivia.* Humanities Lecture, University of North Carolina at Asheville, Asheville, NC, 2001.
- Health and inequality: what you should know.* Geography Awareness Week Lecture given at Appalachian State University, Boone, NC, 2000.
- GIS to assess geographic access to primary health care in Andean Bolivia.* Department of International Health, Johns Hopkins University, Baltimore, MD, 1999.
- Glacial lake outburst floods in Khumbu Himal, Nepal.* Department of Geography and Planning, Appalachian State University, Boone, NC, 1999.
- Sir Ernest Shackleton and the West Wind Drift.* Geography Awareness Week Lecture given at Appalachian State University, Boone, NC, 1998.
- Pacha Kuti and the current situation of the indigenous population in Andean Bolivia.* Geography Awareness Week Lecture given at Appalachian State University, Boone, NC, 1996.

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## TEACHING

### Appalachian State University

GHY 1010, *Global Environmental Systems*, 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, Spring 2020, Fall 2020, Spring 2021

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, Summer 2021, Fall 2021, Spring 2022, Fall 2022, Fall 2023

GHY 1020, *Geographic Diversity and Globalization*, 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, Fall 2023

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, *Snow & Ice*, Fall 2016, Spring 2018, Fall 2019

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, 2020, 2021, 2022, 2023

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

2023 *Peru: Climate Change and Water Resources in the Andes* (with C. Cooper)

2022 *Peru: Climate Change in the Andes* (with H. Guy and T. Matthews)

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	<i>Peru: Andean Societies and Environments</i> (with A. Cochran)
2010	<i>Peru: Andean Societies and Environments</i> (with M. Mayfield and A. Seimon)
2009	<i>Ecuador: Mountain Geography, Climate, and Tropical Glaciers</i> (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>
Gilmore, Kristen	M.A.	Geography	Committee Member
Moore, Alex	B.S.	Biology & Geography	Research Mentor
Tomkins, Lara	Ph.D.	Marine, Earth, and Atmospheric Sciences NC State University	Committee Member
Vanden Boom, Isabella	B.S.	Geography	Research Mentor

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#### FORMER GRADUATE AND UNDERGRADUATE 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)
Caldwell, Noah	B.S. (2023)	Geological & Environmental Sciences	Member (Honor's Thesis)
Clifford, Heather	Ph.D. (2022)	Earth Sciences/UMaine	Committee Member
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)
Moreno, Camila	M.A. (2021)	Geography	Member (Thesis)
O'Neill, Alex	B.S. (2018)	Geography	Research Mentor
O'Neill, Alex	M.A. (2021)	Geography	Thesis Advisor
Poremba, Richard	M.A. (2015)	Geography	Research Mentor
Rodda, Charles	Ph.D. (2019)	Earth Sciences/UMaine	Committee Member
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

Kent, Laura	M.Sc. (2021)	Marine, Earth, and Atmospheric Sciences NC State University	Committee Member
Welker, Jonathan	B.S. (2012)	Geography	Chair (Honor's Thesis)

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### MASTERS THESES DIRECTED

- O'Neill, Alex. 2021. *Analytical Hierarchical Modeling of Glacial Lake Outburst Flood Potential in the Khumbu Region, Nepal*. Committee: L.B. Perry (Chair), M. Sugg, S. Shu.
- 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 Ice Cap, 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. Rokoske.

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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*  
*One Earth*  
*Physical Geography*  
*Professional Geographer*  
*Social Science & Medicine*  
*Southeastern Geographer*  
*The Cryosphere*

### Proposal Reviews

National Aeronautics and Space Administration  
National Geographic Society  
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

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  
Firefighter and First Responder, *Fall Creek Volunteer Fire Department*, 2005 to Present  
Skywarn Spotter, *National Weather Service*, 2004 to Present  
Co-Director, *Appalachian State University Mighty Mountaineers Youth Basketball Program*, 2010 to 2016  
Coach, *Tailwind Track Club*, 2009 to 2015  
Meteorological Station Manager, *Grandfather Mountain Stewardship Foundation*, 2006 to 2018  
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* (1,082 m), Boone, NC, 2009 to 2023  
*Beech Mountain* (1,678 m), Beech Mountain, NC, 2007 to Present  
*Bethel Elementary School* (823 m), Bethel, NC, 2010 to 2018  
*Grandfather Mountain* (1,609 m), Linville, NC, 2006 to 2018  
*Hardin Park Elementary School* (975 m), Boone, NC, 2010 to 2012  
*Poga Mountain* (1,021 and 1,113 m), Flat Springs, NC, 2006 to Present  
*Roan Mountain* (1,875 m), Bakersville, NC, 2011 to 2022

### International

*Nevado Ausangate* (6,349 m), Cordillera Vilcanota, Peru, 2022 to Present  
*Bishop Rock*, Mt. Everest (8,810 m), Khumbu Himal, Nepal, 2022 to Present  
*Tupungato Volcano* (6,505 m), Central Andes, Chile, 2021 to 2023  
*Balcony*, Mt. Everest (8,430 m), Khumbu Himal, Nepal, 2019 to 2021  
*South Col*, Mt. Everest (7,945 m), Khumbu Himal, Nepal, 2019 to Present  
*Camp II*, Mt. Everest (6,450 m), Khumbu Himal, Nepal, 2019 to Present  
*Base Camp*, Mt. Everest (5,315 m), Khumbu Himal, Nepal, 2019 to Present  
*Phortse* (3,810 m), Khumbu Himal, Nepal, 2019 to Present  
*Laguna Sibinacocha* (4,875 m), Cordillera Vilcanota, Peru, 2017 to Present  
*Chacaltaya Observatory* (5,160 m), Cordillera Real, Bolivia, 2014 to 2019  
*Queelccaya Ice Cap* (5,650 m), Cordillera Vilcanota, Peru, 2014 to 2021  
*Murmurani Alto* (5,050 m), Cordillera Vilcanota, Peru, 2012 to 2017  
*Osjollo Anante Ice Cap* (5,540 m), Cordillera Vilcanota, Peru, 2012 to 2015

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## ALPINE MOUNTAINEERING EXPERIENCE

### Summary

Dr. Perry has over 30 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 Ancohumá (6,427 m), a first ascent of the southwest face of Sorol Este (5,460 m), and extensive field work on glaciers 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 163 nights (above 6,000 m on 24 nights) and has climbed to the National Geographic and Rolex Mount Everest weather stations at Camp 2 (6,450 m) six times and at the South Col (7,945 m) twice.

### Climbing and Research Expeditions on Glacierized Peaks

*Mount Everest (8,849 m), Khumbu Himal, Nepal; May 2023.* Climbed to Camp II at 6,450 m twice as leader of an expedition to conduct essential maintenance on the National Geographic and Rolex weather stations.

*El Plomo (5,434 m), Chile; November 2022.* Climbed to summit in one day from Valle Nevado for acclimatization/training in preparation for possible maintenance visit to Tupungato Volcano station.

*Nevado Ausangate (6,384 m), Cordillera Vilcanota, Peru; July 2022.* Climbed to 6,349 m to install a weather station as part of the National Geographic and Rolex Perpetual Planet Amazon Expedition.

*Mount. Everest (8,849 m), Khumbu Himal, Nepal; May 2022.* Climbed to Camp II at 6,450 m twice as leader of an expedition to maintain the National Geographic and Rolex weather stations and install a new station at the Bishop Rock (8,810 m).

*Volcán Tupungato (6,570 m), Central Andes, Chile; February 2021.* Climbed to 6,505 m to install a weather station as part of a National Geographic research expedition.

*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.

*Mount. 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 Ice Cap (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.

*Ancohumá (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.

*Champi 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 Ice Cap (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 Ice Cap (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.

*Ancohumá (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 Ice Cap (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.

*Ancohumá (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 Ice Cap (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 Ice Cap (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 Ice Cap (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 Ice Cap (5,650 m), Cordillera Vilcanota, Peru; October 2014.* Serviced AWS.

*Quelccaya Ice Cap (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 Ice Cap (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 Ice Cap (5,540 m), Cordillera Vilcanota, Peru; July 2013.* Serviced AWS installed in April 2012.

*Osjollo Anante Ice Cap (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 Ice Cap (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 Ice Cap (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

GIScience Search Committee (Chair), 2023-2024  
Chairperson, Promotion & Tenure Document and Merit Pay Policy Committee, 2021-2022  
Chairperson Search Committee, 2019-2020  
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, 2018 to Present  
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

Mountain Studies Lecture Committee, 2020-2022  
Outstanding Alumni Committee, 2011-2021  
Appalachian Atmospheric Interdisciplinary Research (AppalAIR), 2008 to Present  
Grade Appeal Committee, 2008

### Appalachian State University

Travel Policy & Procedures Committee, 2022 to Present  
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, 2019  
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*  
*Eastern Snow Conference*

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## HONORS AND AWARDS

- 2022 Appalachian State University campus nominee for the UNC System O. Max Gardner Award  
2021 Honored as a ***National Geographic Explorer*** for receipt of grant to investigate Glacier-Climate Interactions on Nevado Ausangate, Peru  
2021 ***100 Scholars Research Award*** for exemplary research of a tenured faculty member.  
2019 ***Provost's Award for Excellence in Research, Scholarship, and Creative Activity***  
2016 ***Wachovia Award for Environmental Research*** in the Southern Appalachian Mountains  
2011 ***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 ***Outstanding Thesis Award*** for M.A. Thesis on *Health Personnel Distribution and Access to Health Care in Andean Bolivia*  
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

2023, September – London and Lake District, England, UK  
2023, August – Drakensberg Mountains, South Africa  
2023, July – Cordillera Vilcanota, Peru  
2023, June – Everest 75<sup>th</sup> Anniversary Celebration, Geneva, Switzerland  
2023, April to May – Khumbu (Everest) Region, Nepal  
2023, March – Cordillera Real, Bolivia  
2022, November – Santiago and Valle Nevado, Chile  
2022, July – Cordillera Vilcanota, Peru  
2022, April to May – Khumbu (Everest) Region, Nepal  
2021, February to March – Tupungato Volcano, Chile  
2019, August – Cusco, Peru; La Paz, Bolivia; Cordillera Real, Bolivia  
2019, April to May – Khumbu (Everest) Region, Nepal  
2019, January – Khumbu (Everest) Region, Nepal  
2018, September – Cordillera Vilcanota, Peru  
2018, June to July – Cordillera Vilcanota, Peru; Cordillera Apolobamba, Cordillera Real, Bolivia  
2018, March – Quelccaya Ice Cap, 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

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## SELECTED MEDIA LINKS

[Tuscola to Everest: Haywood-grown climate scientist and explorer to share peak-trotting expeditions](#), *The Mountaineer*, 30 September 2023.

[On Everest, App State faculty fine-tune tools for sky-high scholarship](#), *Appalachian Today*, 27 July 2023.

[Highest Weather Station in the Tropical Andes Installed Near the Summit of Nevado Ausangate in Peru](#), *National Geographic Society Newsroom*, 3 August 2022.

[Measuring the top of the world: Tuscola alum leads Everest expedition](#), *Smoky Mountain News*, 15 June 2022.

[App State Mountaineers experience real-world climate science in Peru](#), *Appalachian Today*, 16 September 2022.

[Baker Perry: Forecasting weather on top of the world](#), *National Geographic*, 13 September 2022.

[Live streaming weather data from the top of the world](#), *CNN Weather Brief*, 20 July 2022.

[Measuring the top of the world: Tuscola alum leads Everest expedition](#), *Smoky Mountain News*, 15 June 2022.

[A return to Everest: AppState's Dr. Baker Perry leads climate science expedition to the world's highest mountain](#), *Appalachian Today*, 7 June 2022.

[Next-gen weather station installed near Everest's summit](#), *National Geographic Magazine*, 25 May 2022.

[Sound Effect: Baker Perry and Panuru Sherpa on installing the highest weather station in the world](#), *Appalachian Today*, 15 December 2021.

[Dr. Baker Perry inspires students to reach new heights](#), *Appalachian Today*, 1 June 2021.

[Highest weather station in the Andes will help scientists search for climate answers](#), *National Geographic Magazine*, 27 April 2021.

[From the Smokies to the Sea: The climate challenges facing North Carolina](#), *WTVD ABC 11 Eyewitness News*, 22 April 2021.

[AppState climate 'superhero' Dr. Baker Perry inspires young Brazilian scientist](#), *Appalachian Today*, 16 April 2021.

[Everest Summits May Become Easier Due to Climate Change](#), *Outside Magazine*, 20 November 2020.

[Tracing the Moisture that Nourishes the World's Highest Glacier](#), *EOS Science News by AGU*, 14 December 2020.

[Installing a Weather Station on Mt. Everest](#), *WFAE 90.7 National Public Radio*, 28 June 2019.

[App State researchers scale Mount Everest to conduct climate research as part of National Geographic expedition](#), *Appalachian Today*, 14 June 2019.

[Inside the Everest expedition that built the world's highest weather station](#), *National Geographic*, 13 June 2019.

[World Record for Highest Altitude Weather Station on Land](#), *Guinness World Records*, 2019.

[AppState Leads Climate Research at the Top of the World](#), *Appalachian Today*, 15 December 2019.

[Dr. Baker Perry – ‘cornerstone of research’ in Appalachia and the Andes](#), *Appalachian Today*, 15 March 2019.

[Scientists, students, and Quechua community partner to understand climate change](#), *Appalachian Magazine*, 28 June 2012.

[Research project aims to improve WNC snowfall projections](#), *Appalachian Magazine*, 13 October 2008.