

Curriculum Vitae

EDUCATION

M.S. Geosciences, University of Montana **December 2015**

Advisor: Dr. Joel Harper

U of M Group for Quantitative Study of Snow and Ice

Thesis: *"Temporal Evolution of Basal Water Pressure and Ice Velocity Along a 50 km Flow Line Transect of Western Greenland"*

M.S. Atmospheric Science, University of Houston **May 2012**

Advisor: Dr. Barry Lefer

Thesis: *"Comparison of MODIS snow albedo to field measurements in central Greenland"*

B.S. Geology, B.S. Environmental Science, University of Oregon **June 2005**

Honors thesis: *"Evidence for shear in accreted terranes of eastern Oregon."*

EXPERIENCE

Inversion Labs, LLC **Jan 2016 – present**

Founder and co-owner. Data analysis, graphic visualization, software development.

Design-build-installation for environmental monitoring systems.

Jackson Hole Mountain Guides **Jan 2016 – present**

Avalanche course instructor (AIARE).

Jackson Hole Ski Patrol **Nov 2016 – April 2017**

Ski patroller, avalanche lab technician.

Summit Research Station, Greenland **April – Nov 2012**

Instrument technician for the ICECAPS campaign. Operation/maintenance of atmospheric instrumentation including: cloud radar, LiDARs, microwave radiometers, infrared interferometer, SODAR, twice daily weather balloon launches, and snow crystal microphotography.

T.M. McCoy & Co., Consulting Geologists **Sept 2006 – Dec 2007**

Wellsite geology and mudlogging for oil and gas drilling in Wyoming and Colorado.

Pierson Land Works **Sept 2005 – June 2006**

Field surveyor, operating Total Station instruments, GPS, and levels for property surveys in Teton County, WY.

PUBLICATIONS (* indicates peer-reviewed articles)

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- Wright, P.** (2017), December 2016 deep slab avalanche cycle in northwest Wyoming: Analysis using historical loading thresholds, *The Avalanche Review*, Vol. 35.4, 40-41.
- Wright, P. J.**, B. Comey, C. McCollister, and M. Rheam (2016), Deep slab instability: Loading, temperature, and settlement rate thresholds related to failure - Part II, *Proceedings of the 2016 International Snow Science Workshop*, Breckenridge, CO, USA.
- Wright, P. J.**, B. Comey, C. McCollister, and M. Rheam (2016), Estimation of new snow density using 42 seasons of meteorological data from Jackson Hole Mountain Resort, Wyoming, *Proceedings of the 2016 International Snow Science Workshop*, Breckenridge, CO, USA.
- * **Wright, P. J.**, J. T. Harper, N. F. Humphrey, and T. W. Meierbachtol (2016), Measured basal water pressure variability of the western Greenland Ice Sheet: Implications for hydraulic potential, *Journal of Geophysical Research – Earth Surface*, 121, doi:10.1002/2016JF003819.
- * Meierbachtol, T. W., J. T. Harper, N. F. Humphrey, and **P. J. Wright** (2016), Mechanical forcing of water pressure in a hydrologically isolated reach beneath Western Greenland's ablation zone, *Annals of Glaciology* (manuscript in press).
- * **Wright, P.**, M. Bergin, J. Dibb, B. Lefer, F. Domine, T. Carman, C. Carmagnola, M. Dumont, Z. Courville, C. Schaaf, and Z. Wang (2014), Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland, *Remote Sensing of Environment*, 140, 118-129, doi:10.1016/j.rse.2013.08.044.
- * Carmagnola, C. M., F. Domine, M. Dumont, **P. Wright**, B. Strellis, M. Bergin, J. Dibb, G. Picard, Q. Libois, L. Arnaud, and S. Morin (2013), Snow spectral albedo at Summit, Greenland: comparison between in situ measurements and numerical simulations using measured physical and chemical properties of the snowpack, *The Cryosphere*, 7, 1139-1160, doi:10.5194/tc-7-1139-2013.

PRESENTATIONS

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- Wright, P. J.**, B. Comey, C. McCollister, and M. Rheam, Deep slab instability: Loading, temperature, and settlement rate thresholds related to failure - Part II, *2016 International Snow Science Workshop*, Breckenridge, CO, USA, Oct. 2016 (*poster*).
- Wright, P. J.**, B. Comey, C. McCollister, and M. Rheam, Estimation of new snow density using 42 seasons of meteorological data from Jackson Hole Mountain Resort, Wyoming, *2016 International Snow Science Workshop*, Breckenridge, CO, USA, Oct. 2016 (*poster*).
- Wright, P. J.**, J. T. Harper, N. F. Humphrey, and T. W. Meierbachtol, Constraints on the magnitude and variability of basal water pressure, western Greenland Ice Sheet margin, *International Symposium on Hydrology of Glaciers and Ice Sheets*, Höfn, Iceland, June 2015 (*poster*).

Meierbachtol, T. W., J. T. Harper, N. F. Humphrey, and **P. J. Wright**, In situ constraints on the relationship between basal water flux, water pressure, and ice velocity from borehole experiments in western Greenland, *International Symposium on Hydrology of Glaciers and Ice Sheets*, Höfn, Iceland, June 2015 (*oral presentation*).

Dumont, M., C. M. Carmagnola, F. Domine, **P. Wright**, M. Bergin, J. Dibb, L. Arnaud, G. Picard, N. Champollion, Q. Libois and S. Morin, Modeled and measured albedo of surface snow over central Greenland, *EGU 2012*, Vienna, Austria, April 2012 (*poster*).

Wright, P., M. H. Bergin, J. E. Dibb, F. Domine, C. Carmagnola, Z. Courville, I. N. Sokolik, and B. L. Lefer, Understanding the factors that control snow albedo over central Greenland, *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA, Dec. 2011 (*poster*).

Strellis, B., M. Bergin, I. Sokolik, J. Dibb, P. Sheridan, J. Ogren, and **P. Wright**, The Influence of Light Absorbing Aerosols on the Radiation Balance Over Central Greenland, *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA, Dec. 2011 (*oral presentation*).

Wright, P., C. Carmagnola, F. Domine, J. Dibb, and M. Bergin, Spectral albedo and snow specific surface area at Summit, Greenland 2011, *3rd workshop on Air-Ice Chemical Interactions (AICI)*, Columbia University, New York, NY, June 2011 (*poster*).

SKILLS

- Programming languages: Python, Matlab, Unix Shell (Bash), HTML/CSS, CRBASIC
- Solar power system design and installation for remote, unattended sites.
- Differential GPS installation, maintenance, and data processing (Trimble receivers, GAMIT-GLOBK-TRACK processing)
- Meteorological station design and installation.

BOARD POSITIONS

- Member, **Teton County Natural Resources Technical Advisory Board (NRTAB)**, 2012 – present. Six-member board advising Teton County Commissioners (Jackson, WY) on natural resource science as related to policy and planning.
- Proposal review panel member, **NASA Citizen Science for Earth Systems (CSES)**, Nov. 2016 (Washington, D.C.). Specialty area: snow science and albedo measurements.

CERTIFICATIONS

- Wilderness First Responder (WMI/NOLS, 2006, re-certified 2018)
- Outdoor Emergency Care Technician (JHSP, 2017)
- Pro I Avalanche certification (AAI, 2018)
- AIARE Avalanche Course Instructor (2016)