

(1) NAME

Andrew D. Parsekian

(2) EMPLOYER

University of Wyoming

(3) CITY, STATE, COUNTRY

Laramie, Wyoming, USA

(4) HISTORY OF EMPLOYMENT

- (2022 –) Director, Hydrologic Science Program, University of Wyoming
- (2020 –) Associate Professor, Department of Geology and Geophysics, University of Wyoming
- (2020 –) Associate Professor, Department of Civil and Architectural Engineering, University of Wyoming
- (2014 – 2020) Assistant Professor, Department of Geology and Geophysics, University of Wyoming
- (2014 – 2020) Assistant Professor, Department of Civil and Architectural Engineering, University of Wyoming
- (2012 – 2013) Lecturer, Department of Geophysics, Stanford University

(5) DEGREES

- 2011 Ph.D., Environmental Science, Rutgers-Newark, Newark, NJ, USA.
- 2005 B.S., Environmental Science, Dickinson College, Carlisle, PA, USA.

(6) NARRATIVE OF RESEARCH EXPERIENCE

My early research focus was on carbon cycling through wetlands using geophysical measurement. This grew to include investigation of arctic and boreal permafrost processes. Most recently, I have expanded my interests to observing mountain hydrology processes using both static and time-lapse imaging methods. My methodological foci have included ground penetrating radar, electrical resistivity tomography, seismic refraction tomography, nuclear magnetic resonance, and electromagnetic methods.

(7) SHORT LIST OF KEY PUBLICATIONS (52 total)

- Correa Rangel, R., A.D. Parsekian, L. Farquharson, B.M. Jones, N. Ohara, A.L-T. Creighton, B. Gagliotti, M. Kanevskiy, A. Breen, H. Bergstedt, V.E. Romanovsky and K. Hinkel (2021) Geophysical Observations of Taliks Below Drained Lake Basins on the Arctic Coastal Plain of Alaska. *Journal of Geophysical Research: Solid Earth*.
- Claes, N., G. Paige, A.D. Parsekian (2019) Uniform and lateral preferential flow under flood irrigation at field scale. *Hydrological Processes*.

- Parsekian, A.D., A.L. Creighton, B.M. Jones, and C.D. Arp (2019) Surface nuclear magnetic resonance observations of permafrost thaw below floating, bedfast, and transitional ice lakes. *Geophysics*. 84(3), p 1-13.
- Creighton, A. L., A.D. Parsekian, M. Angelopoulos, B.M. Jones, A. Bondurant, M. Engram, J. Lenz, P.P. Overduin, G. Grosse, E. Babcock & C.D. Arp, (2018). Transient electromagnetic surveys for the determination of talik depth and geometry beneath thermokarst lakes. *Journal of Geophysical Research: Solid Earth*. 123(11), p. 9310-9323.
- Thayer, D, A.D. Parsekian, K. Hyde, H. Speckman, B. Ewers, D. Beverly, M. Covalt, T. Kelleners, N. Ohara, N. Fantello, T. Rogers, W.S. Holbrook (2018) Hydrologic partitioning of snowmelt on a snow-dominated subalpine hillslope. *Water Resources Research*.
- Parsekian, A.D., K. Singha, B. Minsley, W.S. Holbrook and L. Slater (2015) Multiscale Geophysical Imaging of the Critical Zone. *Reviews of Geophysics*, 53, 1–26.
- Schaefer, K, L. Liu, A.D. Parsekian, E. Jafarov, A. Chen, T. Zhang, A. Gusmeroli, H.A. Zebker, T. Schaefer (2015) Remotely Sensed Active Layer Thickness (ReSALT) at Barrow, Alaska using Interferometric Synthetic Aperture Radar. *Remote Sensing*, 7 (4), 3735-3759.
- Parsekian, A.D., G. Grosse, J. O. Walbrecker, M. Müller-Petke, K. Keating, L. Liu, B. M. Jones, and R. Knight (2013) Detecting unfrozen sediments below thermokarst lakes with Surface Nuclear Magnetic Resonance. *Geophysical Research Letters*, 40, 1-6. doi:10.1002/grl.50137.
- Parsekian, A. D., L. Slater, S. Sebestyen, R. Kolka, D. Ntarlagiannis, J. Nolan and P.J. Hanson (2012) Uncertainty in Peat Volume and Soil Carbon Estimated using Ground-Penetrating Radar and Probing. *Soil Science Society of America Journal*, 76(5), 1911 – 1918.
- Parsekian, A. D., L. Slater and D. Giménez (2012) Application of ground penetrating radar to measure near-saturation soil water content in peat soils, *Water Resources Research*, 48, W02533.

(8) HONORS

- 2021, College of Arts & Sciences Extraordinary Merit Research, U. Wyoming, Laramie, WY.
- 2020, Faculty Fellow, University of Wyoming, Laramie, WY.
- 2016, Rutgers Medal, 250th Anniversary Fellow, Rutgers University, Newark, NJ.
- 2016, Early Career Award: Environmental & Engineering Geophysics Society, Denver, CO.
- 2012, Rutgers-Newark Dean's Doctoral Dissertation Award, Rutgers University, Newark, NJ.
- 2011, Student Presentation Award: Mid-Atlantic Chapter of the ESA, Montclair, NJ.
- 2009, Graduate Student Excellence Award, Rutgers University, Newark, NJ.

(9) PROFESSIONAL SOCIETY MEMBERSHIP

- 2007 – present, American Geophysical Union