

CURRICULUM VITAE

Eric S. Levenson

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EDUCATION

- Expected 2025 **PhD in Geography, University of Oregon**
Advisor: Prof Sarah W. Cooley. Graduate affiliate of the Cryo-Hydro Observation Leaders Lab at Duke University Nicholas School of the Environment, Earth and Climate Sciences
- 2021 **MS in Geography, University of Oregon**
Advisor: Prof Mark Fonstad. Thesis: *Sources of coarse sediment grain-size variability along the upper Sandy River revealed using UAV remote sensing.*
- 2015 **BA in Environmental Science and Anthropology, Bowdoin College**
Sarah and James Bowdoin Scholar. Education Minor.

HONORS AND AWARDS

- 2023-2026 **NASA Future Investigator in Earth and Space Science and Technology (FINESST)** – Full funding to pursue a PhD focused on improving our capacity to observe changes to surface water from spaceborne instruments.
- 2024 **GSA Graduate Student Research Grant** – Recognition and funding in support of a field campaign to Alaska validating satellite observations.
- 2023 **Rippey Award, University of Oregon Department of Geography** – Support for computing costs associated with PhD work.
- 2021 **Rippey Award, University of Oregon Department of Geography** – Support for fieldwork on the Sandy River.
- 2015 **Riley Research Award, Bowdoin College of Anthropology** – Funded research on Maine’s boat building industry and its adaptations to environmental change.
- 2015 **Sarah and James Bowdoin Scholar, Bowdoin College**

Total Funding Awarded: \$156,094.00

PROFESSIONAL EXPERIENCE

- 2023-present NASA Graduate Student Fellow, University of Oregon, *Eugene, OR*
- 2021-2023 Graduate Research Assistant, University of Oregon, *Eugene, OR*

2023-2024	Instructor, Rios to Rivers Paddle Tribal Waters Program, <i>Klamath River Basin</i>
2019-2021	Graduate Teaching Assistant, University of Oregon, <i>Eugene, OR</i>
2016-2019	Math and Science Teacher, The Sage School, <i>Hailey, ID</i>
2019	Whitewater Kayaking Coach, Jackson Hole Youth Kayak Club
2015-2016	Mathematics Teaching Fellow, Maine Coast Semester, <i>Wiscasset, ME</i>
2013-2016	Trip Leader, Overland Summers, <i>Alaska, Switzerland, Colorado, New England</i>
2015	Admissions Interviewer, Bowdoin College, <i>Brunswick, ME</i>

PUBLICATIONS

Accepted:

Levenson, E.S., S.W. Cooley, A. Mullen, E.E. Webb, J.D. Watts. (accepted) Glacial history modifies permafrost controls on the distribution of lakes and ponds. *Geophysical Research Letters*

In prep:

Levenson, E.S., S.W. Cooley. (in prep). The influence of snowmelt timing on the timing and magnitude of seasonal lake fluctuations across the Arctic.

Levenson, E.S. (in prep). Improving surface water storage estimates using a novel combination of optical remote sensing and Surface Water and Ocean Topography altimetry.

Published:

Mullen, A., J. D. Watts, B. M. Rogers M. L. Carroll, C.D. Elder, J. Noomah, Z. Williams, A. Bredder, E. Rickenbaugh, J. A. Caraballo-Vega, **E.S Levenson**, S.W. Cooley, S. Potter, Y. Yang, G. Fiske, C.E. Miller, S.M. Natali, T.A Douglas, E.D Kyzivat. (2023). Using High-Resolution Satellite Imagery and Deep Learning to Track Dynamic Seasonality in Small Water Bodies. *Geophysical Research Letter*, 50(7).

Levenson, E.S., and Fonstad M.A. 2022, Characterizing coarse sediment grain size variability along the upper Sandy River, Oregon, via UAV remote sensing, *Geomorphology*, <https://doi.org/10.1016/j.geomorph.2022.108447>

Chafe, O. E., Broz, A. P., **Levenson, E. S.,** Farinacci, M. D., Anderson, R. O., & Silva, L. C. (2024). The spatiotemporal domains of natural climate solutions research and strategies for implementation in the Pacific Northwest, USA. *Frontiers in Climate*, 6, 1273632.

PRESENTATIONS

- Levenson, E.S.,** S.W. Cooley, A. Mullen, E. Webb, J. Watts. Glacial History Modifies Permafrost Controls on the Distribution of Arctic-Boreal Lakes and Ponds. *AGU Fall meeting*. Oral Presentation. 2024.
- Levenson, E.S.,** S.W. Cooley. The Timing and Magnitude of Pan-Arctic Seasonal Lake Area fluctuations from 2016-2021. *AGU Fall meeting*. Poster Presentation. 2024.
- Webb, E.E., A.K. Liljedahl, **E.S. Levenson,** S.W. Cooley, Lake Area Change Across the Northern Permafrost Zone. *AGU Fall meeting*. Oral Presentation. 2024.
- A. Mullen, J. Watts, S.W. Cooley, **E.S. Levenson,** M. Carroll, ...B.M. Rogers. Coupling Cubesat Remote Sensing and a Process-based Model for Regional Estimates of Aquatic Greenhouse Gas Emissions. Poster Presentation. 2024.
- Levenson, E.S.,** Cooley, S.W., Mullen, A., Van Dusen, I. Analyzing local to regional scale patterns in surface water variability and their interaction with permafrost using a new high resolution Alaska lake database, *AGU Fall meeting*, Poster Presentation. 2023.
- Pletcher, A., S.W. Cooley, **E.S. Levenson,** Remote sensing of ice dynamics in the Yukon-Kuskoswim River Delta, AK. *AGU Fall meeting*, Poster Presentation. 2023.
- A. Simpson, L. Karlstrom, S.W. Cooley, **E.S. Levenson.** Ephemeral lakes as a window into the enigmatic high cascades aquifer: Results from modeling, remote sensing, and field observations. *AGU Fall meeting*, Poster Presentation. 2023.
- Levenson, E.S.,** Cooley, S.W., Mullen, A., Lake distribution and dynamics in the Alaskan Arctic from 2016-2021, *AGU Fall meeting*, Poster Presentation. 2022.
- Cooley, S.W., **E.S. Levenson,** Leveraging novel satellite technologies to better understand permafrost-surface water feedbacks. Invited Oral Presentation. 2022.
- Van Dusen, I., Cooley, S.W., **E.S. Levenson,** Assessing the Accuracy of Planet and Sentinel-2 Derived Water Maps through in situ GNSS Validation. Oral Presentation. 2022.
- Levenson, E.S.** Remotely sensed grain-size distributions at high resolutions and across large extents reveals that bar-scale position modulates grain-size response to channel width within the upper Sandy River, Oregon. *AGU Fall meeting*. Oral Presentation. 2021.
- Levenson, E.S.** Hyperscale sediment grain-size mapping and sorting in relation to channel morphology. *American Association of Geographers*. Poster Presentation. 2021.
- Levenson, E.S.** Methodological approaches to fluvial grain-size remote sensing. *Bretz Club Mini-Conference*. 2021.

SERVICE AND LEADERSHIP

2022-2023 Graduate Representative to the UO Geography Diversity Committee

2022-2024 President, UO Chapter of the American Society for Photogrammetry and Remote Sensing

Swift Water Rescue, Wilderness First Responder, AIARE Level 1 Avalanche Certifications