**Kelly A. Loria**

Postdoctoral Researcher, Desert Research Institute, Division of Hydrologic Sciences

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**Education**

2020 – 2025 **University of Nevada, Reno**

Ph.D., Department of Natural Resources and Environmental Science,

NSF Graduate Research Fellow

2014 – 2017 **University of Colorado, Boulder**

B.A., Ecology and Evolutionary Biology, College of Arts and Sciences,

Honors distinction in research

2013 – 2014 **Diablo Valley Community College**

Associate degree in environmental science

**Academic Appointments**

2025 – present **Postdoctoral Researcher, Desert Research Institute (DRI)**

Division of Hydrologic Sciences

2017 – 2020Limnology program manager for Niwot Ridge Long Term Ecological (LTER)

ProgramBoulder, CO

**Publications**  (*students mentored are underlined)*

**Loria K,** Lowman H, Krause J, Katona L, Naranjo R, Scordo F, Harpold A, Chandra S, and Blaszczak J (2025). The influence of mountain streamflow on nearshore ecosystem metabolism in a large, oligotrophic lake across drought and wet years. *Limnology and Oceanography.* https://doi.org/10.1002/lno.70157

Scamardo J, Munger W, **Loria K**, Nauman B, Wang J, Leopold S, Heggli A, Huntly N, Baker M, and Meadow A (2024). Restoring Endangered Streams: The Science, Practice, and Law of Instream Process-Based Restoration Amid Climate Change. *Journal of Rangeland Ecology & Management.* https://doi.org/10.1016/j.rama.2024.08.032

Blaszczak J, **Loria K**, Krause J, Lowman H, Chandra S (2024). Making the smart watershed-to-lake connection: using high-frequency sensors and process-based aquatic ecosystem models to predict nearshore greening in Lake Tahoe. Water Quality Report to Nevada Division of State Lands.

Christianson K, **Loria K**, Blanken, D, Caine N, and Johnson P (2021). On thin ice: Linking elevation and long‐term losses of lake ice cover. Limnology and Oceanography Letters. https://doi.org/10.1002/lol2.10181

**Loria K,** McKnight D, Ragar D, and Johnson P (2020) The life aquatic in high relief: shifts in the physical and biological characteristics of alpine lakes along an elevation gradient in the Rocky Mountains, USA. Aquatic Sciences, 82(1), 11. https://doi.org/10.1007/s00027-019-0684-6

**Loria K**, Christianson K, and Johnson P (2020). Phenology of alpine zooplankton populations and the importance of lake ice-out. Journal of Plankton Research, 42(6), 727-741. https://doi.org/10.1093/plankt/fbaa050

**Loria K** (2017) Freshwater zooplankton communities as indicators of habitat quality: Testing Responses to multiple disturbances. Undergraduate Honors Theses.

***In review or preparation:***

**Loria K,** Lowman H, Krause J, Scordo F, Harpold A, Chandra S, and Blaszczak J (2025). Mountain stream ecosystem metabolism and nitrogen cycling responses to hydroclimatic volatility. Submitted to the *Journal of Geophysical Research: Biogeosciences.*

Lowman H, **Loria K**, Katona L, Krause J, Chandra S, MacIntyre S, Melack J, Naranjo R, and Blaszczak J (2025). Daily dissolved oxygen dynamics mediated by light and streamflow in littoral regions of an oligotrophic mountain lake. In preparation for *Limnology and Oceanography Letters.*

**Loria K**, Davidson J, and Blaszczak J (2025). Contrasting broad and fine scale drivers of spatial synchrony in stream ecosystem productivity. In preparation for *Global Change Biology.*

**Presentations** (\* indicates oral presentation)

**\*Loria K,** Lowman H, Krause J, Katona L, Genzoli L, Harpold A, Chandra S, and Blaszczak J (May 2025). Spatiotemporal variation in mountain stream metabolism and nitrogen cycling across contrasting flow regimes. Society for Freshwater Science. 2025 Summer meeting. *Oral presentation.*

**\*Loria K,** Lowman H, Krause J, Katona L, Naranjo R, Scordo F, Harpold A, Chandra S, and Blaszczak J (June 2024). Upstream efficiency and downstream productivity: Linking Mountain stream processes with near-shore productivity in the Lake Tahoe Basin (California‐Nevada, USA). Society for Freshwater Science. 2024 Summer meeting. *Oral presentation.*

**\*Loria K**, Lowman H, Sudeep C, and Blaszczak, J (June 2023) Mountain streams’ role in governing physical drivers of nearshore metabolism: a case study of contrasting flow regimes in the Lake Tahoe Basin. Association for the Sciences of Limnology and Oceanography. Summer 2023 Meeting.

**Loria K,** Sudeep C., and Blaszczak, J (May 2022) Seasonal variation in nitrate uptake and ecosystem productivity rates in mountain streams with contrasting flow regimes in the Lake Tahoe Basin. In the Joint Aquatic Sciences Meeting (JASM*).* Summer 2022 Meeting. *Poster presentation.*

**Loria K**, and Blaszczak, J (2021, December). Linkages Between Ecosystem Productivity and Nitrogen Uptake in Mountain Streams with Contrasting Flow Regimes in the Lake Tahoe Basin. In AGU Fall Meeting Abstracts (Vol. 2021, pp. H15I-1144). *Poster Presentation.*

**Loria K,** and Blaszczak, J (2021, May). Modeling mountain stream metabolism: methods for linking upland rates of biotic nutrient processing with nearshore productivity in the Tahoe Basin. Society for Freshwater Science. 2021 Virtual meeting. *Poster presentation.*

**\*Loria K**, McKnight D, Ragar D, and Johnson P (2018) Comparative survey of the abiotic and biotic characteristics of lakes across an elevation gradient in the Rocky Mountains, USA. *Association for the Sciences of Limnology and Oceanography.* 2018 Summer Meeting. *Oral Presentation.*

**\*Loria K** (2017) The effects of elevation on the plankton communities of alpine lakes. *Tenth Annual Guild of Rocky Mountain Ecologists and Evolutionary Biologists.* 2017 Summer Meeting*. Poster Presentation.*

**\*Loria K** (2015) Biotic Implications of Climate Change on Alpine Lakes. *Research experience for undergraduate oral presentation at the University of Colorado Boulder Mountain Research Station*

**Teaching**

**Teaching Assistantship:** NRES 295 Wildlands Hydrology

University of Nevada, Reno; January-May 2021 and 2024

* Coordinated lectures, taught guest lectures, hosted labs, and held weekly office hours to help with scientific writing and graded assignments.

**Teaching Assistantship:** NRES 210 Environmental Pollution

University of Nevada, Reno; January-May 2024

* Coordinated lectures, taught guest lectures, helped with course material, and graded assignments during weekly office hours.

**Teaching Assistantship:** ENV 101 Introduction to Environmental Science

University of Nevada, Reno; January-May 2021

* Coordinated lectures, class resources, and graded assignments held weekly office hours to help with material.

**Teaching Assistantship:** NRES 422/622 Soil Physics

University of Nevada, Reno; August-December 2020

* Prepared laboratory kits and exercises for students, coordinated lectures, class resources, and graded assignments.

**Teaching Assistantship:** NRES 322 Soil science

University of Nevada, Reno; August-December 2020

* Coordinated lectures, class resources, and graded assignments held weekly office hours to help with material.

**Summer science programming:** NevadaFIT

University of Nevada, Reno; August 2022 and 2023

* Two-day limnology field course with incoming natural science undergraduate students

**Science mentor: University of Nevada, Reno: 2021-present**

* REU student Rija Masroor on a project looking at surface water patterns in dissolved organic material.
* McNair scholar and NURA recipient Paola Miramontes-Gonzalez investigates longitudinal patterns in urban stream chemistry and stable water isotopes.
* NV EPSCoR summer research fellow Rob Miller works measuring nearshore N-fixation rates in Lake Tahoe.

**Science mentor: University of Colorado, Boulder: 2017-2020**

* Field and lab experience to two NSF funded Research Experiences for Undergraduates at the University of Colorado Mountain Research Station
* Field and lab experience to five Undergraduate Research Opportunities Program students (three of whom used their projects to complete undergraduate honors thesis)

**Grants and Awards**

* **2024** MtnClim Student Travel Scholarship ($350)
* **2024** Graduate Student Association Travel Grant to Philadelphia PA SFS Meeting ($500)
* **2023** Graduate Student Association Travel Grant to Palma Spain for ASLO Meeting ($750)
* **2021** Graduate Student Association Travel Grant to New Orleans for American Geophysical Union Fall Meeting ($500)
* **2021** AGU Student Travel grant for Fall Meeting($1000)
* **2021** Graduate Student Association Spring Research Award for Survey of Caldor Fire on stream water quality ($1,500).
* **2021-2022** The Southwest Climate Adaptation Science Center Natural Resources Workforce Development Fellowship ($8,000)
* **2021** National Science Foundation Graduate Research Fellow
* **2020** Honorable Mention in the National Science Foundation Graduate Research Fellowship Program competition.
* **2020** University of Nevada Reno Graduate Dean's Merit Scholar for students who show the potential to make substantive contributions to their discipline ($10,000).
* **2020** Whittell Forest Graduate Research Fellowship for University of Nevada Reno graduate research ($1,500).
* **2016** Undergraduate Research Opportunities Program (UROP) to fund a research project in which we sampled lakes North and South of the Green Lakes Valley ($3,000).
* **2016** Marian and Gordon Alexander Memorial Fellowship Award for 2016 to support research related to the living study of mountains ($5,000).
* **2015** National Science Foundation for Research Experience for Undergraduates (REU) in Ecology and Evolutionary Biology to participate in a project that sampled alpine lakes in Rocky Mountain National Park ($5,000).
* University of Colorado, Boulder: Dean’s List (2015-2017).