

Danielle Hare

Postdoctoral Fellow

Cary Institute of Ecosystem Studies

Millbrook, NY

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<http://daniellehare.weebly.com>

EDUCATION

2022 **Doctor of Philosophy in Natural Resources and the Environment**
University of Connecticut
Dissertation Title: *Climate change effects on the temperature regimes and carbon processing of stream ecosystems*
Advisor: Dr. Ashley M. Helton
Additional Coursework: Education Psychology

2015 **Master of Science in Geosciences**
University of Massachusetts, Amherst
Thesis Title: *Hydrogeological control on spatial patterns of groundwater seepage in peatlands*
Advisor: Dr. David F. Boutt

2011 **Bachelor of Science in Geology**
Syracuse University
Undergraduate Research: *The effect of beaver dams on geochemistry of the hyporheic zone at varied depth and location over a range of discharges during flood recession*
Advisor: Dr. Laura K. Lautz

GRANTS

2021 **CUAHSI Hydroinformatics Innovation Fellowship** Annual Water Temperature Signal Analysis for Evaluating Groundwater Contributions to Streams Across Scales: Web Application. Web Product: <https://cuahsi.shinyapps.io/pasta/>

SELECT PUBLICATIONS

1. **Hare, DK**, AM Helton, CS Cummins, PM Bumpers, NJ Tomczyk, PA Rogers, SJ Wenger, ER Hotchkiss, AD Rosemond, JP Benstead (2024) Leaf litter breakdown phenology in headwater stream networks is modulated by groundwater thermal regimes and litter type. *Limnology and Oceanography Letters*. <https://doi.org/10.1002/lol2.10423>
2. **Hare, DK**, AM Helton, ZC Johnson, JW Lane, and MA Briggs (2021) Continental-scale analysis of shallow and deep groundwater contributions to streams. *Nature Communications* 12, 1450. <https://doi.org/10.1038/s41467-021-21651-0>
3. **Hare, DK**, AM Helton, ZC Johnson, JW Lane, and MA Briggs (2021) Continental-scale analysis of shallow and deep groundwater contributions to streams. *Nature Communications* 12, 1450. <https://doi.org/10.1038/s41467-021-21651-0>
4. Harvey, MC, **DK Hare**, A Hackman, G Davenport, AB Haynes, A Helton, JW Lane, MA Briggs (2019). Evaluation of Stream and Wetland Restoration Using UAS-Based Thermal Infrared Mapping. *Water*, 11(1568). <https://doi.org/10.3390/w11081568>
5. Briggs, MA, **DK Hare** (2018). Explicit consideration of preferential groundwater discharges as surface water ecosystem control points. *Hydrological Processes*, 32(15), 2435–2440. <https://doi.org/10.1002/hyp.13178>
6. **Hare, DK**, DF Boutt, WP Clement, CE Hatch, G Davenport, A Hackman (2017) Hydrogeological controls on spatial patterns of groundwater discharge in peatlands, *Hydrology and Earth System Science*. <https://doi.org/10.5194/hess-2017-282>.
7. **Hare, DK**, MA Briggs, DO Rosenberry, DF Boutt, JW Lane (2015), A comparison of thermal infrared to fiber-optic distributed temperature sensing for evaluation of groundwater discharge to surface water, *Journal of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2015.09.059>.
8. Briggs, MA, LK Lautz, **DK Hare** and RA Gonzalez (2013) Relating hyporheic fluxes, residence times, and redox-sensitive biogeochemical processes upstream of beaver dams, *Freshwater Science* 32 (2), <https://doi.org/10.1899/12-110.1>.

RESEARCH AND WORK EXPERIENCE

- 2023 - **Postdoctoral Fellow**
Cary Institute of Ecosystem Studies
- 2021 - 2023 **Graduate Research Assistant**
Project: Can Watershed Land Use Legacies Inform Nitrogen Management?
University of Connecticut, Storrs, CT
- 2018 – 2022 **Graduate Research Assistant**
Project: Carbon Response to Experimental Warming
University of Connecticut, Storrs, CT
- 2014 – 2019 **Environmental Scientist/Hydrogeologist**
Remediation Division
AECOM Technical Services, Rocky Hill CT
- 2012 – 2014 **Graduate Research Assistant**
Project: Tidmarsh Farms Wetland Restoration & Tobago Freshwater Resource Evaluation
University of Massachusetts, Amherst, MA

HONORS AND AWARDS

- 2022 **Graduate Student Research and Creativity Award**
College of Agriculture, Health, and Natural Resources
University of Connecticut
- 2021 **Outstanding Graduate Student Award**
Department of Natural Resources and the Environment
University of Connecticut
- 2021 **Graduate School Conference Participation Award**
University of Connecticut
- 2020 **Student Travel Grant**
American Geophysical Union
- 2014 **Outstanding Teaching Assistant**
Department of Geosciences
University of Massachusetts, Amherst
- 2011 **Norma Slepecky Undergraduate Research**
Women in Science and Engineering
Syracuse University
- 2011 **Fay M. Merriam Award- Professional Promise**
Department of Earth Sciences
Syracuse University

MEDIA

The Conversation US. [Your favorite fishing stream may be at high risk from climate change – here's how to tell.](#) March 4, 2021.

UConn Today [Groundwater Information is No Longer Out of Depth](#) March 4th, 2021

TEACHING EXPERIENCE

Instructor of Record

- 2019 Stream Ecology (NRE 3205)
Summer Session II
University of Connecticut

Teaching Assistantships

- 2019 Natural Resources Measurements (NRE 2010)
University of Connecticut
- 2012 – 2014 Groundwater Geology Teaching Assistant (GEOG 227)
Mount Holyoke University

- 2012 – 2014 Hydrogeology Teaching Assistant (GEO 587)
University of Massachusetts, Amherst, MA
- 2014 Global Environment Change Teaching Assistant (GEO 110)
University of Massachusetts, Amherst, MA
- 2014 Global Environment Change Teaching Assistant (GEO 110)
University of Massachusetts, Amherst, MA
- 2012 – 2014 The Earth Lab Coordinator and Lab Instructor (GEO 101)
University of Massachusetts, Amherst, MA

MENTORING EXPERIENCE

- 2022 – 2024 Advanced Research Mentorship (3 students)
Glastonbury High School
2023 Outstanding Mentor Award
- 2024 Environmental Informatics Capstone Course.
Virginia Tech (Lead Collaborator)
Final app: <https://vt-eds.shinyapps.io/S24-EDS-StreamTemp/>

WORKSHOPS & EXPERIENCE

- 2024 LTER Entering Mentoring Workshop
- 2022 River Field Studies Leadership (2024)
2022 River Field Instructor Professional Development Cohort
[River Field Studies Network](#)
- 2019 Fundamentals of Ecosystem Ecology
Cary Institute of Ecosystem Studies
- 2015 – 2018 Vice President
Engineers Without Borders: Hartford Professional Chapter
- 2013 – USGS Volunteer for Science
Branch of Geophysics, Department of Groundwater
United States Geological Survey
- 2016 Managing PCB Impacted Building Materials
Connecticut Chapter Program: Environmental Business Council
- 2015 Scientific Sensing using Unmanned Aircraft Systems
AirCTEMP's short-course: Center for Transformative Environmental Monitoring Programs
- 2013 Gordon Research Conference—Andover, NH
Catchment Science: Interactions of Hydrology, Biology & Geochemistry

PEER REVIEW SERVICE

Hydrologic Processes
Journal of Hydrology
Journal of Geophysical Research
Nature- Water
Water Resources Research

PROFESSIONAL MEMBERSHIPS

2024 - The Ecological Society of America
2022 - Association for the Sciences of Limnology and Oceanography
2021 – River Management Society
2014 – Society of Freshwater Science
2010 – Geologic Society of America
2010 – American Geophysical Union

TECHNICAL SKILLS

Programming/Modeling

Python, R, RShiny, MATLAB, ArcGIS, QGIS, MODFLOW, GMS, AQTESOLV, Comsol
Multiphysics Modeling, Sigmaplot, Microsoft Office Suite, Adobe Creative Suite

Field Skills

Well slug and pump tests, surveying, GPS, stream gauging, water quality field instrumentation, low-flow sampling, pore water sampling, electrical resistivity, ground penetrating radar, fiber-optic distributed temperature sensing, infrared surveys (handheld and unmanned aircraft systems experience), thermal profiles, sediment coring and description

Laboratory Skills

Water standard preparations, water isotopes Picarro L2130-*i* Analyzer, sediment analysis