

# Ashley R. Alred

alreda@caryinstitute.org | 706-936-8979

## EDUCATION

**University of Georgia:** Warnell School of Forestry and Natural Resources

B.S. Natural Resource Sciences: Fisheries & Wildlife Biology and Natural Resources Recreation & Tourism; Minor in Spanish, May 2012

**University of Nebraska-Lincoln:** School of Natural Resources

M.S. Natural Resource Sciences: Science Literacy Research, December 2016

## TEACHING

2020-Present Education Program Leader at Cary Institute of Ecosystem Studies, Millbrook, NY

2018-2020 Environmental Educator at Urban Ecology Center, Milwaukee, WI

2016-2018 Natural Sciences Educator for STEM Grant Program, Lincoln, NE

2014-2016 Graduate Teaching Assistant at University of Nebraska-Lincoln, Lincoln, NE

Course: *Introduction to Agricultural and Natural Resource Systems*

2015 Graduate Teaching Assistant at UNL for Puerto Rico Study Abroad, Lincoln, NE

Course: *Tropical Island Ecosystems: Puerto Rico Study Tour*

2012-2014 Environmental Educator at Rock Eagle 4-H Center, Eatonton, GA

2013 Summer Naturalist at Catalina Island Conservancy, Santa Catalina Island, CA

2012 Assistant Naturalist at Highlands Nature Center, Highlands, NC

## MENTORING & MANAGEMENT

2020-present Mentor education assistants, interns, & volunteers at Cary Institute, Millbrook, NY

2022-present Manage and teach ecology summer camps at Cary Institute

2021-2022 Coordinated the Hudson Data Jam Competition at Cary Institute

2021 Coordinated the Mid-Hudson Young Environmental Scientists Program at Cary Institute

2020-2021 Summer virtual camp programming at Cary Institute, Millbrook, NY

2019 Summer Interns at Urban Ecology Center, Milwaukee, WI

2019 Undergraduate student researchers at University of Nebraska-Lincoln, Lincoln, NE

2015-2018 School of Natural Resources GSA president, Lincoln, NE

2015 Undergraduate mentorship at Warnell School of Natural Resources, Athens, GA

2014-2018 Undergraduate mentorship at University of Nebraska-Lincoln, Lincoln, NE

## RESEARCH

2016-2020 Research Associate at University of Nebraska-Lincoln, Lincoln, NE

2014-2016 Graduate Research Assistant at University of Nebraska-Lincoln, Lincoln, NE

## Publications

**Alred, A. R.** Dauer & Dauer, J.M. & (2020). Understanding factors related to undergraduate student decision-making about a complex socio-scientific issue: mountain lion management. *Eurasia Journal of Mathematics, Science and Technology Education*, 16(2).

**Alred, A. R.**, Doherty, J. H., Hartley, L. M., Harris, C. B., & Dauer, J. M. (2019). Exploring student ideas about biological variation. *International Journal of Science Education*, 41(12), 1682-1700.

Sommers, A.S., White, H., **Alred, A.R.**, Dauer, J., & Forbes, C. (In Press). Teaching styles and student outcomes in undergraduate food, energy, and water systems (FEWS) courses. *North American Colleges and Teachers of Agriculture Journal*.

Sorensen, A., **Alred, A.R.**, Fontaine, J., & Dauer, J. M. (Under Review). Case Study of a Model based Instructional Approach in a Course-Based Undergraduate Research Experience (CURE). *CBE—Life Sciences Education*.

Sabel, J. L., Vo, T., **Alred, A.R.**, Dauer, J. M., & Forbes, C. T. (2017). Undergraduate students' scientifically informed decision-making about socio-hydrological Issues. *Journal of College Science Teaching*, 46(6), 71.

## Posters & Presentations

**Alred, A.** (2023, January 26). *Inclusive summer research with young scientists* [Virtual presentation]. New York Department of Environmental Conservation's Women Speaker Series – Virtual, United States.

**Alred, A.** (2021, October 19). *Creatively engaging students in local climate science: Hudson Data Jam* [Virtual presentation]. Hudson Valley Climate Solutions Week, New York - Virtual, United States.

**Alred, A.**, & Berkowitz, A. (2021, October 8). *High school summer field research experiences in virtual and in-person settings: Building environmental science skills and collaborative relationships* [Poster session]. NAAEE 2021 Conference, Virtual, United States.

**Alred, A.** (2021, April 14). *Promoting data literacy and science engagement through creative communication* [Virtual presentation]. Center for Sustainability & Climate Education Spring Summit, New York - Virtual, United States.

**Alred, A.R.** & Dauer, J.M. (2016). Exploring how values influence undergraduate informal and formal decision-making about a wildlife conservation issue: *The Society for the Advancement of Biology Education Research (SABER) Conference*. Minneapolis: MN.

**Alred, A.R.** Hartley, L. M., Doherty, J.H., Harris, C.B., & Dauer, J.M. (2015). Biodiversity literacy—Using learning progression frameworks for community ecology and evolution to explore student explanations of species conservation over broad bands of time. *The Ecological Society of America (ESA) Conference*. Baltimore, MD and *The SABER Conference*. Minneapolis: MN.

### **Informal Writing**

**Alred, A. R.** (2019, October 23). Insect collecting on the prairie [Blog post]. Retrieved from <https://urbanecologycenter.org/item/1242-insect-collecting-on-the-prairie.html>

**Alred, A. R.** (2017, Winter). Instilling a sense of wonder, one fourth grader at a time. *The Prairie Sage*, p. 3. Retrieved from [https://springcreek.audubon.org/sites/default/files/static\\_pages/attachments/prairie\\_sage\\_-\\_dec\\_2017.pdf](https://springcreek.audubon.org/sites/default/files/static_pages/attachments/prairie_sage_-_dec_2017.pdf)

### **RELEVANT COURSEWORK**

**University of Georgia (BS):** Ecology, Field Animal Behavior, Undergraduate Research Biology, Renewable Resources Policy, Environmental Interpretation, Vertebrate Natural History, Herpetology, Forest Health, Wildlife Techniques, Field Measurements, Soils & Hydrology, Public Speaking

**University of Nebraska-Lincoln (MS):** Writing Science, Predator Ecology, STEM Education Seminar, Evidence-based Teaching Methods for the Post-Secondary Classroom, Qualitative Approaches to Research Methods in Education, Seminar in Qualitative Research

### **Grants & Awards**

- 2023 Hudson River Estuary Program (HREP) for *Mid-Hudson Young Environmental Scientists (MH-YES) Program*, \$75,000.
- 2023 Dutchess County Learn, Play, Create Initiative. *School Yard Art+Ecology Material Kits*, \$5700.
- 2022 Berkshire Taconic Community Foundation; Quest: The Webutuck Quest for Excellence Fund. *Multi-year Educational Partnership Between Webutuck CSD and Cary Institute of Ecosystem Studies*, \$1400.
- 2023 Dyson Foundation. *Cary Institute Summer Ecology Camp Scholarships 2023 – 2024*, \$10,000.

**PROFESSIONAL MEMBERSHIPS**

North American Association for Environmental Education (NAAEE)

New York State Outdoor Education Association (NYSOEA)

Environmental Education Advisory Council (EEAC) of New York City

Society for the Advancement of Biology Education Research (SABER)

**COMMUNITY ENGAGEMENT**

Dutchess County Libraries, *Volunteer*

Dutchess Land Conservancy, *Volunteer*

Fall Kill Watershed Coalition, *Member*