

# Anne Katherine Carlile

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## EDUCATION

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**University of Utah (School of Biological Sciences)**, Salt Lake City, UT

Present

*PhD: Ecology, Evolution, and Organismal Biology*

**Awards:**

- **Global Climate & Sustainability Center Fellowship** Fall 2023 – Spring 2024

**Trinity College\***, Hartford, CT

*Bachelor of Science: Environmental Science*

May 2020

\*Includes a semester abroad with the School for Field Studies, Australia

**Awards:**

- **American Chemical Society Environmental Chemistry Award** Spring 2020
- **Environmental Science President's Fellow** Fall 2019
- **Honor's Research** Fall 2019, Spring 2020
- **Faculty Honors** All Semesters
- **Catalyst Leadership Corps** Fall 2016 - Spring 2017

**Stansbury High School**, Erda, UT

*Honors Diploma*

May 2016

## RESEARCH & TEACHING EXPERIENCE

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**Factors of Winter-Dormancy on GPP**, University of Utah, UT (Present)

*Research Assistant – David Bowling & The National Science Foundation*

- Poster presentation at 2024 AmeriFlux Annual Meeting - *Seasonal variation in the light response of NEE as an indication of photosynthetic dormancy: Exploring a GPP artifact that arises from standardized ONEFLUX processing*

**Teaching Assistant (Climate Change and Ecology)**, University of Utah, UT (Fall 2023)

- Responsible for preparing and delivering lectures, assignment and exam grading, and writing workshopping.

**Magnetic Properties of Glacial Soil Profiles Research**, Trinity College, CT (Fall 2019 – Spring 2020)

*Student Researcher – Christoph Geiss*

- Learned to use and analyze the results of a magnetometer and pulse magnetizer.
- Conducted several field work excursions to gain skills of soil profile analysis and documentation.

**Teaching Assistant (Methods of Environmental Science)**, Trinity College, CT (Fall 2019)

- Assisted students in the preparation, structuring, and execution of a semester-long research project. Projects were centered around water quality and riparian structures in an urban stream.

**Rainforest Natural Resource Management Research**, School for Field Studies, Australia (Spring 2019)

*Student Researcher – Catherine Pohlman*

- Studied the reaction and transformation of the ecotone between rainforest and savanna in Northern Queensland after fire events.
- Gained skills in obtaining tree cores, identifying tree species, and estimating ages of multiple tree species.
- Identified grass biomass and its relationship to rainforest growth and recovery in an area.

**Galapagos Islands Ecology Research**, The Galapagos Islands, Ecuador (Summer 2018)

*Student Researcher – Ecology Project International*

- Teamed with the Galapagos National Park to tag and track tortoises to analyze how climate change and urbanization influences their population.

- Mapped the ecological movement of invasive species and worked to eradicate them.

## **EMPLOYMENT**

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**BioFire/BioMérieux Diagnostics**, Salt Lake City, UT (Spring 2022 – Fall 2023)

*IVDR Research Associate II*

- Responsible for performance assessment and validation of molecular in vitro diagnostics.
- Independent and collaborative support of FDA & other regulatory submissions.
- Skilled in complex calculations and laboratory techniques that include solution formulation, dilution, microbial culture and enumeration, nucleic acid extraction, real-time and digital PCR and sequencing, as well as graphing data, statistical analyses, and primer/sequence evaluation.
- Tasked with all associated data collection, laboratory maintenance, analysis, verification, and record keeping.

**Myriad Genetics**, Salt Lake City, UT (Spring 2021 – Spring 2022)

*Genetic Sequencing Laboratory Technician*

- Collaborated with a team to organize and prioritize multiple patient batches to optimize laboratory testing capacity and assess breast cancer predisposition.
- Trained to handle and prepare a variety of reagents and participate in company quality control.

**ARUP Laboratories**, Salt Lake City, UT (Summer 2020 – Spring 2021)

*Molecular and Infectious Disease Technician II*

- Assisted a team to organize the workflow of up to 1,000 individual COVID-19 specimens daily for testing throughout the laboratory.
- Gained Good Laboratory Practice skills, approved company SOP's, and performed quality control tests.

**Trinity College Raether Library**, Trinity College, CT (Spring 2018 – Spring 2020)

*Student Librarian and Information Services Consultant*

- Learned efficient computer and sorting skills to maintain a functioning internal system within the larger library community.
- Gained quick-thinking and problem-solving Information & Technology (IT) skills to achieve excellent customer and management gratification.

**Hartford Climate Stewardship Council**, Hartford City Hall, CT (Spring 2017)

*Intern*

- Researched and proposed Hartford City Plastic Bag Ban
- Organizer for Solarize Hartford – Political campaign to bring subsidized solar panels to urban residents.