

Alexandra (Ally) Detre
She/Her/Hers
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EDUCATION

Colorado State University, Fort Collins, Colorado
MSc, Geosciences

August 2023- Present

Wesleyan University, Middletown, Connecticut May 2022
BA, Earth & Environmental Sciences (honors), Environmental Studies, minor in Religion

- GPA: 3.69/4.00

RESEARCH EXPERIENCE

Research Assistant (MS), Colorado State University
Fort Collins, Colorado

August 2023-Present

- Research focuses on evaluating changes in seasonal snowpack in the western United States by utilizing in-situ measurements and remote sensing methodologies
- Collaborating with other members of the Cryospheric Sciences research group at CSU on processing and synthesizing ground penetrating radar (GPR) surveys from the NASA SnowEx 2023 Alaska campaign

Research Assistant (BA), Wesleyan University
Middletown, Connecticut

August 2020-June 2022

- Conducted vegetation cover and indicator species analyses and research using remote sensing, R, ArcGIS, and QGIS to investigate temporal changes in riparian plant community composition on the Rio Grande
- Research and analyses culminated in an honors thesis in the department of Earth & Environmental Sciences

TEACHING EXPERIENCE

Graduate Teaching Assistant, Colorado State University
Fort Collins, Colorado

August 2023-Present

- Graded assignments and provided constructive feedback to undergraduate students enrolled in the four introductory geology courses
- Organized weekly help hours for content-related questions and administered exams

Peer Tutor, Dean's Tutoring Program, Wesleyan University
Middletown, Connecticut

January 2021-June 2022

- Coordinated tutoring sessions with students enrolled in Introduction to GIS
- Collaborated with students to find solutions and familiarize themselves with ArcGIS Pro, ArcGIS Online, and StoryMaps

RELEVANT WORK EXPERIENCE

Course Assistant, Wesleyan University
Middletown, Connecticut

January 2021-June 2022

- Evaluated and graded assignments, provided constructive feedback to students enrolled in Introduction to Geospatial Data Visualization
- Facilitated help sessions with students weekly and by appointment

GIS Intern, National Park Service
Big Bend National Park, Texas

May 2021-August 2021

- Organized and updated geospatial data based on new National Park standards using ArcGIS Pro
- Collected field data for park boundaries and areas of interest, and digitized GPS data for National Park use

Volunteer Coach, Hockey in New Jersey
Newark, New Jersey

March 2019-March 2020

- Led in the instruction of developing hockey skills on and off the ice
- Responsible for leading team building exercises, player safety, checking in players, and communicating with parents and guardians

HONORS AND GRANTS

August 2019-May 2022

- 2022
 - **Mary and John Sease Prize**, Wesleyan University
 - **Honors in the Earth & Environmental Sciences Major**, Wesleyan University
 - **ACHA All-American Scholar**, Wesleyan University
- 2021
 - **College of the Environment Summer Research Grant, \$4,400**, Wesleyan University

PRESENTATIONS

GeoSlam, Colorado State University, Fort Collins, Colorado, November 2023. Bonnell, R; **Detre, A.** “Evaluating the Feasibility of Ground-Penetrating Radar for Snow Parameter Retrievals in the Boreal Forest, Interior Alaska” (lecture)

E&ES385: Remote Sensing Research Final Presentations, Wesleyan University, Middletown, Connecticut, May 2022. **Detre, A.** “The Remote Sensing of Eutrophication on Georges Pond From 2013-2016” (lecture)

Stearns Colloquium Series, Earth & Environmental Sciences Senior Thesis Presentation, Wesleyan University, Middletown, Connecticut, April 2022. **Detre, A.** “The Rolling Riparian

Review: Evaluating the Riparian Plant Community Composition in the Big Bend Reach of the Rio Grande/Bravo” (lecture)

Earth & Environmental Sciences Department Colloquium, Senior Seminar Research Projects, Wesleyan University, Middletown, Connecticut, March 2022. **Detre, A;** Parikh, A.; Thurmond, A. “Shedding Light on Night Sky Brightness at Connecticut Universities” (lecture)

E&ES223: Structural Geology Research Final Presentations, Wesleyan University, Middletown, Connecticut, December 2021. **Detre, A.** “The Geologic History of El Solitario” (poster)

E&ES280: GIS Service-Learning Presentations, Wesleyan University Sustainability Office, Middletown, Connecticut, December 2020. **Detre, A;** Fish, H; Hawthorne, S; Silverman-Lloyd, C. “Ranked Site Suitability for Solar Power Installation in Middletown, Connecticut” (lecture)

MEMBERSHIP

Member, Geological Society of America (2021-Present)

SKILLS

Technical: ArcGIS Pro and ESRI Products, QGIS, ENVI, R Statistical Language, Microsoft Office Suite, Adobe Photoshop, Field Mapping (geologic), Python, Google Earth Engine, GPR processing using ReflexW

Language: Spanish (basic proficiency, verbal and written)