

Andrea Clement

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SUMMARY

Fisheries and wildlife scientist with 5 years of experience and 500+ field and backpacking days. Proficient in GIS and data analysis. Research interests include wildlife conservation genetics, dispersal, and microbiomes. Aims to combat declines in North American biodiversity.

EDUCATION

B.A. Double Major: Evolutionary Biology & Ecology, Geography 2020

University of Colorado – Boulder | *summa cum laude* | GPA: 3.96

- **Senior Thesis:** Assessing Gendered Climate Related Vulnerabilities in Community Based Conservation Areas of Southern Sub-Saharan Africa. *Defended 4/10/2020*
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CERTIFICATES

Wildlife Capture and Chemical Immobilization – *Center for Wildlife Studies* 2024

Bioinformatics Analysis for Conservation Genomics – *Smithsonian-Mason SoC* 2024

Adult and Pediatric First Aid/CPR/AED– *American Red Cross* 2009, 2021, 2023

North Pacific Groundfish Observer – *National Oceanic and Atmospheric Administration* 2021

Fundamentals of GIS – *Front Range Community College* 2018

EXPERIENCE

Biological Science Technician – National Park Service (NPS) 05/2024 – Present

Glen Canyon National Recreation Area – Science and Resource Mgmt., Aquatic Invasive Species

Yellowstone National Park – Resource Management, Fisheries and Aquatic Invasive Species

- Physically inspected vessels of varying complexity for evidence of invasive species.
- Sampled freshwater fish and amphibian community composition through electrofishing, dip/block/trap netting, length/weight/sex data, PIT/Floy tags, and eDNA collection.
- Assisted wolf, bear, bison, and bird crews in setting/retrieving/reviewing trail cameras, documenting wildlife behavior, monitoring visitors, and building study exclosures.

Fisheries Biologist/Environmental Scientist – AIS Inc. 08/2021 – 03/2024

National Oceanic and Atmospheric Administration (NOAA) North Pacific Observer Program

- Independently designed and executed hundreds of sample plans over 245+ field days in remote coastal Alaska to directly inform federal fishery management decisions.
- Identified thousands of fish, birds, and marine mammals to species level.
- Collected data including community composition, coordinates, weight, length, sex, tissue/bone samples, whole specimen, stomachs, eDNA, photos, and daily observations.
- Contributed to a variety of side projects, including designing training materials and processing over 2,000 aerial photos for environmental impact assessments.

Research Technician – University of Colorado, Boulder 05/2019 – 5/2021
Canyonlands Research Center Restoration Project, Rocky Mountain Biological Laboratory, Niwot Long Term Ecological Research, Kavango Vulnerability and Adaption (KAZAVA) Team

- Conducted vegetation surveys on native and invasive plant community composition, soil quality, and canopy gap following USGS protocols for 50+ days across 3 field seasons.
- Designed and executed a GIS component to collect and associate 100+ spatial data points, troubleshoot and correct GPS equipment, and post-process spatial data.
- Updated multiple databases, performed statistical analysis with R-studio, produced maps and data visuals, and presented findings to wider team and general audiences.
- Tested 1000+ soil samples for chlorophyll A content in wet lab with a spectrometer.

VOLUNTEER & LEADERSHIP POSITIONS

Aquatic Invasive Species Shift Lead – National Park Service	2024
Wild Animal Caretaker – Greenwood Wildlife Rehabilitation Center, Lyons, CO	2021
Exhibit Ambassador – The Butterfly Pavilion, Westminster, CO	2021
Assistant General Manager – Under the Sun Pizzeria, Boulder, CO	2017-2021
Permaculture Farm Lead – Himalayan Farm Project, Do Goan, India	2016

PUBLICATIONS & PRESENTATIONS

- Benefield, A. et al. (2020, January 1). *SARS-CoV-2 viral load peaks prior to symptom onset: a systematic review and individual-pooled analysis of coronavirus viral load from 66 studies*. <https://www.medrxiv.org/content/10.1101/2020.09.28.20202028v1>
 - Clement, A., & Carscadden, K. (2019, August 22). *Mapping environmental conditions underlying phenology of hybridizing Potentilla*. Boulder, CO; Niwot Ecological Long Term Research Poster Presentation Symposium, University of Colorado - Boulder.
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AWARDS & ACCOMPLISHMENTS

National Park Service STAR Award	2024
AIS Inc. North Pacific Observer of the Month	2024
International Fisheries Monitoring Conference Delegate (Tasmania, Australia)	2023
Featured Fisheries Biologist – Regional NOAA Fisheries Management Newsletter	2023
Undergraduate Scholarships – CO Merit, First Bank, P.E.O. Foundation	2016-2020
Undergraduate Research Opportunity Project (UROP) Grant	2019
Appalachian Trail Thru-Hike Award of Completion	2014

SKILLS

GIS – GPS Handhelds, ArcGIS, ESRI, QGIS, ENVI, Cartography, Post Processing, Remote Sensing
Lab – PCR, Microscopy, Spectrometry, Chemical Handling, Dissection, Inventorying
Field – Wildlife Immobilization and Handling, Species Identification, Specimen Collection
Tech – R-Studio, SQL, UNIX, Microsoft Suite, Troubleshooting, Database Management
Other – Outdoor Proficiency, Grant and Technical Writing, Photography, Graphic Design