

Elizabeth L. Davis

eldavis3@vt.edu | 434-989-7818

PERMANENT ADDRESS:

Crozet, VA, 22932

SCHOOL ADDRESS:

Blacksburg Va, 24060

EDUCATION

B.S. Geosciences with a Geobiology Focus and a minor in Biology, expected graduation May 2024 from Virginia Tech.

- GPA of 3.64

- Academic Dean's list Fall 2020-present

LAB EXPERIENCE

Paleobiology Lab, Blacksburg, Va- Volunteer

September 2022 - Present

Project Objective – How angles of fish jaws are related to changing environments.

- Experience in building data sets
- Demonstration of proficiency in Excel

Conservation Physiology and Wildlife Ecotoxicology Lab, Blacksburg, Va – Lab Assistant - January 2021 – PRESENT

Project Objective: Assessing the influence of hemoflagellate protozoan parasites on the red blood cell physiology in Eastern Hellbenders.

January 2022 – PRESENT

- Using microscopes to count and note the morphology of parasites in blood samples.

Project Objective: Monitoring Eastern Hellbender parental care behaviors in different dissolved oxygen concentrations.

January 2021 - PRESENT

- Analyze videos with the ELAN program to create segments of video capturing different parental behaviors to compare between the controls and changed environments.
- Participated in group lab meetings analyzing and discussing published research about the parental behaviors of Eastern Hellbender Salamanders (January - May 2021).

Project Objective: Hellbender larval processing in search of patterns in larval hatching and survival.

Fall 2021

- Practiced in the use of scales, calipers, microscopes, forceps, and scalpels for data collection
- Euthanasia of larval Hellbenders before measuring, weighing, and taking DNA samples

National Oceanic and Atmospheric Administration (NOAA) Southeast Fishery Independent Survey (SEFIS) Research Cruise-Volunteer - June 13-23, 2022

Independent survey led by Dr. Nate Bacheler focused on sampling population dynamics of Snapper and Grouper species off the coast of Georgia and Florida.

- Worked on NOAA research vessel, baiting, deploying, and retrieving chevron fish traps.
- Sampled DNA of various fish species.
- Deployed Conductivity, Temperature, and Depth (CTD) Operations.
- Dissected various Snapper and Grouper species, and Triggerfish to harvest otoliths and reproductive organs.

CERTIFICATIONS

- Laboratory safety trainings through Virginia Tech Environmental Health and Safety, *Fall 2020 - present*
- IACUC Animal Handling Safety, *expires August 2024*
- CITI Training, *expires Dec. 2024*
- SCUBA Nitrox, *May 2022*
- SCUBA Open Water, *June 2021*
- United States Pony Club (USPC) C-3, H-B, *June 2020*

ACTIVITIES

- Chesapeake Bay Foundation clean water captain, *Spring 2022- Present*
- Member of the National Society of Leadership and Success, *Spring 2022- present*
- Geology Club *Spring 2022- present*
- Running Club, *Fall 2021- present*
- SCUBA Diving, ~50 logged dives, *June 2021- present*
- National Championships in horseback riding, high point Thoroughbred in Show Jumping, *July 2021*
- Published Author, *Nov. 2017*
 - Self-published in high school, approx. 365 pages long, 4-year process of editing and resubmissions
- Mentor and teacher of youths in equine studies USPC, *2014 - present*
- Nationally rated member of the USPC (C-3, H-B), *2014- present*

