

KATE LOCHRIDGE

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1028 East Maple Street, North Canton, Ohio 44720

Education:

University of Alaska Southeast Dive Semester

- Occupational Endorsement in Cold-Water Scientific Diving
- Anticipated graduation May 2, 2025
- AAUS scientific diving, dry suit diving, small boat operation, cold water rescue, outboard motor maintenance

Bowling Green State University

- B.S. in Biology and B.F.A. in Studio Art
- August 2019- April 2023
- 4.0 GPA; Honors: Summa Cum Laude, University Honors, Presidential Award, Phi Beta Kappa
- Limnology, marine biology, ichthyology, aquarium husbandry, sculpture, and painting

Work Experience

Aquarist/Dive Tender

August 2024 - January 2025

Provided professional aquarium services and maintenance to live exhibits. Maintained and developed a stronger understanding of life support systems. Ensured systems were healthy, clean, and attractive to viewers. Monitored water quality with YSI meters, multiparameter colorimeters, and salinity probes. Ensured a safe environment for myself, other scuba divers, and animals while the aquarium was cleaned. Responded to emergencies and gear malfunctions.

Telecommunications Ground Crew for ML Telecom Services

September 2024 - January 2025

While prioritizing a safe working environment and communication among team members, installed and repaired cell phone towers. Used manual and power tools, including sawzaws, impact drivers, and wrenches to efficiently construct and replace required structures.

Substitute Teacher

September 2024 - January 2025

Provided quality education and a safe learning space for students while teachers were out. Managed student expectations and behavior. Maintained records for returning teachers. Prevented and addressed medical emergencies.

Environmental Educator at Forfar Field Station

October 2023 - August 2024

Led excursions into local ecosystems and settlements on Andros Island in the Bahamas, provided nature talks, and acted as a steward for conservation. Lived and worked in a remote, communal setting to maintain safe, educational, and fun experiences for groups. Acted as a lead naturalist on a sea kayaking and camping trip across the Exumas. Designed and taught a week-long artistic observation course that translated scientific phenomena into the visual languages of drawing, painting, and photography.

Artist Assistant and Archivist

May 2023 - September 2023

Collected, recorded, and tracked thousands of artwork, files, and resources for Mr. Chin. Packed, labelled, and shipped artwork to museums and collectors. Repaired and replaced components of "Wake" for its installation in Atlanta, GA. Used sawmills, wood kilns, power tools, and basic construction and woodworking techniques. Worked as a member of a team directed by Mr. Chin.

Volunteer Diver at the Toledo Zoo and Aquarium

August 2022 - May 2023

Worked as part of a team to ensure diver and animal safety while scuba diving in exhibits as large as 90,000 gallons and as small as 27,000 gallons. Maintained optimal environments for aquarium animals and educated visitors about the Toledo Zoo's mission. Practiced safe diving in close quarters with blacktip reef sharks, spotted eagle rays, an injured green sea turtle, tropical reef fishes, and various marine invertebrates.

Ernest F. Hollings Scholar Internship

June 2021 - May 2023

Worked with scientists to create seventeen paintings and an observational sketchbook that illustrated the effects of sea level change on south central Alaska. Created new spaces for scientific communication concerning sea level change, including free open gallery nights.

Provided access to up-to-date science to help people make decisions concerning long-term city planning, housing, and conservation efforts related to sea level change.

Undergraduate Research Assistant for Dr. Chris Ward

May 2020 - May 2023

Worked independently and as a team on a collaborative project with scientists from around the US to assess the effects of epifaunal biofouling on *Macrocystis pyrifera* for aquaculture and biofuel purposes. Used R, Google Drive, and Microsoft Office to perform image analysis and multivariate statistical analysis on 1688 specimens. Collected phytoplankton samples, maintained cultures, and analyzed harmful algal bloom samples for monitoring, management, and conservation purposes. Developed a methodology to turn HAB biomass into paint pigment and used it to create 107 paintings and an immersive installation that highlights their causes, effects, and implications.

Undergraduate Research Assistant for Dr. Jeffery Miner

May 2021 - January 2022

Assisted graduate students with data collection and sample processing around Northwest Ohio. Used gill nets, DIDSON sonar, and behavioral patterns to identify fish species in Sandusky Bay. Identified and counted zooplankton with light microscopy. Organized data with Microsoft Excel. Maintained communication between coworkers, graduate students, and professors.

BGSU Marine Lab Volunteer

August 2019 - April 2022

Designed and executed a research study on the effect of flow rate on *Euphyllia ancora* coral growth. Maintained healthy aquariums for corals, epaulette sharks, marine fishes, and invertebrates. Tested and recorded water parameters and seawater chemistry daily. Recognized, recorded, and reported health and behavioral abnormalities.

YMCA Lifeguard, Swim Instructor, and Swim Coach

September 2016 - September 2022

Worked as a member of a team to prevent incidents and react to health emergencies in pools, hot tubs, and saunas. Maintained basic first aid, CPR, and emergency O₂ administration certifications. Taught children basic swimming skills and water safety. Coached competitive swimmers on their techniques while encouraging success and wellbeing.

Girl Scout Camp Counselor

June 2015 - July 2019

Worked as part of a team to ensure the safety and happiness of campers. Taught fire building, archery, canoeing, trailblazing, and basic wilderness skills. Responded to emergencies as needed. Facilitated conflict resolution between campers as needed. Cultivated connections between campers and the surrounding environment.

Training and Certifications

2024 - CAL OSHA 10 Hour Construction
2024 - OSHA Radiofrequency (RF) Safety and Hazard Awareness
2024 - American Red Cross Bloodborne Pathogens
2024 - HSI Basic Life Support, First Aid, and Emergency Oxygen Administration
2023 - SDI Visual Inspection Procedure certification
2023 - HSI Wilderness First Aid
2023 - ACA Level 2 Kayak training
2023 - BoatUS Ohio Boating Safety course
2020 - SDI Rescue Diver SCUBA certification
2017 - PADI Advanced Open Water SCUBA certification
2017 - PADI Open Water SCUBA certification

Awards

2023 - Mayeux Award for Outstanding Honors Project: \$360 monetary grant
2023 - Dr Beth Casey Student Sculpture Award: \$250 monetary grant and publication in BGSU Library's Annual Digital Newsletter
2022 - Center for Undergraduate and Research Studies: \$500 monetary grant
2022 - T. Richard Fisher Biology Scholarship: \$2,000 monetary grant
2021 - Dr Suzanne K Miller-Kolbalka Undergraduate Assistantship in Biological Science: \$550 monetary grant
2021 - National Oceanic and Atmospheric Administration: Ernest F Hollings Internship
2021 - Center for Undergraduate and Research Studies: \$500 monetary grant
2020 - Center for Undergraduate and Research Studies: \$500 monetary grant
2019 - Presidential Scholars Award: Full Tuition scholarship from the Bowling Green State University Honors College
2019 - Girl Scout Gold Award: "An Ounce of Prevention"
2016 - Patent awarded for "Footwear with Sliding Shoe Cap"

Selected Exhibitions and Presentations:

"The HABs and the HAB Not's"

March 18- April 2, 2023; Bowling Green State University BFA Exhibition

"Bringing Visibility to Sea Level Change in Southcentral Alaska"

December 12-16, 2022; American Geophysical Union Fall 2022 Meeting, Chicago, Illinois.

"Bringing Visibility to Sea Level Change in Southcentral Alaska"

August 2, 2022; Homer Council on the Arts, Homer, Alaska.

"Preliminary Disease Risk Assessment in Giant Kelp Aquaculture on the US Pacific Coast"

May 14-20, 2022; Joint Aquatic Sciences Meeting, Grand Rapids, Michigan.

"Present algae-based artwork to Governor Dewine"

April 5, 2022; Bowling Green State University, Bowling Green, Ohio.

“Water Color: Creating Artwork with Algal-Bloom Derived Paints”

December 5, 2020; Bowling Green, Ohio.

Additional Qualifications

- Proficient in Microsoft Office and R
- Competent in a range of aquatic and terrestrial sampling methods
- Experience teaching groups ranging in age from middle school through Master's Students
- Proficient in public speaking and engaging diverse audiences
- Strong interpersonal communication through writing, art, and speaking
- Able to live and work in rugged and isolated conditions
- Can lift and hike with over 50 pounds unassisted
- Strong aptitude for conflict resolution and prevention
- Proficient in maneuvering large vehicles, pulling trailers, and basic vehicle maintenance