

Carly A. D. Osborne

linkedin.com/in/carlyosborne ♦ co89@duke.edu

Education

- Duke University, Durham, NC** May 2019
M.E.M. Water Resource Management Candidate
- Potsdam University, Potsdam, Germany** January 2015
B.Sc. International Field Geosciences
- University of Montana, Missoula, MT** May 2013
B.S. Physical Geography
B.S. International Field Geosciences
G.I.S. Certificate; minor in Mountain Studies

Experience

- Research Assistant** Nicholas School of the Environment, *Durham, NC* Fall 2017 - Current
- Assist in ongoing research under Dr. Avner Vengosh and his Water-Energy Research Group both in the lab and field.
 - Prepare kits for gathering water quality samples from the field; includes acid washing bottles and buffering with various acids.
 - Process alkalinity samples, using acid titrations to determine biocarbonate contents of sample.
 - Processing samples for ICP-MS, thermal ionization mass spectrometer, analysis of RadioNuclides and stable isotopes.
- Field Technician** Whitewater Rescue Institute, *Missoula, MT* Fall 2015 – Summer 2017
- Provided instruction of and implementation of various containment or exclusion methods for spills on inland water ways.
 - Gathered data in the field and created geographical response plans for local rivers for private/public stakeholders.
 - Maintained a safe and professional working environment/site for workers, equipment, and machines utilized during active spills.
 - Provided medical assistance, if needed as well as assisting in teaching medical components in technical rescue courses taught.
- Owner / Operator** C.Osborne Consulting, *Missoula, MT* Spring 2014 – Spring 2017
- Founded private consulting firm to provide specialized geological and geographic thematic maps.
 - Utilized ArcGIS software for all mapping tasks, designed template for process documentation.
 - Created custom maps for local clients based on their specifications and goals, such as proposals or professional presentations.
 - Worked as an independent contractor within the state of Montana and was sub-contracted by private environmental companies.
- National Science Foundation Internship / Field Team EMT** REU, *Yellowstone National Park* Summer 2010 - Spring 2011
- Mapped and researched Precambrian rock outcrops in northern YNP, culminating in a poster presentation at national conference.
 - Collected and processed samples for laboratory analysis in geochemistry and geochronology, for a multi-year collaboration.
 - Determined the pressure and temperature based on metamorphic assemblages found in thin-sections from samples.
 - Multi-year research experience for undergraduates (REU) to determine the origin of the precambrian outcrops found across YNP.
- Entrepreneurial Property Manager** Kerogen Group LLC, *Missoula, MT* Spring 2008 - Current
- Managed house and property as live-in landlord; managing and renting from one to three tenants at a time.
 - Provided yearly, seasonal, and general upkeep of the property and appliances.
 - Negotiated rents, deposits, and leases with tenants as well as managed or facilitated improvements on the property.
 - Recruited and hired a property manager and handy-man to oversee day to day operations.

Published Work

Map, Osborne, Carly: *Gulf of Mexico Bathymetry Map*, [Earth2, 2nd Edition](#), Hendrix & Thompson (2012)

Abstract, Osborne, Carly; Baldwin, Julia; Henry, Darrell; Mogk, David; Mueller, Paul; Foster, David: Evolution of the precambrian rocks of Yellowstone National Park (YNP): Low Pressure Metamorphism of the Jardine metasedimentary Sequence (2011)

Professional Certifications

- Ice Rescue Technician – Whitewater Rescue Institute February 2017
Emergency Management Institute - FEMA: ICS-100, ICS-200, IS-700, & IS-800 February 2016
OSHA 40-hour HAZWOPER Technician January 2016
National Registered Emergency Medical Technician January 2016
Swift Water Rescue Technician – Whitewater Rescue Institute May 2013
GREEN Program - Global Renewable Energy Education Network, *Costa Rica* May 2013

Additional Information

Proficient in: Adobe Suite (Acrobat, Photoshop, Illustrator, Lightroom), Microsoft Office Suite (Excel, Word, PowerPoint, Outlook); beginner programming in Visual Basic; experience in STATA and R statistic software.

Honors: Honkala Outstanding Senior Award– U. Montana (2013); Mortar Board Outstanding Senior for IFG Dual-Degree Program (2013); Mortar Board Honor Society Member (2011); Montana NASA & Watkins Honors College Scholarship awarded grants for thesis work in the field of metamorphic petrology (2010-2011).

Community Engagement: Running coach for Girls on the Run (2018); Ice hockey coach for U14 Girls House Team (2015-2016); Blackfoot River Clean-Up EMT volunteer (2016); Blackfoot River Outfitters Ladies Night volunteer (2016-2017); 3rd generation Philanthropic Education Organization (P.E.O.) sister since 2011.