

## EDUCATION

**Colorado College, Colorado Springs, CO | Major: Organismal Biology and Ecology | GPA: 3.3** **Graduated May 2016**

- Received \$3500 from Summer Internship Grant Funding for oyster aquaculture work at Puget Sound Restoration Fund
- Recipient of \$4000 Grant from Lyddon Foundation to study the effect of forest fire on montane communities
- Relevant Coursework:* Molecular and Cellular Biology, Ecology, Genetics, Biostatistics and Experimental Design, Biology of Microbes, Conservation Biology and Etymology, Human Impacts on Biogeochemical Cycles, Environmental Policy and Watershed Biogeochemistry

**Semester in Environmental Science, Wood's Hole, MA | GPA: 3.3** **Fall 2015**

- Used code to model carbon fluxes between adjacent oysters and seaweed to determine if seaweed can sequester carbon to reduce local ocean acidification
- Worked extensively in groups to assess carbon, nitrogen and phosphorous fluxes between ecosystems
- Completed independent research analyzing the migration of Pharmaceuticals and Personal Care Products (PPCPs) through Cape Cod soils
- Assessed human introduction of nitrogen into local bays using data collected in the field and subsequent laboratory analysis and presented results to local city official
- Relevant Coursework:* Terrestrial Ecosystems, Aquatic Ecosystems, Mathematical Modeling, Science Writing

## WORK AND RESEARCH

**Soil Biogeochemistry Lab of Rebecca Barnes, PhD | Colorado College, Colorado Springs, CO** **Summer 2015**

- Sampled eight streams in watersheds affected by Waldo Canyon and Hayman wildfires
- Developed proficiency in soil extraction, respiration, mass balance experiments as well as alkalinity titrations and nutrient ( $\text{NO}_3$ ,  $\text{PO}_4$ ) presence in stream samples
- Identified macro-invertebrate presence in all eight streams accompanied with Net Ecosystem Production readings
- Co-authored paper submitted and presented at American Geophysical Union, August 2015

**Puget Sound Restoration Fund | Non-profit organization, Bainbridge Island, WA** **Summer 2014**

- Worked in NOAA funded hatcheries for threatened species of Olympia oyster and Pinto Abalone monitoring mortality and creating highly sterilized algae strains for food, in addition to daily maintenance of hatcheries
- Spread 1500  $\text{cm}^3$  of oyster shell across tidelands of Willapa Bay as part of a WA Dept. of Ecology grant to restore native oyster growth

**Futurewise, Lewiston, ME** **Summer 2013**

- Researched case studies of cities successfully increasing equitable resources such as food access, transportation, health services and green spaces and completed a manuscript of recommendations to Shoreline and Tukwila neighborhoods
- Promoted recommendations at community meetings in Tukwila and Shoreline
- Testified at local city council meeting on behalf of Futurewise to support updates of Shoreline Management Act

**Biological Oceanography Department | University of Washington, Seattle, WA** **Summer 2012**

- Assisted PhD candidate Elizabeth Tobin in research
- Prepared water and sediments samples for counts of dinoflagellate *Alexandrium* (primary algae that causes red tide)

## PUBLICATIONS AND PRESENTATIONS

Moreau, W., Conte, M., and JC Weber, 2015. The Effect of Soil Type on Migration of Pharmaceuticals and Personal Care Products (PPCPs) Through Cape Cod Soils. *Semester in Environmental Science*, December 2015.

Barnes, R.T., Buma, B., Wolf, K., Elwood, K., W. Moreau, and M. Kehlenbeck, 2015. After the Burn: Forest Carbon Stocks and Fluxes across fire disturbed landscapes in Colorado, U.S.A. *American Geophysical Union*, December 2015.

## COMPUTER AND LANGUAGE SKILLS

- Microsoft Word, Excel and PowerPoint
- Geographic Information Systems (GIS) - Analyzed Concentrations of 5 pesticides in the San Joaquin and Sacramento River Watersheds between 2013-2014.
- Knowledge of statistical software in Minitab and Excel
- Coding done in text format and transferred to Lazarus for modeling