

# Courtney M. Roush

Northern Arizona University: Ecosystem Science and Society Center (ECOSS)  
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## EDUCATION

**Northern Kentucky University (NKU)**, Highland Heights, KY

Bachelor of Science, May 2016

Double Major: Environmental Science and Biology— GPA: 3.9

Area of emphasis in Ecology/Organismal/Evolution

## WORK EXPERIENCE

**Center for Ohio River Research and Education**, Thomas More College, October 2016- June 2017

Lab technician assisting in the maintenance of the aquatic cultures, life-support systems and water quality testing.

**Ohio River Foundation**, August 2016 – June 2017

- Coordinator for Cooperative Invasive Species Management Areas.
- Coordinator for Mussel Conservation field trips in Lexington, KY.
- Educator on field trips for students in the Greater Cincinnati Area exploring stream systems.

## RESEARCH EXPERIENCE

**Limnological Lake Assessment Research**, September - November 2015

Determined the overall water quality and biodiversity of Melody Lake, KY.

**NKU Coral Reef Diversity Research**, May - November 2015

Conducted Research in South Water Caye, Belize, examining fish species diversity on the Belize Barrier Reef.

**Vegetated Roof Research**, Sanitation District 1 (SD1), Ft. Wright, KY, January - April 2015

Compared the quantity and quality of storm water runoff of a vegetated roof and a non-vegetated roof.

**NKU Crayfish Conservation Research**, Summer 2014

Analyzed Rusty Crayfish (*Orconectes rusticus*) populations for two local streams using mark-recapture to estimate growth and survival.

**NKU STEM Vegetated Roof Research**, Summer 2013.

Evaluated the amount of greenhouse gases being emitted from vegetated roof sites, specifically carbon dioxide, nitrous oxide, and methane.

## PRESENTATIONS

- **Limnological Assessment of an Artificial Kentucky Lake** – *NKU Spring Research Celebration 2016*
- **Patterns in Fish Species by time of day in South Water Caye, Belize** – *NKU Summer Research Celebration 2015, Kentucky Academy of Science 101<sup>st</sup> Annual Meeting*
- **Elucidating why Rusty Crayfish (*Orconectes rusticus*) is a Successful Invasive Species** – *NKU Spring Research Celebration 2015*
- **The Influence of Temperature on Greenhouse Gas Exchange from a Green Roof** – *NKU Spring Research Celebration 2014*
- **Manuscript in preparation: Acosta, Roush, and Seilhamer, Population dynamics of rusty crayfish *Orconectes rusticus* in native habitat with comparisons to invaded habitats.**

## **ACTIVITIES**

***Scuba Diving Enthusiasts Club***, Vice President 2015-2016

***BIOTA Club***, 2015-2016

Taught biology and chemistry to students in grades 2-8 at the Boys and Girls Club.

***Belize Study Abroad***, May 2015

Completed Ecology and Geology of Coral Reefs course as part of this study abroad experience, learning reef field techniques in South Water Caye, Belize.

***NCAA Division I: NKU Women's Basketball Player***, 2012-2016

All-star in the 2016 Jump25.com Ohio All-Star Classic and member of the 2016 Horizon League All-Academic team.

***NKU Latino & ELL Fun with Science Camp***, August 4-8, 2014