

## **Katherine Anne Roach**

Section of Ecology and Evolutionary Biology  
Department of Wildlife and Fisheries Sciences  
Texas A&M University  
College Station, TX 77843 – 2258  
785-766-5592  
roackat@gmail.com

### **EDUCATION**

- 2007 Ph.D. in progress Texas A&M University, Wildlife and Fisheries Biology  
Advisor: Dr. Kirk Winemiller
- 2006 M.A. University of Kansas, Ecology and Evolutionary Biology  
Advisor: Dr. James Thorp
- 2004 B.S. Buena Vista University, Double Major: Biology and Chemistry  
Graduated with honors

### **AWARDS**

- 2008 NSF IGERT Applied Biodiversity Grant, Texas A&M University
- 2007 Clark Hubbs Grant from the Texas Chapter of the American Fisheries Society
- 2007 National Geographic Young Explorer Grant
- 2007 University of Kansas nominee for the Midwestern Association of Graduate Schools Distinguished Master's Thesis Award
- 2007 Regent's Fellowship for PhD study, Texas A&M University
- 2007 Honorable mention for the NSF Graduate Research Fellowship
- 2002 Cumberland Student Development Award for study abroad in Kenya
- 2000-2004 President's Scholarship, Buena Vista University
- 2000 Estelle Siebens School of Science Dean's Fellowship

### **TEACHING EXPERIENCE**

- 2006 *University of Kansas* – Graduate Teaching Assistant for Marine Biology. Assisted with class work and identification of fishes and invertebrates while scuba diving with students in Ambergris Caye, Belize.
- 2005-2006 *University of Kansas* - Graduate Teaching Assistant for Human Physiology Lab. Collaborated on curriculum, developed quizzes, met with students upon request, and graded all lab work.
- 2002-2004 *Buena Vista University* – Undergraduate Teaching Assistant for Botany Lab and Freshman Seminar. Graded all lab assignments, met with students upon request, lectured for Freshman Seminar when professor was unable to attend class.

### **PEER-REVIEWED PUBLICATIONS**

- Roach K.A., J.A. Thorp, and M.D. Delong. 2008. Influence of lateral gradients of hydrologic connectivity on trophic positions of fishes in the Upper Mississippi River. *Freshwater Biology*. In press.

## **MANUSCRIPTS IN REVIEW**

Roach K.A., K.O. Winemiller, C.A. Layman, and S.C. Zeug. 2008. Consistent trophic patterns among fishes in lagoon and channel habitats of a tropical floodplain river: evidence from stable isotopes. *Acta Oecologica*. In review.

## **PRESENTATIONS**

Roach K.A., K.O. Winemiller, S.C. Zeug, and C.A. Layman. 2008. Low isotopic spatial variation in a Neotropical floodplain river. Poster Presentation at the Ecological Integration Symposium, Texas A&M University, TX.

Roach K.A., J.A. Thorp, and M.D. DeLong. 2007. Food web dynamics of fishes in relation to hydrological connectivity gradients in the Upper Mississippi River. Oral Presentation at the North American Benthological Society Meeting, Columbia, SC.

Roach K.A. et al. 2002. Age and sex composition, vegetation preference, and effects of vegetation burning on the distribution of large fauna in Nairobi National Park. Poster Presentation at the Grinnell Symposium for Undergraduate Research, Grinnell, IA.

## **OTHER PROFESSIONAL ACTIVITIES**

2008           Member of the organization committee for the 10<sup>th</sup> Annual Ecological Integration Symposium “Resilience from Genes to Ecosystems” at Texas A&M University

2008           Reviewer for Marine and Coastal Fisheries

2007-2008     Member of the Texas Chapter of the American Fisheries Society

2006-2008     Member of the North American Benthological Society

2006           Treasurer of the Ecology and Evolutionary Biology Graduate Student Organization at the University of Kansas

## **COMMUNITY OUTREACH**

2008           Participant in the Texas Instream Flow Workshop to provide stakeholder input on maintaining a sufficient flow regime in the Brazos River for a healthy environment.

2007-2008     Leader of the fish sampling team for Bio Blitz, a yearly invitation to the public to aid in cataloging all the living organisms in Lick Creek Park, College Station, TX.