

## Jo Ann Banda

Great Lakes Genetic Lab

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### PROFESSIONAL PREPARATION

M.S. Biology, University of Toledo, Toledo, OH

B.S. Environmental Science, Bowling Green State University, Bowling Green, OH

### APPOINTMENTS

2009-2010 National Science Foundation GK-12 Fellow, University of Toledo

2007-2009 Teaching Assistant, University of Toledo

### Research

*Current Master's thesis research*

- Temporal and spatial genetic patterns among Lake Erie walleye spawning groups.
- Laboratory work includes extracting DNA, gel electrophoresis, and amplification using Polymerase Chain Reaction (PCR).

*National Science Foundation - Research Experiences for undergraduates, University of Toledo*

- Temporal patterns of Maumee River spawning walleye.
- Began research that lead to current Master's thesis project.

*Intern Technician, U.S. Geological Survey, Lake Erie Biological Station, Sandusky, OH*

- Conducted independent study: estimating ages of yellow perch of known age using anal and dorsal fin spines, otoliths, and scales.
- In addition to age estimating, performed laboratory work consisting of: examining and identifying the stomach contents of yellow perch; and removing, examining, and identifying the contents of cormorant stomach.
- Also gained valuable field experience: taking water samples, benthic and zooplankton samples, secchi readings, and dissolved oxygen readings; removing fish from nets, sorting fish by species and age, removing stomachs and otoliths, measuring and weighing fish, identifying sex, and determining maturity.
- Became familiar with proposal writing, data analysis, data interpretation, and creating graphs and tables for data display.

### PUBLICATIONS

**Banda, J.A.** and C.A. Stepien. 2008. A temporal analyses of walleye genetic stock structure in Lake Erie. *The Ohio Journal of Science*. (program abstract) 108(1): A-14 April.

### **PRESENTATIONS (5 most recent)**

International Association of Great Lakes Research 2009: “Fine-scale Temporal Genetic Structure of Lake Erie Walleye”

Great Lakes Fishery Commission – Lake Erie Committee Meeting 2009: “Fine-scale genetic structure of Lake Erie Walleye”

Lake Erie Committees Walleye Task force Annual Meeting 2009: “Fine-scale genetic structure of Lake Erie Walleye”

Lake Erie Fisheries Genetics workshop 2008: “A temporal analysis of walleye genetic stock structure in the Maumee & Sandusky Rivers”

International Association of Great Lakes Research 2008: “A temporal analysis of walleye stock structure in Lake Erie”

### **AWARDS**

Jan Fenske Memorial Award finalist 2008

### **GRADUATE ADVISOR**

Dr. Carol Stepien, Professor of Ecology and Director of the Lake Erie Center, University of Toledo

### **PROFESSIONAL MEMBERSHIPS**

American Fisheries Society

International Association of Great Lakes Research

Association for Women in Science