

**Jo Ann Banda**  
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University of Toledo

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**Education**    *M.S. Biology*    In progress  
University of Toledo, Toledo, OH

*B.S. Environmental Science*    August 2007  
Bowling Green State University, Bowling Green, OH

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**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).

*NSF-Research Experiences for Undergraduates (REU),*    Summer 2007  
*University of Toledo, Toledo, OH*

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

*Intern Technician, U.S. Geological Survey, Sandusky, OH*  
*Lake Erie Biological Station*    May 2006 – December 2006

- 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.
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**Publication** **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** *International Association of Great Lakes Research 2008, Peterborough, ON*  
**Oral** *Canada*

A temporal analysis of walleye stock structure in Lake Erie

*Ohio Academy of Science 2008, University of Toledo, Toledo, OH*

A temporal analysis of walleye stock structure in Lake Erie

*69<sup>th</sup> Midwest Fish & Wildlife Conference 2008, Columbus, OH*

A temporal analysis of Lake Erie walleye genetic stock structure

*University of Toledo Graduate Studies Symposium 2008, Toledo, OH*

A temporal analysis of walleye stock structure in Lake Erie

*Sacred Heart School Character education, Life skills development and Career exploration opportunities (CLC) 2008, Fremont, OH*

Life as an aquatic ecologist & geneticist

*Sigma Xi 2007, University of Toledo, Toledo, OH*

Temporal genetic variation of spawning Maumee River walleye

*NSF-REU 2007, University of Toledo, Toledo, OH*

Temporal genetic variation patterns of walleye spawning in the Maumee River

**Poster** *Ohio Fish and Wildlife Conference 2008, OSU, Columbus, OH*  
A temporal analysis of walleye genetic stock in Lake Erie

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**Awards** *Jan Fenske finalist 2008*

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**Professional** *American Fisheries Society*  
**Membership** *The Ohio Academy of Science*