# Brandon Gerig

University of Notre Dame Phone: (765) 618-8212

South Bend, IN 46616 Email: bgerig@nd.edu

Education

Doctor of Philosophy: Department of Biological Sciences ANTICIPATED SUMMER 2018

University of Notre Dame, Notre Dame, IN

Cumulative GPA: 3.78 (A=4.0)

Dissertation title: The interactive effects of watershed condition and contaminant biotransport by introduced Pacific salmon on the contaminant load of stream resident fish in Great Lakes Basin tributaries

Master of Science: Wildlife Ecology and Conservation MAY 2012

University of Florida, Gainesville, FL

Cumulative GPA: 3.88 (A=4.0)

Thesis title: Site occupancy and habitat selection of endangered humpback chub during

Experimental flow releases from Glen Canyon Dam in the Colorado River in Grand Canyon, Arizona

Bachelor of Science: Fisheries ManagementMaY 2009

Lake Superior State University (LSSU), Sault Ste. Marie, MI  
Cumulative GPA: 3.572 (A=4.0)

Senior Thesis: Population characteristics, movement patterns and habitat use of lake sturgeon,

(*Acipenser fulvescens*), in the St. Marys River, MI

AWARDS AND FELLOWSHIPS

EPA STAR Fellowship Recipient ($84,000) 2014-2016

Professional Development Award, University of Notre Dame ($544) 2014

IFAS Fellowship, University of Florida 2011

PUBLICATIONS

9. Moerke, A.H., M. Elya, **B.S. Gerig**, D.T. Chaloner, M.A. Brueseke, G.A. Lamberti. Potential for contrasting nutrient subsidies to Great Lakes tributaries by native and non-native migratory fishes. In prep for Freshwater Biology.

8. **Gerig, B.S**., D.T. Chaloner, D.J. Janetski, R.Rediske, A. Moerke, J. O’keefe, and G. Lamberti*.* ***In Review.*** Congener patterns of persistent organic pollutants reveal Pacific salmon contaminant delivery to Great Lakes tributaries. Environmental Science and Technology.

# Brandon Gerig Page 2

Publications continued

7. W. Pine, K. Limburg, L. Coggins, D. Chagaris, M. Dodrill, **B. S. Gerig**, C. Finch, D. Speas, C. Yackulic, W. Persons, M. Yard, R. Van Haverbeke, D. Stone. ***Submitted***. Does a “less modified” river trigger improvements in native fish growth rate? An assessment from the Colorado River. Journal of Fisheries and Wildlife Management

6. Hayes, F.P, M.J. Dodrill, **B.S. Gerig** C. Finch, W.E. Pine III. ***Submitted***. Spatiotemporal patterns in growth of juvenile Humpback Chub between the Colorado and Little Colorado Rivers, Grand Canyon, Arizona. Journal of Fisheries and Wildlife Management

5. C. G. Finch, W. E. Pine III, C.B. Yackulic, M. Yard, M. J. Dodrill, **B. S. Gerig**, L. G. Coggins, Jr., and J. Korman.2015. Assessing juvenile fish population demographic responses to a steady flow experiment in a highly regulated large river ecosystem: A test in the Colorado River below Glen Canyon Dam. River Research and Applications

4. **Gerig, B.S.,** M.J. Dodrill, W.E. Pine III. 2014. Habitat selection and movement of humpback chub during an experimental flow release from Glen Canyon Dam in Grand Canyon, Arizona. North American Journal of Fisheries Management

3. M.J. Dodrill**,** C. Yaculick, **B. S. Gerig**, M. Yard, J. Korman, W.E. Pine III. 2014. Do management actions to restore rare habitat benefit native fish conservation? Distribution of juvenile native fish in backwaters of the Colorado River. River Research and Applications

2. **Gerig, B.S**., A. Moerke, R. Greil and S. Koproski. 2011. Movement patterns and habitat characteristics of lake sturgeon (*Acipenser fulvescens*) in the St. Marys River, Michigan, 2007-2008. Journal of Great Lakes Research

1. Bauman, J.M., A. Moerke, R. Greil, **B. S. Gerig** and E. Baker. 2011. Population status and demographics of lake sturgeon (*Acipenser fulvescens*) in the St. Marys River, 2000-2007. Journal of Great Lakes Research

PRESENTATIONS

\*Designates poster presentation ΦDesignates student presentation

19. A.H. Moerke, M. Elya, BRANDON GERIG, D.T. Chaloner, M. Brueseke², and G. A. Lamberti. Potential for Contrasting Nutrient Subsidies to Great Lakes Tributaries by Native and Non-native Migratory Fishes. Society for Freshwater Science. Milwaukee, Wisconsin. May 2015\*

18. A.H. Moerke, M. Elya, BRANDON GERIG, D.T. Chaloner, M. Brueseke², and G. A. Lamberti. Potential for Contrasting Nutrient Subsidies to Great Lakes Tributaries by Native and Non-native Migratory Fishes. Society for Freshwater Science. Milwaukee, Wisconsin. May 2015\*

# Brandon Gerig Page 3

Presentations continued

17. A.H. Moerke, M. Elya, BRANDON GERIG, D.T. Chaloner, M. Brueseke², and G. A. Lamberti. Potential for Contrasting Nutrient Subsidies to Great Lakes Tributaries by Native and Non-native Migratory Fishes. Society for Freshwater Science. Milwaukee, Wisconsin. May 2015\*

16. L. McGill, BRANDON GERIG, D.T. Chaloner, and G. A. Lamberti Notre Dame College of Science-Joint Annual Meeting. April 2015\*Φ

15. J. Chau, C. Vizza, BRANDON GERIG, D.T. Chaloner, and G. A. Lamberti Implications of salmon-derived nutrients in non-native streams: Investigating the influence of salmon-derived Ca and P in Hunt Creek, Michigan. Notre Dame College of Science-Joint Annual Meeting. April 2015\*Φ

14. N. Weber, BRANDON GERIG, L. McGill, D.T. Chaloner, G.A. Lamberti. Effects of introduced Pacific salmon on the growth of brook and brown trout. Notre Dame College of Science-Fall Research Symposium. October 2014\*Φ

13. BRANDON GERIG, D.T. Chaloner, D.J. Janetski, A.H. Moerke, R.R. Rediske, J. O’Keefe, G. Lamberti. Tracing salmon-derived persistent organic pollutants in Great Lake tributaries using congener analyses. Joint Aquatic Sciences Meeting. May 2014.\*

12. E. Schwendy, BRANDON GERIG, G. Lamberti, and D. Chaloner. A comparison of hydrofracking fluid components used by different companies in different geographic regions of the United States. Notre Dame College of Science-Joint Annual Meeting. April 2014\*Φ

11. A. J. Wilson, D. T. Chaloner, M. A. Brueseke, BRANDON GERIG, and G. A. Lamberti. Patterns of Contaminant Transport by Pacific Salmon (*Oncorhynchus spp.*) into Great Lakes Tributaries. Notre Dame College of Science-Joint Annual Meeting. Poster. April 2014\*Φ

10. M. Dodrill, BRANDON GERIG, C. Finch, W. Pine, M. Yard – Assessing juvenile humpback chub population ecology in Grand Canyon: Insights motivated by the steady flow experiment, Desert Fishes Council. November 2013.

9. BRANDON GERIG, Response of native fish to non-native channel catfish remove in the Lower San Juan River, Annual Research Meeting for the San Juan River Recovery Implementation Program. March 2013.

8. BRANDON GERIG, Population status of humpback chub in Westwater Canyon, Annual Research Meeting for the Upper Colorado River Recovery Program. February 2013.

7. BRANDON GERIG, M. Dodrill, C. Finch, W. Pine, M. Yard – Assessing juvenile humpback chub population ecology in Grand Canyon: Insights motivated by the steady flow experiment, 10th Biennial Conference of Research on the Colorado Plateau. October 2011.

# Brandon Gerig Page 4

6. BRANDON GERIG, M. Yard, W. Pine- Site occupancy assessment of an experimental flow regime on the endangered humpback chub (Gila cypha) in the Colorado River, Grand Canyon, AZ. 141st Annual Meeting of the American Fisheries Society, September 2011

5. BRANDON GERIG, Habitat selection of humpback chub during an experimental flow regime in Grand Canyon. Florida Cooperative Fish and Wildlife Meeting, May 2011\*

4. BRANDON GERIG, Nearshore ecology of native fish in the Grand Canyon. Florida Cooperative Fish and Wildlife Meeting, May 2010\*

3. BRANDON GERIG, Population characteristics and movement patterns of lake sturgeon in the St. Marys River, MI. Lake Superior State University Senior Thesis Symposium, April 2009

2. BRANDON GERIG, Population characteristics, movement patterns and habitat of lake sturgeon in the St. Marys River, MI. Michigan Chapter of the American Fisheries Society, March 2009\*

1. BRANDON GERIG, Current status of the St. Marys River lake sturgeon: Where do we go from here. Michigan Chapter of the American Fisheries Society, March 2008\*

Work Experience

Utah Division of Wildlife Resource 04/2012 – 4/2013

**NATIVE FISHERIES BIOLOGIST** Performed all duties associated with research and monitoring of native fish populations in the Upper Colorado, Green and San Juan Rivers. Responsibilities included biological sample collection, report writing, project budgeting, and leading field crews on multi-day sampling trips through wilderness river reaches of Utah.

US Fish and Wildlife Service, Kenai Fish and Wildlife Field Office May 23 – August 27, 2008

**BIOLOGICAL SCIENCE TECHNICIAN** Performed all duties associated with the installation and maintenance of a resistance board weir to determine the escapement of adult Pacific salmon on the Kwethluk River in the Yukon Delta National Wildlife Refuge. Duties included enumerating hourly salmon escapement and quantifying the age distribution, sex ratio, and length distribution of the salmon run by species. Additional responsibilities included servicing video weirs, monitoring smolt emigration with rotary screw traps and assessing juvenile salmon nursery habitats.

PROGRAM PROFICIENCIES

R Statistical Software, Arc GIS, Microsoft Office Suite (Word, Excel, Power Point), Presence Occupancy Modeling Software, MARK Capture Recapture Software

RELEVENT COURSEWORK

**Graduate Coursework**

Biogeochemistry, Ecosystem Modeling, Aquatic Conservation, Fisheries Ecology and Management, Fisheries Assessment, Landscape Ecology, Stream Fish Biology, Natural Resources Administration, Statistics, Ecological Statistics and Design

**Undergraduate Coursework**

Fisheries Management, Principles of Watershed Management, Aquatic Entomology, Limnology, Fisheries Ecology, Ichthyology, Freshwater Fish Culture, Wildlife Ecology, Quantitative Biology, Biometrics, Vertebrate Anatomy, General Ecology, Field Botany, Ornithology, Natural History of the Vertebrates, Cell Biology, Zoology, Introduction to the Interpretation of Maps and Air Photos, Introduction to Geographic Information Systems, General Chemistry I & II, Survey of Organic Chemistry, Survey of Calculus, Statistics, Genetics, Introduction to Communications