

**STEVE HUSKEY
CURRICULUM VITAE**

PERSONAL INFORMATION

Office Address: Western Kentucky University
Department of Biology - TCCW 336
1906 College Heights Blvd. #11080
Bowling Green, KY 42101-1080
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FAX: (270) 745-6856
steve.huskey@wku.edu

Birth Date: 14 June, 1973

EDUCATION

Bachelor of Science. 1996. Western Michigan University.
Ph.D., Biology. 2003. Florida Institute of Technology.
Post-doctoral Associate. 2003. University of California, Davis.

RESEARCH INTERESTS

1. Ecological morphology of vertebrate feeding systems
2. Predator-prey interactions in vertebrates
3. Environmental biology of vertebrates
4. Skeletal design in vertebrates
5. Phenotypic plasticity in vertebrates

PROFESSIONAL EXPERIENCE***Teaching Appointments:***

2003 – present. Associate Professor of Biology. Department of Biology, Western Kentucky University, Bowling Green, KY.
2003. Teaching Assistant, Biological Discovery. Department of Biological Sciences, Florida Institute of Technology, Melbourne, FL.
1997 - 2003. Teaching Assistant, Biochemistry I and II. Department of Biological Sciences, Florida Institute of Technology, Melbourne, FL.

Research Appointments:

2003. Post-doctoral Associate - Department of Ecology and Evolution, University of California, Davis, CA.
2000. Research Assistant - United States Department of Navy, Office of Naval Research. Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL.
1998 - 2000. Research Assistant - Lockheed-Martin Federal Systems Department of Biological Sciences, Florida Institute of Technology, Melbourne.

- 1998 - 2003. Field Researcher / Experimental Product Testing. Outdoor Technologies Group, Spirit Lake, IA.
- 1997 - 2003. Research Associate. Florida Fish and Wildlife Conservation Commission, Melbourne, FL.
1994. Research Intern. Michigan Department of Natural Resources - Wildlife Division, Jones, MI.

AWARDS

2016. Nominated for the WKU Undergraduate Student Mentor Award.
2015. Nominated for the WKU Class of 2019 Award for Engagement.
2014. Won the Ogden College of Science and Engineering Advising Award.
2013. Nominated for the Ogden College of Science and Engineering Advising Award.
2012. Nominated for the Ogden College of Science and Engineering Advising Award.
2011. Nominated for the Ogden College of Science and Engineering Advising Award.
2009. Won the Ogden College of Science and Engineering Teaching Award.
2009. Nominated for the Ogden College of Science and Engineering Research Award.
2006. Nominated for the Ogden College of Science and Engineering Teaching Award.
2001. American Fisheries Society - Student Writing Award Honorable Mention. Bethesda, MD.
2001. Sigma Xi, The Scientific Research Society, Florida Institute of Technology Chapter - First Place, Student Published Paper Competition, Melbourne, FL.
2001. Florida Fish and Wildlife Conservation Commission Division of Fisheries Outstanding Volunteer Service Award in Fisheries Research, Tallahassee, FL.
2001. American Fisheries Society - Florida Chapter Roger R. Rottmann Memorial Scholarship, Jacksonville, FL.
2000. American Fisheries Society - John E. Skinner Memorial Award Honorable Mention, St. Louis, MO.
2000. American Fisheries Society - Student Paper Honorable Mention. St. Louis, MO.
2000. Florida Fish and Wildlife Conservation Commission Fisheries Volunteer Commendation for Division of Freshwater Fisheries, Tallahassee, FL.
1999. Florida Game and Fresh Water Fish Commission Division of Fisheries Outstanding Volunteer Service Award in Fisheries Research, Tallahassee, FL.
- 1998 - 2001. Kalamazoo Foundation Clarence L. Remyse Graduate Scholarship, Kalamazoo, MI.
1998. Florida Game and Fresh Water Fish Commission Division of Fisheries Outstanding Volunteer Service Award in Fisheries Research, Tallahassee, FL.
- 1997 - 2001. David H. Greene Memorial Graduate Scholarship, Schoolcraft, MI.
- 1991 - 1996. David H. Greene Memorial Undergraduate Scholarship, Schoolcraft, MI.
1991. Bronson Hospital Outstanding Prospective Scientist Scholarship, Vicksburg, MI.

POSITIONS

- 2010 - present. Associate professor – Western Kentucky University. Bowling Green, KY.
- 2003 - 2009. Assistant professor – Western Kentucky University. Bowling Green, KY.
2003. Faculty offer. Assistant professor – Pfeiffer University. Misenheimer, NC.

GRANTS

2016. NSF, EPSCoR – REG. Seismic communication in chameleons: Form and function of a novel signaling mechanism. \$33001

- 2016. WKU – FUSE with Ruth Hughes. \$4500
- 2016. WKU – Gatton RSG with Ruth Hughes. \$250
- 2015. WKU – QTAG. How do chameleons feel? \$1800
- 2015. WKU – Gatton RIG with Kristen Pederson. \$2000
- 2015. WKU – Gatton RSG with Kristen Pederson. \$250
- 2012. WKU – BSURE with Keyana Boka. \$1500
- 2012. WKU – FUSE with undergraduate Keyana Boka. \$4590
- 2010. National Geographic Society – Expeditions Council. Washington, D.C. \$17500
- 2009. National Geographic Society – Expeditions Council. Washington, D.C. \$35000
- 2009. Western Kentucky University. Proposal Incentive Fund. \$5500
- 2009. Western Kentucky University. Provost's Initiative for Excellence. \$3600
- 2008. Western Kentucky University, Honors Faculty Enrichment Grant. \$1500
- 2007. National Geographic Society – Committee for Research and Exploration. Washington, D.C. \$15000
- 2007. Western Kentucky University, Faculty Summer Scholarship. \$6000
- 2007. Western Kentucky University, Honors Faculty Enrichment Grant. \$1440
- 2006. Western Kentucky University, Junior Faculty Scholarship. \$4000
- 2006. Western Kentucky University. Proposal Incentive Fund. \$6000
- 2005. Western Kentucky University, Faculty Summer Scholarship. \$5000
- 2004. National Science Foundation, EPSCoR - Research Start-Up Funds, Western Kentucky University. \$75000
- 2004. Western Kentucky University, Faculty Summer Scholarship. \$5000
- 2004. Western Kentucky University, Proposal Development Travel Grant. \$1000
- 2003. Florida Institute of Technology, Biology Graduate Student Association, Student Travel Grant, Melbourne, FL. \$100
- 2000. Sigma Xi, The Scientific Research Society, Grant in Aid of Research (GIAR), Research Triangle Park, NC. \$600
- 2000. American Fisheries Society - Black Bass 2000 Symposium, Bass Pro Shops Student Travel Grant, St. Louis, MO. \$500
- 2000. Florida Institute of Technology, Biology Graduate Student Association, Student Travel Grant, Melbourne, FL. \$100
- 2000. Florida Chapter American Fisheries Society Student Travel Grant, Brooksville, FL. \$200
- 1999. Florida Chapter American Fisheries Society Student Travel Grant, Brooksville, FL. \$200
- 1997. Private sector business contributions totaling more than \$15000

PROFESSIONAL AFFILIATIONS

International Society of Vertebrate Morphologists
Society for Integrative and Comparative Biology

PUBLICATIONS

Primary Literature:

* *undergraduate student*

^ *graduate student*

- 2013. Rose, J[^], M. Sandefur*, S. Huskey, J. Demler*, M. Butcher. Muscle architecture and out-force potential of the thoracic limb in the Eastern mole (*Scalopus aquaticus*). *J. Morph.* 274: 1277-1287.
- 2012. Grubich, J., S. Huskey, S. Crofts[^], G. Orti, J. Porto. Mega-Bites: Extreme jaw

- forces of living and extinct piranhas (Serrasalminae). *Nature Sci. Rep.* 2, 1009; DOI:10.1038/srep01009.
2006. Wainwright, P., Huskey, S., Turingan, R., and Carroll, A. Ontogeny of suction feeding capacity in snook. *J. Exp. Zool.* 305A:246-252.
2004. Carroll, A., Wainwright, P., Huskey, S., Collar, D., and Turingan, R. Morphology predicts suction feeding performance in centrarchid fishes. *J. Exp. Biol.* 207:3873-3881.
2003. Huskey, S. Functional and morphological bases of intraspecific variation in the feeding ecomorphology of largemouth bass, *Micropterus salmoides*. Dissertation. 137pp.
2001. Huskey, S. and R. Turingan. Variation in prey-resource utilization and oral jaw gape between two populations of largemouth bass, *Micropterus salmoides*. *Env. Biol. Fish.* 61(2):185-194.

Published Abstracts:

* undergraduate student

2009. Modulation of prey-capture behavior in the goliath grouper. S. Huskey, *E. Gilson, *M. Hougland, A. Rhyne, and N. Konow. *Trans. American Fisheries Soc.*
2009. Scaling of feeding behavior and performance in goliath groupers. *M. Riggs, S. Huskey, A. Rhyne, N. Konow. *Trans. American Fisheries Soc.*
2009. Pattern of suction generation during prey-capture in an elongate fish. *J. Hall, *R. Quintero, S. Huskey, M. Gibbs. *Trans. American Fisheries Soc.*
2009. Prey-induced phenotypic plasticity in the teeth of hatchery vs. wild largemouth bass. *T. Selvaraj, *M. Mahan, S. Huskey. *Trans. American Fisheries Soc.*
2007. Huskey, S.H. and *R. Quintero. Why the long face? Suction feeding in trumpetfishes. *Integrative and Comparative Biology.*
2005. Huskey, S.H., P.C. Wainwright, R.G. Turingan, and A.M. Carroll. Scaling snook suction: effects of body size on feeding performance. *Integrative and Comparative Biology* 44(6):574.
2005. Carroll, A.M., P.C. Wainwright, S.H. Huskey, D.C. Collar, and R.G. Turingan. Force transmission during suction feeding in centrarchid fishes. *Integrative and Comparative Biology* 44(6):533.
2004. Huskey, S.H. Modulation of prey-capture kinematics in largemouth bass, *Micropterus* spp. *Integrative and Comparative Biology* 43(6):980.
2002. Huskey, S.H. and R.G. Turingan. Functional and morphological bases of intraspecific variation in the feeding ecomorphology of largemouth bass, *Micropterus salmoides*. *American Zoologist* 41(6):1479.
2001. Huskey, S.H. and R.G. Turingan. Variation in prey-resource utilization and oral jaw gape between two populations of largemouth bass, *Micropterus salmoides*. *American Zoologist* 40(6):1070.
1999. Huskey, S.H. and R.G. Turingan. Dietary switch through ontogeny in largemouth bass, *Micropterus salmoides*: a comparison between subtropical and temperate lakes. *American Zoologist* 39(5):34A.
1999. Huskey, S.H. and R.G. Turingan. Interpopulation variation in patterns of prey resource use by largemouth bass, *Micropterus salmoides*. *Florida Scientist* 63, Supplement 1:11-12.

Books:

2017. The Skeleton Revealed. 360pgs. Johns Hopkins University Press. ISBN: 9781421421483

2012. Biology: Evolution, Diversity, & Ecology. 108pgs. Pearson Custom Publishing. ISBN: 9781256797463.

Book Chapters:

2006. How Bass Attack *in* Bass Strategies, North American Fishing Club, Minnetonka, MN. Pages 8-13.

Technical Reports:

2003. Cox, D. and S.H. Huskey. Benthic macroinvertebrate diversity in the upper St. John's River basin, east-central Florida. Project Report, Florida Fish and Wildlife Conservation Commission, Melbourne, FL. 57pp.

2000. Turingan, R.G. and S.H. Huskey. Estimated biting strength of fishes and the effects of substratum type and jacket color on the vulnerability of underwater cables to fish bites. Technical Report, Lockheed-Martin Federal Systems, Manassas, VA. 65pp.

1999. Turingan, R.G. and S.H. Huskey. Biological hazard assessment: Spatial and temporal variation in the occurrence of aggressive behavior in fishes and other benthic organisms in the marine environment. Technical Report, Lockheed-Martin Federal Systems, Manassas, VA. 72pp.

Popular Press:

2012. Huskey, S.H. Small-Stream Bronzebacks. North American Fisherman. Minnetonka, MN.
<http://www.fishingclub.com/magazine/articles/articletype/articleview/articleid/3366/small-stream-bronzebacks>

2012. Huskey, S.H. WKU Spirit Magazine – Lights, Camera, Research (cover story).

2009. Huskey, S.H. Feeding mechanics: What they mean to you. North American Fisherman. Minnetonka, MN.

2008. Huskey, S.H. Modulation of feeding behaviors in freshwater gamefishes. North American Fisherman. Minnetonka, MN.

2007. Huskey, S.H. Bass are faster. North American Fisherman. Minnetonka, MN.

2006. Huskey, S.H. Naïve fish make for poor stockers. North American Fisherman. Minnetonka, MN.

2004. Scott, E.C., N.J. Matzke, G. Branch, S.H. Huskey, et al. The morphology of Steve. Annals of Improbable Research, July-August 24-29.

2003. Huskey, S.H. How bass attack. North American Fisherman. Minnetonka, MN.

2003. Huskey, S.H. Michigan vs. Florida bass: battle of the big mouths. North American Fisherman. Minnetonka, MN.

2002. Huskey, S.H. Hybridization in sunfish – Superfish? North American Fisherman. Minnetonka, MN.

Television:

2014. Why Sharks Attack (research featured), NOVA. WGBH, Boston, MA.

2014. Turtleman's Kentucky (science consultant and cameo). Animal Planet. Silver Springs, MD.

2012. River Monsters: Killer Weapons (science consultant), Animal Planet. Silver Springs, MD.

- 2011. Explorer: Megapiranha (host), National Geographic Channel. Washington, D.C.
- 2011. Naked Science: Sea Strikers (host), National Geographic Channel. Washington, D.C.
- 2010. WOW! episode 102 (research featured), National Geographic Channel. Washington, D.C.
- 2010. WOW! episode 103 (research featured), National Geographic Channel. Washington, D.C.

INVITED SPEAKER

- 2006. Fish suck: The challenges of feeding in an aquatic environment. University of Cincinnati, OH.
- 2004. Modulation of prey-capture kinematics in largemouth bass. Kentucky Academy of Sciences – Symposium on Aquatic Zoology. Murray, KY.
- 2003. Vertebrate design and function. Pfeiffer University, Misenheimer, NC.
- 2003. Big Mouth Billy Bass: A case study in vertebrate design and function. Western Kentucky University, Bowling Green, KY.
- 2000. Interpopulation variation in feeding ecology and biomechanics in largemouth bass, *Micropterus salmoides*. Florida Institute of Technology, Melbourne, FL.

PRESENTATIONS

* *undergraduate student*

^ *graduate student*

~ *high school student*

- 2017. The kinematics of envenomation by yellow stingrays. ~R. Hughes, S. Huskey, *K. Pedersen. Sigma Xi SRC, Bowling Green, KY.
- 2017. How do chameleons sense vibrations? Microscopic examination of possible sensory structures. *S. Palavra, S. Huskey, M. Smith. Sigma Xi SRC, Bowling Green, KY.
- 2016. Some chameleons really do hear it through the grapevine. S. Huskey, C. Anderson, M. Smith, K. Barnett. 11th International Congress of Vertebrate Morphology. Washington, D.C.
- 2016. What is all the buzz about? A novel form of seismic communication found in chameleons. M. Smith, S. Huskey, C. Anderson, K. Barnett. XII Congress for the International Society for Neuroethology. Montevideo, Uruguay.
- 2016. How to grow monster fish: diet, age, and growth of trophy bluegill and crappie in Michigan. ~R. Waterman, S. Huskey. Michigan FFA Agriscience Fair. East Lansing, MI.
- 2013. Reconstructing the bite of the giant Miocene piranha, *Megapiranha paranensis*. J. Grubich, S. Huskey, ^S. Crofts, G. Orti, J. Porto. Society for Integrative and Comparative Biology. San Francisco, CA.
- 2010. Explorer: Megapiranha, for National Geographic Television. Amazonia, Brazil.
- 2010. Naked Science: Sea Strikers, for National Geographic Television. Boynton Beach, FL.
- 2010. Pattern of suction generation during prey-capture in an elongate fish. *J. Hall, *R. Quintero, S. Huskey, M. Gibbs. Sigma Xi SRC, Bowling Green, KY.
- 2010. Pattern of suction generation during prey-capture in an elongate fish. *J. Hall, *R. Quintero, S. Huskey, M. Gibbs. KAS - NKU, Highland Heights, KY.
- 2010. Prey-induced phenotypic plasticity in the teeth of hatchery vs. wild largemouth bass. ^T. Selvaraj, ^M. Mahan, S. Huskey. KAS - NKU, Highland Heights, KY.
- 2010. Prey-induced phenotypic plasticity in the teeth of hatchery vs. wild largemouth

- bass. ^T. Selvaraj, ^M. Mahan, S. Huskey. Sigma Xi SRC, Bowling Green, KY.
2009. Modulation of prey-capture behavior in the goliath grouper. S. Huskey, *E. Gilson, *M. Hougland, A. Rhyne, and N. Konow. Amer. Fish. Soc. Nashville, TN.
2009. Scaling of feeding behavior and performance in goliath groupers. *M. Riggs, S. Huskey, A. Rhyne, N. Konow. Amer. Fish. Soc. Nashville, TN.
2009. Pattern of suction generation during prey-capture in an elongate fish. *J. Hall, *R. Quintero, S. Huskey, M. Gibbs. Amer. Fish. Soc. Nashville, TN.
2009. Prey-induced phenotypic plasticity in the teeth of hatchery vs. wild largemouth bass. *T. Selvaraj, *M. Mahan, S. Huskey. Amer. Fish. Soc. Nashville, TN.
2009. Suction feeding in an elongate fish. *J. Hall, *R. Quintero, S. Huskey, and M. Gibbs. WKU-SRC. Bowling Green, KY.
2009. Modulation of feeding behaviors in goliath groupers. *E. Gilson, *M. Hougland, S. Huskey, A. Rhyne, and N. Konow. WKU-SRC. Bowling Green, KY.
2009. Scaling of feeding performance in goliath groupers. *M. Riggs, S. Huskey, A. Rhyne, and N. Konow. WKU-SRC. Bowling Green, KY.
2008. How giants feed: prey-capture in North America's largest reef fish. S. Huskey, *E. Gilson, *M. Hougland, A. Rhyne, N. Konow. Gulf and Caribbean Fisheries Institute. Punta Cana, Dominican Republic.
2008. Pattern of subambient pressure changes in trumpetfish. *J. Hall, *R. Quintero, S. Huskey, and M. Gibbs. WKU BSURE Research Conference. Bowling Green, KY.
2007. Variation in feeding performance relative to prey elusivity in largemouth bass, *Micropterus salmoides floridanus*. CO/WY American Fisheries Society. Fort Collins, CO.
2007. Why the long face? Suction feeding in trumpetfishes. Society for Integrative and Comparative Biology. Phoenix, AZ.
2006. Modulation of intra-oral subambient pressure and feeding behavior relative to prey type in the largemouth bass, *Micropterus salmoides floridanus*. University of Wyoming. Laramie, WY.
2006. Variation in feeding performance relative to prey elusivity in largemouth bass, *Micropterus salmoides floridanus*. Kentucky/Tennessee American Fisheries Society. Buchanan, TN.
2005. Modulation of intra-oral pressure in feeding largemouth bass. Kentucky Academy of Sciences. Richmond, KY.
2005. Scaling snook suction: effects of body size on feeding performance. Society for Integrative and Comparative Biology. San Diego, CA.
2005. Force transmission during suction feeding in centrarchid fish. Society for Integrative and Comparative Biology. San Diego, CA.
2005. Role of prey-capture kinematics in the interaction between the introduced pike killifish and the native largemouth bass. American Society of Ichthyologists and Herpetologists. Tampa, FL.
2005. Scaling snook suction: effects of body size on feeding performance. Kentucky Academy of Sciences. Richmond, KY.
2004. Modulation of prey-capture kinematics in largemouth bass, *Micropterus* spp. Society for Integrative and Comparative Biology. New Orleans, LA.
2003. Modulation of feeding performance in largemouth bass, *Micropterus salmoides*: kinematics of prey capture in structured and non-structured environments. American Fisheries Society, Florida Chapter. Brooksville, FL.
2002. Functional and morphological bases of intraspecific variation in the feeding ecomorphology of largemouth bass, *Micropterus salmoides*. Society for Integrative and Comparative Biology. Anaheim, CA.
2002. Intraspecific variation in largemouth bass, *Micropterus salmoides*; food, jaws, and life in front of the camera. Florida Ichthyological Student Homily (F.I.S.H.).

- Florida Institute of Technology, Melbourne, FL.
2001. Variation in prey-resource utilization and oral jaw gape between two populations of largemouth bass, *Micropterus salmoides*. Society for Integrative and Comparative Biology. Chicago, IL.
2001. Functional and morphological bases of intraspecific variation in the feeding ecomorphology of largemouth bass, *Micropterus salmoides*. Florida Ichthyological Student Homily (F.I.S.H.). Tampa, FL.
2000. Dietary switch through ontogeny in largemouth bass, *Micropterus salmoides*: a comparison between subtropical and temperate lakes. Society for Integrative and Comparative Biology. Atlanta, GA.
2000. Interpopulation variation in patterns of prey resource use by largemouth bass, *Micropterus salmoides*. Florida Academy of Sciences. Melbourne, FL.
2000. Ontogenetic variability in prey consumption and oral jaw measurements between two endemic populations of *M. salmoides*. American Fisheries Society Florida Chapter. Brooksville, FL.
2000. Intraspecific variation in food habits, jaw gape, and lower jaw biomechanics in *Micropterus salmoides*. Florida Ichthyological Student Homily (F.I.S.H.). Melbourne, FL.
2000. Interpopulation variation in prey resource use and oral jaw gape in largemouth bass, *Micropterus salmoides*. American Fisheries Society. St. Louis, MO.
1999. Dietary switch through ontogeny in largemouth bass, *Micropterus salmoides*: a comparison between Michigan and Florida lakes. American Fisheries Society Florida Chapter. Brooksville, FL.
1999. Dietary switch through ontogeny in largemouth bass, *Micropterus salmoides*: a comparison between Michigan and Florida lakes. Florida Institute of Technology, Sigma Xi. Melbourne, FL.

EXHIBIT CONTRIBUTOR

Harvard Museum of Natural History, Cambridge, MA
California Academy of Science, San Francisco, CA
Miami Museum of Science and Planetarium, Miami, FL
Ripley's Believe It Or Not, Chattanooga, TN
Liberty Science Center, Jersey City, NJ
Savannah College of Art and Design, Savannah, GA
University of California, Davis, CA
Christopher Newport University, Newport News, VA
Image Knowledge Gestaltung, Interdisciplinary Research Cluster "+ultra" Exhibition,
Martin-Gropius, Bau, Berlin, Germany