

CURRICULUM VITAE
JACOB F. SCHAEFER
December 2007

General -- Born: St. Louis, Missouri, 10 August 1970
Email: jake.schaefer@usm.edu
Homepage: <http://ichthyology.usm.edu>

Education and Professional Positions --

Undergraduate Degree -

Stetson University

Deland Florida, 32720

May 1992 - B.S. in Biology, Minor in Chemistry

Undergraduate Research - Interactions between two poeciliid fishes (*Gambusia holbrookii* and *Heterandria formosa*) and their prey in a Florida marsh. *Copeia* (1994):516-521.

M.S. - December 1995

University of Oklahoma, Department of Zoology

Advisor: Loren G. Hill

Committee: Victor Hutchison, William J. Matthews

Stream microhabitat use by two centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). Published in *Environmental Biology of Fishes* 1999(54):303-312.

Ph. D. - May 1999

Modeling movement and dispersal by three stream dwelling cyprinids

(*Campostoma anomalum*, *Cyprinella venusta* and *Notropis boops*). Ch. 1 published in *Freshwater Biology* 2001(46):379-388.

University of Oklahoma, Department of Zoology

Advisor: William J. Matthews

Committee: Victor Hutchison, William Shelton, Larry Toothaker, Gary Wellborn

Postdoctoral - May 1999 - August 2000

Post Doctoral Research Associate

Sam Noble Oklahoma Museum of Natural History

Effects of barriers and thermal refugia on local movement of the threatened leopard darter (*Percina pantherina*), *Environmental Biology of Fishes*. 2003 (66):390-400.

August 2000 - May 2004

Assistant Professor

Southern Illinois University Edwardsville

Department of Biological Sciences

Edwardsville, IL 62025

August 2004 - Current

Assistant Professor

University of Southern Mississippi

Department of Biological Sciences

Hattiesburg, MS 39401

Areas of Research Interests -

Community Ecology, Ichthyology, Evolutionary Ecology, Physiological Ecology, Ecological Modeling, Applied Statistics

Teaching Experience -

Biology of Fishes, USM, 1 Semester
Ichthyology, USM, 1 Semester
Population and Community Ecology, USM, 2 semesters
Environmental Biology, USM, 1 semester
Ecology of Color and Light (graduate only), USM, 1 semester
Multivariate Analyses in Ecology(graduate only), USM, 1 semester
Honors Introductory Biology, USM, 3 semesters
Human Anatomy and Physiology (I and II), SIUE, 9 semesters.
Aquatic Ecosystems, SIUE, 1 semester
Animal Physiological Ecology, SIUE and USM, 1 semester each
Comparative Vertebrate Anatomy, SIUE, 1 semester
Experimental Design in Ecology, Univ. of Oklahoma Biol. Station, 4 sessions
Introductory Biology for Non Majors, SIUE, 2 semesters
Advanced Community Ecology (graduate only), SIUE, 1 semester
Senior Assignment, Senior Research Seminar, SIUE, 1 semester
Human Anatomy (cadaver based), University of Oklahoma, 2 semesters

Publications -

24. Bowen, B.R., B. Kreiser, P. F. Mickle, J. Schaefer, and S. B. Adams. 2008. Phylogenetic relationships among North American *Alosa* species (Clupeidae). In press, *Journal of Fish Biology*.
23. Vigueira, P., Schaefer, J.F., Kreiser, B.R., Duvernell, D. 2008. Tests of reproductive isolation among species in the *Fundulus notatus* (Cyprinodontiformes: Fundulidae) species complex. *Evolutionary Ecology* 22(1): 55-70.
22. Zuber, B., and Schaefer, J.F. 2007. Fluctuating asymmetry and condition of fishes exposed to varying levels of environmental stressors. *Proceedings of the Mississippi Water Resources Board* 37:179-185.
21. Meadows, D., Adams, S.B. and Schaefer, J.F. 2007. Threatened Fishes of the World: *Alosa alabamae* Jordan and Evermann, 1896 (Clupeidae). In press, *Environmental Biology of Fishes*, doi: 10.1007/s10641-007-9270-1.
20. Lutterschmidt, W.I, Schaefer J.F., and Furrillio, R. 2007. Relationships between parasite load and physiological performance (CTMax and endurance) of two Centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). *Journal of Comparative Parasitology*. 74(2): 194-203.
19. Duvernell, D., Schaefer, J.F., Hancks, D., Fonoti, J., Ravanelli, A. 2007. Hybridization and Introgression Among Syntopic Populations of the

Topminnows *Fundulus notatus* and *F. olivaceus* in Southern Illinois. *Journal of Evolutionary Biology*. **20**: 152-164.

18. Matthews, W.J. K. B. Gido, G. P. Garrett, F. P. Gelwick, J. Stewart, and J. Schaefer. 2006. Modular experimental riffle-pool stream system. *Transactions of the American Fisheries Society* **135**: 1559-1566.
17. Kerfoot, J.R. and Schaefer, J.F. 2006. Ecomorphology and habitat utilization of *Cottus* species. *Environmental Biology of Fishes* **76**:1-13.
16. Schaefer, J.F.,and Ryan, A. 2006. Developmental plasticity in the thermal tolerance of zebrafish (*Danio rerio*). *Journal of Fish Biology* **69**: 722-734.
15. Schaefer, J.F. 2006. A simple and economical method for precise, programmable thermal regimes in recirculating aquatic mesocosms. *North American Journal of Aquaculture* **68**: 240-244.
14. Schaefer, J.F., Mickle, P., Spaeth, J., Zuber, B., Matamoros, W., Adams, S., Kreiser, B., Vigueira, P. 2006. Effects of hurricane Katrina on the fish fauna of the Pascagoula drainage. *Proceedings of the Mississippi Water Resources Board* **36**:62-68.
13. Schaefer, J.F., Gido, K.G. and Smith, M. 2005. A test for community change using a null model approach. *Ecological Applications*. **15**(5): 1761-1771.
12. Schaefer, J.F, K. Gido, and M. Smith. 2005. Computer Program: A test for community change using a null model approach. *Ecological Archives* A015-052.
11. Gido, K.B., Schaefer,J.F. and Pigg, J. 2004. Patterns of fish invasions in the Great Plains of North America. *Biological Conservation*. **118**:121-131
10. Schaefer, J.F., Kerfoot, J.R. 2004. Fish assemblage change in an adventitious stream: Landscape perspectives. *American Midland Naturalist*. **151**(1):143-155.
9. Schaefer, J.F., Gido, K.B., Spooner, D. Marsh-Matthews, E. 2003. Effects of barriers and thermal refugia on local movement of the threatened leopard darter (*Percina pantherina*). *Environmental Biology of Fishes* **66**:391-400.
8. Schaefer, J.F. 2001. Riffles as barriers to inter-pool movement by three cyprinids (*Notropis boops*, *Campostoma anomalum* and *Cyprinella venusta*). *Freshwater Biology* **46**:379-388.
7. Leinesch, P., Lutterschmidt, W. I. and Schaefer, J. F. 2000. Assemblage changes in a small creek after isolation due to reservoir formation. *Southwestern Association of Naturalists* **45**(3):274-288.

6. Gido, K. B., Schaefer, J.F., Work, K.A., Lienesch, P.W., Matthews, W.J. and Marsh-Matthews, E. 1999. Effects of red shiner (*Cyprinella lutrensis*) on Red River pupfish (*Cyprinodon rubrofluviatilis*). *Southwestern Association of Naturalists* **44**(3) 287-295.
5. Schaefer, J. F., Lutterschmidt, W. I., and Hill, L. G. 1999. Physiological performance and stream microhabitat use by two centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). *Environmental Biology of Fishes* **54**:303-312.
4. Schaefer, J.F. and Lutterschmidt, W.I. 1997. Predator/prey computer simulation (Option 2). Chapter 15, Section 3, Pp 199-202. In: P.M. Hopkins and D.G. Smith (Eds.), *Introduction to Zoology: A Laboratory Manual* (3rd edition). Morton Publishing Co., Englewood, Colorado.
3. Lutterschmidt, W. I. and Schaefer, J. F. 1997. A computer simulation for demonstrating and modeling predator-prey oscillations. *Journal of Biological Education* **31**(3):221-227.
2. Lutterschmidt, W. I. and Schaefer, J. F. 1996. Mist netting for snakes: adapting a technique borrowed from ornithology for sampling semi-aquatic snake populations. *Herpetological Review* **27**(3):131-132.
1. Schaefer, J.F., Heulett, S.T. and Farrell, T.F. 1994. Interactions between two poeciliid fishes (*Gambusia holbrooki* and *Heterandria formosa*) and their prey in a Florida marsh. *Copeia* **1994**:516-521.

Published Book Reviews -

2005. Review of "Fishes of Oklahoma", Quarterly Review of Biology. 80(1):129.

Reports -

- Mickle, P., B. Bowen, J. Schaefer, S. Adams and B. Kreiser. 2006. Continued assessment of the status and viability of Alabama shad (*Alosa alabamae*) in the Pascagoula River drainage and range-wide population genetic structure. Unpublished report to the U.S. Fish and Wildlife Service.
- Bishop, J. and J. Schaefer. 2007. Movement, dispersal, survivorship and home range estimates of stocked young of year alligator gar (*Atractosteus spatula*) in the Upper Hatchie River. Unpublished report to the Tennessee Department of Wildlife Resource Agency.

Manuscripts in Preparation or Under Review -

- Mickle, P., J.F. Schaefer, S.B. Adams and B.R. Kreiser. Intradrainage patterns in recruitment timing, habitat use, and growth of juvenile Alabama Shad, Mississippi USA. In revision, *Transactions of the American Fisheries*

Society.

Matamoros, W.A. and J.F. Schaefer. A new species of *Profundulus* (Cyprinodontiformes: Profundulidae) from the Honduran central highlands. In revision.

Matamoros, W.A. and J.F. Schaefer. First record of *Agonostomus monticola* (Family: Mugilidae) in Mississippi freshwaters with notes of its distribution in the southern USA. In review.

Gido, K.B., J.F. Schaefer and J.A. Falke. Convergence of littoral zone fish communities in reservoirs. In review.

Invited Seminars -

Kansas State University, Fall 2008
Louisiana State University, Spring 2007
Sam Houston State University, Fall 2004
Tulane University, Fall 2004
Mississippi State University, Fall 2004
Northern Kentucky University, Spring 2004
Saint Louis University, Fall 2002
Central Missouri State University, Spring 2000.
California State University at Chico, Spring 2000.
Virginia Wesleyan University, Spring 2000.
Southern Illinois University Edwardsville, Spring 2000.

Papers Presented -

Schaefer, J., *Mickle, P.F., *Spaeth, J., Adams, S.B., Kreiser, B.K., *Matamoros, W., *Zuber, B., *Bishop, J. Effects of hurricane Katrina on the fish fauna of the Pascagoula drainage. American Society of Ichthyologists and Herpetologists, 2007.

*Zuber, B., Schaefer, J.F. Fluctuating asymmetry and condition in fishes exposed to varying levels of environmental stressors. Mississippi Water Resources Council, 2007.

*Vigueira, P., Schaefer, J.F., Duvernell, D and Kreiser, B. Reproductive isolation among species in the *Fundulus notatus* species complex. American Society of Ichthyologists and Herpetologists, 2006.

Schaefer, J.F., *Mickle, P., *Spaeth, J., *Zuber, B., *Matamoros, W., Adams, S., Kreiser, B., *Vigueira, P. Effects of hurricane Katrina on the big river fish fauna of the Pascagoula drainage. Mississippi Water Resources Conference, 2006.

Schaefer, J.F., *Vigueira, P., Duvernell, D., Kreiser, B. Reproductive isolation among species in the *Fundulus notatus* species complex. Southwestern Association of Naturalists, 2006.

Retzlaff, W., A. Ringhausen, S. *Hu, J. Schaefer, N. *Satam, and P. *Bhattari.

- Calculating 150 years of land use change within a Midwestern watershed. Ecological Society of America, 2005.
- Duvernell, D., Schaefer, J. Hybridization and introgression between two killifish species, *Fundulus notatus* and *Fundulus olivaceus*. Evolution, 2005.
- Schaefer, J., K. Gido, J. Kerfoot, G. Reeck. Developmental plasticity in the thermal tolerance of zebrafish. American Society of Ichthyologists and Herpetologist, 2005.
- Spaeth, J., J. Schaefer, B. Kreiser and Ramirez, R. The effects of unfavorable habitat on the dispersal of *Campostoma anomalum* (Cyprinidae) as measured by microsatellites. American Association of Ichthyologists and Herpetologist, 2005.
- Persons, K., J. Schaefer and D. Duvernell. Fundulus morphometrics Synclinal variance in morphology within the *Fundulus notatus* species complex. American Association of Ichthyologists and Herpetologist, 2005.
- *Ramirez, R. J. Schaefer and B. Meinardi. Effects of Flooding on Fish Community in an Ozark River Drainage. American Society of Ichthyologists and Herpetologist. 2004.
- *Foster, A., J. Schaefer, D. Duvernell, and A. Ravanelli. The effects of turbidity on the rate of hybridization between two topminnows. American Society of Ichthyologists and Herpetologist. 2004.
- *Ravanelli, A.M., A. Foster, J. Schaefer and D. Duvernell. Morphological and Molecular Analysis of Two Species of Killifish (genus *Fundulus*) in a Hybrid Zone. Evolution, 2004.
- Gido, K.B., J.F. Schaefer, A. Lickteig, D. Qixin, Z. Jepson, N. Mutti, G. Reeck. Heat Shock Proteins and Temperature Adaptation by Native Minnows of Kansas. 2004. Ecological Genomics Workshop.
- *Kasselbaum, B. and Schaefer, J.F. Thermal biology of darters from thermally contrasting streams in a Midwestern drainage. Illinois State Academy of Sciences 2004. Southwestern Association of Naturalists 2004.
- Mammoliti, C., Mulhern, D., Tabor, V., Schaefer, J., Shaw, M. Effects Of Gravel Mining On The Neosho Madtom (*Noturus placidus*). Midwest Fish and Wildlife Conference 2003.
- *Kerfoot, J. and Schaefer, J.F., Microhabitats and ecomorphologies of *Cottus* spp. Southwestern Association of Naturalists. Southwestern Association of Naturalists 2003, Illinois State Academy of Sciences 2003.
- *Meinardi, B. and Schaefer, J.F. Thermal stress and conservatioin of two darters , *Etheostoma caeruleum* (rainbow darter) and *Etheostoma flabellare* (fantail darter), in a small midwestern drainage, Southwestern Association of Naturalists 2003, Illinois State Academy of Sciences 2003
- *Love, E., Smith, M., and Schaefer, J. Illinois State Academy of Sciences 2003. Effects of Inter- and Intraspecific Competition on *Boltonia decurrens*, an endangered Wetland species.
- Schaefer, J.F., Gido, K.B. and Kerfoot, J. A method for assessment of long term change in stream fish assemblages. American Society of Ichthyologists and Herpitologists. 2002.
- Gido, K.B. and Schaefer, J.F. Patterns of fish invasions in the Great Plains. American Society of Ichthyologists and Herpitologists. 2002.

- *Funderburg, C., Zacha, S. and Schaefer, Jacob F. The Influence Of Land Use On The Fish Community In A Midwestern Drainage. Illinois State Academy of Science. 2002.
- Kerfoot, J.R. and Schaefer, Jacob F. The Stability of Piasa Creek Fish Assemblage. Illinois State Academy of Science. 2002.
- Schaefer, J.F. and Gido, K. Use of deep water as a thermal refugia and observed piscivory by the threatened leopard darter (*Percina pantherina*). Oklahoma Chapter of the American Fisheries Society 2001.
- Schaefer, J.F. and Gido, K. Use of deep water as a thermal refugia and observed piscivory by the threatened leopard darter (*Percina pantherina*). Southwestern Association of Naturalists 2000.
- Gido, K.B., Schaefer, J.F. and Pigg, J. Hydrologic variability and susceptibility to invasion: testing some assumptions with a long term data set. Southwestern Association of Naturalists 2000.
- Schaefer, J. F. Modeling movement and dispersal of stream fish: A mark-resight study in Brier Creek (Oklahoma). American Society of Ichthyologists and Herpetologists 1999. Southwestern Association of Naturalists 1999.
- Schaefer, J.F. Modeling movement and dispersal of stream fish. Poster presentation. Southern Division American Fisheries Society 1999.
- Schaefer, J.F., Gido, K.B., Work, K.A., Lienesch, P.W., Matthews, W.J. and Marsh-Matthews, E. Effects of Red shiner (*Cyprinella lutrensis*) on Red River Pupfish (*Cyprinodon rubrofluvialis*). Southwestern Association of Naturalists 1998.
- Schaefer, J.F. 1997. The influence of riffles on the movement rates of fish within streams. American Society of Ichthyologists and Herpetologists 1997. Southwestern Association of Naturalists 1997.
- Schaefer, J. F., Lutterschmidt, W. I., and Hill, L. G. 1996. Stream microhabitat use by two centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). American Society of Ichthyologists and Herpetologists 1996. Southwestern Naturalists 1996.
- Lienesch, P., Lutterschmidt, W. I. and Schaefer, J. F. Assemblage changes in a small creek after isolation due to reservoir formation. Southwestern Naturalists 1996.

* - Undergraduate or graduate student projects.

Grants and Contracts-

- * National Science Foundation. Improvements to the USM/GCRL Ichthyological collection. \$256,211. 2008-2010.
- * Critical Ecosystem Partnership Fund, Conservation International. Biogeographical patterns of northern mesoamerican (Honduras) freshwater fishes: Looking for "hotspots" and zones of endemism.. \$38,533. 2007-2008.
- * National Science Foundation. Phylogeography, ecology and reproductive

isolation in the *Fundulus notatus* species complex. \$408,455. 2007-2010.

* Tennessee Wildlife Resources Agency. Movement, dispersal, survivorship and home range estimates of stocked young of year alligator gar (*Atractosteus spatula*) in the Upper Hatchie River. \$10,000. 2007.

* N.O.A.A. - Status and viability of Alabama shad (*Alosa alabamae*) in the Pascagoula River drainage. \$18,000. 2005-2007.

* U.S.D.A. Forest Service - Status and viability of Alabama shad (*Alosa alabamae*) in the Pascagoula River drainage, and range wide population genetic structure. \$16,000. 2006-2008.

SIUE Summer Research Fellowship. Fish dispersal through a riverine landscape: Effects of unfavorable habitat. \$6,000. 2003.

*Analysis of gravel mining impacts on the Neosho Madtom. Kansas Department of Wildlife and Parks. \$6,000. 2003.

SIUE Graduate School, Funded construction of artificial stream research park, \$10,000. 2003.

*Analysis of gravel mining impacts on the Neosho Madtom. Kansas Department of Parks and Wildlife. \$5,500. 2002.

*Brunkow, P. and Schaefer, J.F. U.S. Army Corps of Engineers. A complete faunal survey of Lake Wappapello. \$144,000. 2002-2005.

*Schaefer, J. Illinois Department of Natural Resources. A mark/recapture study to estimate movement and dispersal of nongame stream fish in Piasa Creek (Jersey county, IL), \$1,000. 2001-2002.

SIUE Excellence in undergraduate education. \$14,975, Fall 2002.

SIUE Excellence in undergraduate education. \$4,000, Fall 2001.

SIUE Summer Research Fellowship, 2002. Environmental degradation and the long-term change in the fish community of Piasa Creek. \$6,000.

SIUE Summer Research Fellowship. 2001. Detecting nonrandom long-term change in biological community data. \$6,000.

1995 and 1997 - Department of Zoology Summer Research Assistantship.

Durtsche, R., Schaefer, J.F., Lutterschmidt, W.I., Fuller, W., and Polivka, K.P. 1996. Instrument and Equipment grant. Hach Company, \$4,000.

*External Funding - \$903,699

Professional Service -

Treasurer, Southwestern Association of Naturalists, June 2003 - Present
Board of Governors, Southwestern Association of Naturalists, 2003 - Present
President of USM Sigma Xi Chapter, 2003 - Present
Reviewed Proposals - National Science Foundation (multiple), National Oceanic and Atmospheric Administration (multiple), Illinois State Academy of Sciences.
Served as Guest Editor - Southeastern Naturalist (multiple), Ecology of Freshwater Fishes
Reviewed Manuscripts for - Oecologia, Copeia, Fisheries, Journal of Animal Ecology, Biological Conservation, Conservation Biology, Transactions of the American Fisheries Society, Ecology of Freshwater Fishes, American Midland Naturalists, North American Journal of Fisheries Management, Marine and Freshwater Research, Southwestern Naturalist, Southeastern Naturalist, Texas Journal of Science, Transaction of the Illinois Academy of Science, Journal of the Mississippi Academy of Sciences.

Graduate Students -

James Kerfoot, Fall 2001- Summer 2003, Completed MS. Currently pursuing Ph.D. at Florida Tech.
Bethany Meinardi, Spring 2002 - Spring 2004, Completed MS.
John Spaeth, Fall 2004 - Spring 2008
Karen Persens, Fall 2004 - present (USM)
Paul Mickle, Fall 2005 - present (USM)
Brianna Zuber, Fall 2005 - present (USM)
Justin Bishop, Spring 2006 - present (USM)
Wilfredo Matamoros, co-chair with B. Kreiser, Fall 2005 - present (USM)
Charles Champagne, Fall 2007 - present (USM)

Undergraduate Students -

Spring 2007

Leah Gaines (McNair Scholar Program) - Competition among sister species in the *Fundulus notatus* species complex.

Fall 2005 - Spring 2006

Patrick Vigueira - Postzygotic reproductive barriers in the *Fundulus notatus* species complex. Honors Thesis.

Published results - Vigueira, P., Schaefer, J.F., Kreiser, B.R., Duvernell, D. 2007. Tests of reproductive isolation among species in the *Fundulus notatus* (Cyprinodontiformes: Fundulidae) species complex. In press, *Evolutionary Ecology*.

Spring 2005

Anthony Ryan - Developmental plasticity in the thermal tolerance of zebrafish (*Danio rerio*).

Published results - Schaefer, J.F., and Ryan, A. 2006. Developmental plasticity in the thermal tolerance of zebrafish (*Danio rerio*). *Journal of Fish Biology* **69**: 722-734.

Spring 2004

Larissa Harrison - Thermal preference in male and female zebrafish

(*Danio rerio*)

Fall 2003

Tatanisha Handy - Food processing time by an herbivorous minnow (*Campostoma anomalum*) and its potential effects of nutrient cycling.

Spring 2003

Jennifer Burden - Stress Induced Fever in the goldfish (*Carassius auratus*)
Natalie Ohl - Darter Thermal Preference Under the Threat of Predation
Kelli Lomas - Behavioral fever in response to osmotic shock in the goldfish.

Fall 2002

Angie Markovich - Does the Turbidity of Water Effect the Rate of Hybridization Between Two Species of Topminnows?
Elizabeth Shebut - Will Restrictive and Unrestrictive Feeding Treatments Effect Reproductive Effort Among Two Species of Fundulus?

Spring 2002

Steve Zacha - A Diet Study of *Semotilus atromaculatus* Populations in Piasa Creek.
Lucas Roberts - Top-down vs. Bottom-up Effects on Daphnia densities.
Travis Burluson - A mark/recapture study to estimate movement and dispersal of nongame stream fish in Piasa Creek

Fall 2001

Cathie Funderburg - Correlations Between Habitat Complexity and Fish Community Properties at Piasa Creek.
Carrie Casarta - Correlating Environmental Variables with Halibut Sport Fishing Yields, Cook Inlet, Alaska

Spring 2001

Rick McClain - Behavioral Reaction of the Zebra danio (*Danio rerio*) to Alarm Substance and Temperature Variation.
Nate Brooks - The Effects of Condition on Endurance in Green Sunfish.

Professional Honors -

2000 George Miksch Sutton Award in Conservation Research, The Southwestern Association of Naturalists.

Sigma Xi member since 2000

Beta Beta Beta biological honor society member since 1991

Southwestern Association of Naturalists

American Society of Ichthyologists and Herpetologists

Southeastern Fish Council

American Fisheries Society

Computer Languages -

Developed and published software in C/C++, Pascal, and PHP in both Windows and UNIX environments. Experience developing database applications deployed over networks.

References and Collaborators -

Dr. William Matthews
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University of Oklahoma
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