

CURRICULUM VITAE OF JEFFREY ARRON FALKE (August 2008)

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EDUCATION:

PhD Colorado State University (Fisheries Ecology; anticipated graduation May 2009)
M.S. Kansas State University. 2004 (Biology)
B.S. University of Missouri. 2000 (Fisheries and Wildlife)
A.A. Longview Community College. 1995

EMPLOYMENT:

2005 -pres. Graduate Research Assistant, Colorado State University
2003-2004 Graduate Research Assistant, Kansas State University
2001-2002 Fisheries Research Technician, Arizona Game and Fish Department
1999-2001 Fisheries Aide, Missouri Department of Conservation

COURSES TAUGHT:

Ichthyology, Colorado State University, Fall 2008, Primary Instructor
Design of Fishery and Wildlife Projects, Colorado State University, Spring 2008, Co-Instructor

TEACHING ASSISTANTSHIPS:

Fisheries Management, Kansas State University, Fall 2004
Principles of Biology, Kansas State University, Spring 2004
Botany, Kansas State University, Fall 2003
Principles of Biology, Kansas State University, Spring 2003

RESEARCH INTERESTS:

Ecology and conservation of Great Plains fishes
Spatial ecology, connectivity, and fragmentation in freshwater ecosystems
Impacts of introduced species on native fish assemblages
Population and community ecology of freshwater stream fishes
Early life history and ecology of fishes

HONORS AND AWARDS:

Finalist, American Fisheries Society Best Student Paper Award 2008
Eugene Maughan Graduate Student Scholarship, Western Division AFS 2008
Colorado-Wyoming Chapter AFS Memorial Scholarship 2008
Jay Hokenstrom Memorial Scholarship 2008
John E. Skinner Memorial Fund Award, American Fisheries Society 2004
Kansas State University Division of Biology Student Travel Award 2004

PROFESSIONAL ORGANIZATIONS:

American Association for the Advancement of Science
American Fisheries Society
American Society of Ichthyologists and Herpetologists
Ecological Society of America
North American Benthological Society
Southwestern Association of Naturalists

PROFFESIONAL SERVICE:

- Western Division Representative, Student Subsection of the American Fisheries Society (2005-2007)
- Session moderator, American Fisheries Society Annual Meeting, Lake Placid, NY (2006)
- Poster Judge, American Fisheries Society Annual Meeting, Lake Placid, NY (2006)
- Poster Judge, American Fisheries Society Annual Meeting, Anchorage, AK (2005)
- Poster Judge, Front Range Ecology Symposium (2005)
- Poster Judge, American Fisheries Society Annual Meeting, Madison, WI (2004)
- President, Kansas State University Student Sub-unit, Kansas Chapter of the American Fisheries Society (2003-2004)
- Vice President, University of Missouri Student Sub-unit, Missouri Chapter of the American Fisheries Society (1999-2000)
- Member, University of Missouri School of Natural Resources Student Council (1998-1999)
- Manuscript reviewer for: *Canadian Journal of Fisheries and Aquatic Sciences*; *River Research and Applications*; *Environmental Biology of Fishes*; *Ecography*

PEER-REVIEWED PUBLICATIONS:

Falke, J. A., Fausch, K. D., Magelky, R., Squires, A., Durnford, D., Riley, L. and R. Oad. *In prep.* Ecological futures for stream fishes along an intermittent Great Plains riverscape affected by drought and groundwater withdrawal for irrigation.

Falke, J. A., and K. D. Fausch. *In review.* From metapopulations to metacommunities: linking theory with empirical observations of the spatial population dynamics of stream fishes. *In: Community ecology of stream fishes. Edited by K. B. Gido and D. A. Jackson. American Fisheries Society Special Publication XX.*

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

Dodds, W.K., Wilson, K.C., Rehmeier, R.L., Knight, G.L., Harper, S.W., **Falke, J.A.** Dalglish, H.J., and K.N. Bertrand. *In press*. Comparing ecosystem goods and services provided by restored and native lands. *BioScience*.

Falke, J.A., and K.B. Gido. 2006. Effects of reservoir connectivity on stream fish assemblages in the Great Plains. *Canadian Journal of Fisheries and Aquatic Sciences* 63:480-493.

Falke, J.A., and K.B. Gido. 2006. Spatial effects of reservoirs on fish assemblages in Great Plains streams in Kansas, U.S.A. *River Research and Applications* 22:55-68.

Gido, K.B., **Falke, J.A.**, Oakes, R.M., and K. Hase. 2006. Fish-habitat relationships across spatial scales in prairie streams. *In: Influences of landscape on stream habitat and biological communities. Edited by Hughes, R., Seelbach, P., and Wang, L.* American Fisheries Society Special Publication 48.

Oakes, R.M., Gido, K.B., **Falke, J.A.**, Olden, J.D., and B.L. Brock. 2005. Predictive modeling of stream fish assemblages in the Great Plains, USA. *Ecology of Freshwater Fish* 14:361-374.

REPORTS:

Falke, J.A., and K.D. Fausch. 2007. Groundwater pumping and drought: effects on fish and fish habitats in the Arikaree River, Colorado. Annual report to Colorado Division of Wildlife, Interagency Agreement IA-CSU-1183-2004, Colorado State University, Fort Collins.

Falke, J.A., and K.D. Fausch. 2006. Effects of seasonal drying on fish habitat and larval and adult fish assemblages in the Arikaree River, Colorado. Annual report to Colorado Division of Wildlife, Interagency Agreement IA-CSU-1183-2004, Colorado State University, Fort Collins.

Fausch, K.D., **Falke, J.A.**, and H. Griscom. 2005. Arikaree River: Plains fish habitat surveys 2000-2004. Colorado State University, Fort Collins.

Slaughter, J.E., IV, Gurtin, S.D., **Falke, J.A.**, Sampson, S.J., and R.H. Bradford. 2004. Habitat selection and use by hatchery-reared adult razorback sucker and flathead catfish and the response of razorback sucker to off-channel habitat restoration activities within the Imperial Division, Lower Colorado River. Contract report No. 5 to U.S. Bureau of Reclamation, Cooperative Agreement 99-FG-34-0005 and 99-FG-34-0009, Arizona Game and Fish Department, Phoenix

PRESENTATIONS:

- Falke, J.A.**, and K.D. Fausch. 2008. Metacommunity dynamics of stream fishes: theory and an empirical test. American Fisheries Society Annual Meeting / Community Ecology of Stream Fishes Symposium. August 19, 2008. Ottawa, Ontario.
- Falke, J.A.**, Fausch, K.D., Magelky, R., Squires, A., Durnford, D., Riley, L. and R. Oad. 2008. Ecological futures for stream fishes along an intermittent Great Plains riverscape affected by drought and groundwater withdrawal for irrigation. American Fisheries Society Annual Meeting / Best Student Paper Symposium. August 18, 2008. Ottawa, Ontario.
- Falke, J.A.**, Fausch, K.D., Magelky, R., Squires, A., Durnford, D., Riley, L. and R. Oad. 2008. Ecological futures for stream fishes along an intermittent Great Plains riverscape affected by drought and groundwater withdrawal for irrigation. North American Benthological Society Annual Meeting. May 27, 2008. Salt Lake City, UT.
- Falke, J.A.**, Fausch, K.D., Magelky, R., Squires, A., Durnford, D., Riley, L. and R. Oad. 2008. Ecological futures for stream fishes along an intermittent Great Plains riverscape affected by drought and groundwater withdrawal for irrigation. Colorado/Wyoming Chapter of the American Fisheries Society. March 5, 2008. Cheyenne, WY.
- Falke, J.A.**, and Kurt D. Fausch. 2007. Groundwater-fish habitat relations in the Arikaree River, Colorado. Informational Workshop for Partner Agencies [Republican River Water Conservation District; Colorado Division of Wildlife; The Nature Conservancy; Colorado Agricultural Experiment Station]. Colorado State University, November 27, 2007. Fort Collins, CO.
- Falke, J.A.** 2007. Survival in a harsh environment: adaptations of Great Plains fishes to local scale environmental variability. Colorado/Wyoming Chapter of the American Fisheries Society Continuing Education Workshop: "Ecology and Management of Great Plains Stream Fishes". March 1, 2007. Fort Collins, CO.
- Falke, J.A.** 2007. Effects of groundwater withdrawal and drought on fishes in the Arikaree River basin, Colorado: a case study. Colorado/Wyoming Chapter of the American Fisheries Society Continuing Education Workshop: "Ecology and Management of Great Plains Stream Fishes". March 1, 2007. Fort Collins, CO.
- Falke, J.A.**, and K.D. Fausch. 2006. Patterns in the early life histories of an assemblage of fishes along a Great Plains riverscape in Colorado. American Fisheries Society Annual Meeting. September 11, 2006. Lake Placid, NY.
- Falke, J.A.** and K.D. Fausch. 2006. Patterns in the early life histories of an assemblage of fishes along a Great Plains riverscape in Colorado. Colorado/Wyoming Chapter of the American Fisheries Society. March 8, 2006. Cheyenne, WY.

- Falke, J.A.**, Fausch, K.D., Scheurer, J.A., Fardal, L.A., Griffin, S.D., and Oad, R. 2005. Regional drought, groundwater pumping, and habitat for stream fishes along a Great Plains riverscape in Colorado. American Fisheries Society Annual Meeting. September 14, 2005. Anchorage, AK.
- Falke, J.A.** 2004. Upstream effects of reservoirs on stream fish assemblages in the Great Plains. Master's defense seminar. Kansas State University. December 3, 2004. Manhattan, KS.
- Falke J.A.**, and K.B. Gido. 2004. Effects of reservoir connectivity on stream fish assemblages in the Great Plains. American Fisheries Society Annual Meeting. August 24, 2004. Madison, WI.
- Falke, J.A.**, Gido, K.B. and W.K. Dodds. 2004. Kansas Aquatic GAP (Overview). USFWS Region 6 Planning Meeting. May 6, 2004. Hays, KS.
- Falke J.A.**, and K.B. Gido. 2004. Effects of reservoir connectivity on stream fish assemblages in the Great Plains. Southwestern Association of Naturalists. April 17, 2004. San Antonio, TX
- Falke, J.A.**, and K. B. Gido. 2003. Effects of reservoir distance on stream fish assemblages in the Great Plains. Kansas Chapter of the American Fisheries Society. February 14, 2004. Emporia, KS.
- Falke, J.A.**, and K. B. Gido. 2003. Effects of reservoir distance on stream fish assemblages in the Great Plains. Midwest Fish and Wildlife Conference. December 8, 2003. Kansas City. MO.
- Falke, J.A.** 2002. Bioenergetics of walleye (*Stizostedion vitreum*) in three central Arizona reservoirs. Arizona/Nevada Academy of Science. April 13, 2002. Glendale, AZ.

GUEST LECTURES:

"Ecological futures for Great Plains stream fishes" Fish Conservation (FW400), Colorado State University, April 7, 2008. Dr. Kurt Fausch, Instructor.

"Fisheries conservation on the Great Plains: survival in a harsh environment" Fisheries Science (FW401), Colorado State University, December 4, 2007. Mr. Daniel Gibson-Rheinemer, Instructor.

"Fisheries conservation on the Great Plains: survival in a harsh environment" Fisheries Science (FW401), Colorado State University, December 4, 2006. Dr. Brett Johnson, Instructor.