Curriculum Vita
December 2024

Instructor: Dr. Jeffrey G. Kopachena,
Professor of Behavioral Ecology and Wildlife Ecology

Academic Department: Department of Biological and Environmental Sciences

University Address: Department of Biological and Environmental Sciences
Keith D. McFarland Science Building
Texas A&M University-Commerce
PO Box 3011
Commerce, TX 75429-3011

University Email Address: Jeff.Kopachena@tamuc.edu

EDUCATION

Ph.D. Zoology,
University of Toronto, Toronto, Ontario, Canada
Major Subject: Behavioral Ecology
Minor Subject: Wildlife Ecology
Graduated May, 1992

M.Sc. Zoology,
University of Manitoba, Winnipeg, Manitoba, Canada
Major Subject: Behavioral Ecology
Minor Subject: Statistics
Graduated May, 1986

B.Sc. (maj) Zoology,
University of Manitoba, Winnipeg, Manitoba, Canada
Graduated May, 1982

TEACHING EXPERIENCE

Full Professor - Department of Biological and Environmental Sciences, Texas A&M University – Commerce, Commerce, Texas, U.S.A. June 2009 – present.

Senior Graduate Faculty Member – School of Graduate Studies, Texas A&M University - Commerce, Commerce, Texas, U.S.A. March 2003 – present.

Associate Professor - Department of Biological Sciences, Texas A&M University - Commerce, Commerce, Texas, U.S.A. Aug. 2002 – June 2009.

Assistant Professor - Department of Biological Sciences, Texas A&M University - Commerce, Commerce, Texas, U.S.A. Aug. 1994 – 2002.

Adjunct Professor of Biology, Queen's University, Department of Biology, Kingston, Ontario, Canada. May 1994 – May 1996.

Assistant Professor of Biology, Augustana University College, Camrose, Alberta. Sept. 1993 - May 1994. (9-month appointment).

PUBLICATIONS

Scott, A. and Kopachena, J.G. 2024. Eggs of monarch butterflies (*Danaus plexippus*) and queen butterflies (*Danaus gilippus*) in northern Texas cannot be distinguished in the field based on external morphology. The Southwestern Naturalist 68(1): 62-65.

Hudman, K.L., Stevenson, M. Contreras, K, Scott, A. and Kopachena J.G. 2023. Experimental suppression of Red Imported Fire Ants (*Solenopsis invicta*) has little impact on the survival of eggs to third instar of spring-generation Monarch Butterflies (*Danaus plexippus*) due to buffering effects of host-plant arthropods. Diversity 15(3): 331. https://doi.org/10.3390/d15030331

Scott, A., Contreras, K., Stevenson, M., Hudman, K, and Kopachena, J.G. 2022. Survival of eggs to third instar of late-summer and fall-breeding monarch butterflies (*Danaus plexippus*) and queen butterflies (*Danaus gilippus*) in north Texas. Journal of Insect Conservation (2022): 1-16. https://doi.org/10.1007/s10841-022-00446-8

Belcher, B.C. and Kopachena, J.G. 2022. Effects of mowing and prescribed fire on an invasive population of *Scabiosa atropurpurea* (Dipsacaceae) in north-central Texas. The Southwestern Naturalist 65(3-4): 258-265.

Stevenson, M., Hudman, K.L., Scott, A., Contreras, K. and Kopachena, J.G. 2021. High Survivorship of First-Generation Monarch Butterfly Eggs to Third Instar Associated with a Diverse Arthropod Community. Insects 12, no. 6: 567. https://doi.org/10.3390/insects12060567

Gurley, W and Kopachena, J.G. 2015. Reproductive success of syntopic nesting barn swallows and cave swallows in northeast Texas. The Southwestern Naturalist 60(1): 61-64.

Falls, J. B. and J. G. Kopachena (2020). White-throated Sparrow (*Zonotrichia albicollis*), version 1.0. In Birds of the World (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, NY, USA. https://doi.org/10.2173/bow.whtspa.01

Falls, J. B. and J. G. Kopachena. 2010. White-throated Sparrow (*Zonotrichia albicollis*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology.

Sinha, A., J.G. Kopachena, and J. Eidson. 2010. Plant diversity in an imperiled gammagrass community in northeastern Texas. Southwestern Naturalist 55: 254-262.

Turner, K.T. and J.G. Kopachena. 2009. Breeding biology of the barn swallow in northeast Texas with temporal and geographic comparisons to other North American Studies. Texas Journal of Science 62(2): 131-146.

Kopachena, J.G., Cochran, B.L., and Nichols, T.B. 2007. The incidence of American swallow bugs (*Oeciacus vicarius*) in barn swallow (*Hirundo rustica*) colonies in northeast Texas. Journal of Vector Ecology 32 (2): 280-284.

Kopachena, J.G. 2003. Waste oil from Automobiles. In Ragsdale, D. and Breclaw, E. (Eds.). Field Activities in Biology. Holt, Rinehart, and Winston Co., Austin, Texas.

Kopachena, J.G., A.J. Buckley, and G.A. Potts. 2000. Effects of the American Swallow Bug (*Oeciacus vicarius*) on reproductive success in the Barn Swallow (*Hirundo rustica*). Texas Journal of Science 52: 33-47.

Kopachena, J.G., A.J. Buckley, and G.A. Potts. 2000. Effects of the Red Imported Fire Ant (*Solenopsis invicta*) on reproductive success of Barn Swallows (*Hirundo rustica*) in northeast Texas. The Southwestern Naturalist 45: 475-482.

Kopachena, J.G. and C.J. Crist. 2000. Micro-habitat features associated with Painted and Indigo Buntings in northeast Texas. Texas Journal of Science 52: 133-144.

Kopachena, J.G. and C.J. Crist. 2000. Macro-habitat features associated with Painted and Indigo Buntings in northeast Texas. Wilson Bulletin 112: 108-114.

Kopachena, J.G. and Kollar, C.S. 1999. A herpetological survey of three old-field sites at Cooper Lake. Texas Journal of Science 51:211-224.

Falls, J.B., and Kopachena, J.G. 1994. White-throated Sparrow (*Zonotrichia albicollis*). In Birds of North America, No. 128 (A. Poole and F. Gill, Eds.). Philadelphia: The Academy of Natural Sciences; Washington, D.C.: The American Ornithologists Union.

Kopachena, J.G. and Falls, J.B. 1993. Post-fledging parental care in the White-throated Sparrow (*Zonotrichia albicollis*). Canadian Journal of Zoology 71: 227-232.

Kopachena, J.G. and Falls, J.B. 1993. Re-evaluation of morph-specific variations in parental behaviour of White-throated Sparrows. Wilson Bulletin 105: 48-59.

Kopachena, J.G. and Falls, J.B. 1993. Aggressive performance as a behavioral correlate of plumage polymorphism in the White-throated Sparrow (*Zonotrichia albicollis*). Behaviour 124: 249-266.

Kopachena, J.G. 1991. Food dispersion, predation, and the relative advantage of colonial nesting. Colonial Waterbirds 14: 7-12.

Kopachena, J.G. and Falls, J.B. 1991. An experimental study of brood division in white-throated sparrows. Animal Behaviour 42: 395-402.

Kopachena, J.G. and Evans, R.M. 1990. Flock recruitment in Franklin's Gulls. Colonial Waterbirds 13: 92-95.

Kopachena, J.G. 1987. Variations in the temporal spacing of Franklin's gull (*Larus pipixcan*) flocks. Canadian Journal of Zoology 65: 2450-2457.

Dickinson, T.E., Falls, J.B., and Kopachena, J.G. 1987. Effects of female pairing status and timing of breeding on nesting productivity in Western Meadowlarks (*Sturnella neglecta*). Canadian Journal of Zoology 65: 3093-3101.

RESEARCH GRANTS AND AWARDS

Major Grants only:

2017. Ecological role of Red Imported Fire Ants (*Solenopsis invicta*) and their influence on Monarch Butterfly (Danaus plexippus) egg and larval survival in northeast Texas. Texas Comptroller of Public Accounts, Office of Economic Growth and Endangered Species Management. $92,000.00.

2017. Pilot study on the potential role of Red Imported Fire Ants (*Solenopsis invicta*) on Monarch Butterfly (*Danaus plexippus*) reproductive recruitment in northeast Texas. Texas Comptroller of Public Accounts, Office of Economic Growth and Endangered Species Management. $10,141.04.

2009. Biology and control of urban Great-tailed Grackles. Dallas Urban Solutions Center, Texas AgriLife Extension Program. $60,000.00.

2009. Urban Control of Great-tailed Grackles. Texas A&M University – Commerce, Special funding from President's Office. $7000.00.

2008. NSF-S-STEM Grant Program. Scholarships and Research Experiences for Transfer Students to Excel in Science and Engineering. B. Jang (PI), M. Elam, J. Kopachena, B. Li (Co-PIs). $593,700.00.

1996 Isolation of genes responsible for sexual behavior in the White-throated Sparrow. Harry Frank Guggenheim Foundation Research Grant. $50,000.00