



**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