

CURRICULUM VITAE

NAME: Dr. Jeffrey G. Kopachena

CITIZENSHIP: Canadian,
Permanent Resident of U.S.A.

ACADEMIC ADDRESS: Department of Biological and Earth Sciences,
Texas A&M University - Commerce,
Commerce, TX 75429-3011, U.S.A.

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EDUCATION

Undergraduate Degree: B.Sc. (maj) Biology,
University of Manitoba,
Graduated May, 1982

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

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

POSTDOCTORAL EXPERIENCE

Queen's University, Department of Biology, Kingston, Ontario, Canada. Genetic research on behavioral and plumage polymorphisms in white-throated sparrows. With Dr. Fred Cooke and Dr. Jeanette Holden. April 1991 - August 1993.

PREVIOUS APPOINTMENTS

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

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.

CURRENT APPOINTMENTS

Department Head – Department of Biological and Environmental Sciences, Texas A&M University – Commerce, Commerce, Texas, U.S.A. July 2007 – present.

Associate Professor (Tenured) - Department of Biological Sciences, Texas A&M University - Commerce, Commerce, Texas, U.S.A. Aug. 2002 – present.

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

RESEARCH BACKGROUND

Current Research

1). Behavioral ecology of reproduction in the Barn Swallow (*Hirundo rustica*).

Current studies are designed to test alternate hypotheses on the causation and function of hatching asynchrony. Additional studies are looking at virus titers and host/parasite relationships between barns swallows and swallow bugs.

2) Ecology and conservation of birds in northeast Texas. Current projects include work on Bell's Vireos, Cave Swallows, and Interior Least Terns.

3) Ecology and population biology of Great-tailed Grackles. Study is aimed at developing a method of limiting urban nuisance populations of this species.

4) Function of the stabilimentum in *Argiope aurantia*. Study is designed to test the prey attraction hypothesis of the stabilimentum found in the webs of garden spiders..

Post-doctoral Research (April 1991 - August 1993) Queen's University, Kingston, Ontario, Canada

The genetic basis of polymorphism in the White-throated Sparrow (*Zonotrichia albicollis*).

Doctoral Research (April 1986 - May 1992)

Behavioral correlates of polymorphism and post-fledging parental care in the White-throated Sparrow (*Zonotrichia albicollis*).

Masters Research (April 1982 - May 1986)

Spatial and temporal aspects of flocking behavior in Franklin's Gulls (*Larus pipixcan*)

TECHNICAL SKILLS

1. Non-destructive sampling of avian tissues (skin biopsy, feather pulp, blood) for tissue culture and DNA analyses.
2. Culture of avian tissues (skin and feather fibroblasts, peripheral lymphocytes); cytogenetic procedures including karyotyping and staining (C, G, R, and Q banding).
3. Black and white photographic and darkroom techniques. Color digital imaging using digital camera, image software, and high resolution color printer.
5. Organization and management of ecological and behavioral field research. Experience includes spatial and temporal observations of birds along flight lines, manipulation of parental,

- aggressive, and territorial behavior, measurements of nestling and fledgling growth and survival, vegetation and habitat analyses, and territory mapping.
6. Handling and use of mist-nets and the organization of a banding program using aluminum and colored bands.
 7. Organization and management of captive breeding programs for passerine birds.
 8. Preparation of museum skins (birds and mammals) and skins as experimental models.
 9. Field recording of vocalizations using parabolic microphones and Uher, Nagra, or Sony recording equipment. Use of sound equipment for playback experiments and use of a Kay Digital Sonograph for making high resolution sonograms.
 10. Data management and analyses on personal computers using SAS, MS-Word, MS-Excel.
 11. Statistical analyses: linear and non-linear models, parametric and non-parametric tests, multivariate analyses, clustering and cladistic procedures.
 12. GIS/GPS: use of a Trimble GeoXT GPS unit to collect submeter accuracy shapefiles, Use of ArcView mapping software, data conversions, federal and state databases.

PUBLICATIONS

Full Journal Papers

- 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.
- Kopachena, J.G. 1987. Variations in the temporal spacing of Franklin's gull (*Larus pipixcan*) flocks. *Canadian Journal of Zoology* 65: 2450-2457.
- Kopachena, J.G. 1991. Food dispersion, predation, and the relative advantage of colonial nesting. *Colonial Waterbirds* 14: 7-12.
- 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 Evans, R.M. 1990. Flock recruitment in Franklin's Gulls. *Colonial Waterbirds* 13: 92-95.
- 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 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. and Kollar, C.S. 1999. A herpetological survey of three old-field sites at Cooper Lake. *Texas Journal of Science* 51:211-224.

- 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., 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*, in Press.

Book Chapters

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

Book Reviews

- Kopachena, J.G. 2003. Birds of the Texas Hill Country. *Quarterly Review of Biology* 78:241.

Manuscripts in Preparation

- Kopachena, J.G. and Potts, G. Intermittent incubation during the egg-laying period and its effect on hatching asynchrony in the Barn Swallow. To be submitted to *Condor*.
- Kopachena, J.G. and Strickland, K. A test of the egg viability hypothesis in the Barn Swallow. To be submitted to *Condor*.
- Kopachena, J.G., and Turner, K. Reproductive biology of the Barn Swallow in northeast Texas. To be submitted to *Texas Journal of Science*.
- Sinha, A. and Kopachena, J.G. A floristic survey of the Cowleech Prairie Preserve in Hunt Co., Texas. To be submitted to *Texas Journal of Science*.

Abstracts

- Kopachena, J.G. 1987. Spatial and temporal aspects of Franklin's gull flocks. *Proceedings of an International Symposium of the Colonial Waterbird Group and the Pacific Seabird Group. Studies in Avian Biology* 10: 81.

Theses

- Kopachena, J.G. 1986. Spatial and temporal aspects of flocking behaviour in the Franklin's Gull (*Larus pipixcan*). M.Sc. Thesis, University of Manitoba.
- Kopachena, J.G. 1992. Behavioral correlates of polymorphism and post-fledging parental care in the White-throated Sparrow (*Zonotrichia albicollis*). Ph.D. Thesis, University of Toronto.

Other

- Ortho Books Company. 1986. The Birds Around Us. Edited by Alice Mace and Edward Tsakaris. (Contributing author).
- Kraai, K.J. and Kopachena, J.G. 2001. Late winter feeding habits and condition of female mallards utilizing stock ponds in the oak woods/blackland prairie region of northeast Texas. Texas Parks and Wildlife 2001 Wildlife Research Highlights 5: 29.

Student Masters Theses

- Bilecki, T. 2003. A test of the insect attraction hypothesis as it relates to the stabilimenta of *Argiope aurantia* (Lucas). Masters Thesis, Texas A&M University – Commerce.
- Crist, C.J. 1998. An evaluation of habitat selection among Painted Buntings (*Passerina ciris*) and Indigo Buntings (*Passerina cyanea*). Masters Thesis, Texas A&M University - Commerce.
- Dees, D. 1998. The significance of spot patterns in the Convergent Lady Beetle. Masters Thesis, Texas A&M University - Commerce.
- Kraai, K. 2003. Late winter feeding habits, body condition, and feather molt intensity of female mallards utilizing livestock ponds in northeast Texas. Masters Thesis, Texas A&M University - Commerce.
- Mays, M.Y. 1998. A comparison of the karyotypes of *Junco hyemalis*, *Zonotrichia querula*, and *Zonotrichia leucophrys*. Masters Thesis, Texas A&M University - Commerce.
- Miersiovsky, Christy. 2005. Pollination ecology of Black-eyed Susans. Masters Thesis, Texas A&M University - Commerce.
- Potts, Gregory. 2002. Incubation patterns during egg-laying and their effects on hatching asynchrony in Barn Swallows. Masters Thesis, Texas A&M University - Commerce.
- Seo, Suk Ran. 2004. The diet of *Argiope aurantia*. Masters Thesis, Texas A&M University - Commerce.
- Sharma, Tulasi R. 2006. Habitat utilization, home range size and population size of Hispid Cotton Rat (*Sigmodon hispidus*) at the Cowleech Prairie Preserve in northeast Texas. Masters Thesis, Texas A&M University - Commerce.
- Strickland, K. 2002. A test of the egg viability hypothesis in Barn Swallows (*Hirundo rustica*). Masters Thesis, Texas A&M University - Commerce.
- Wakoson, A.H. 1996. Chromosomal polymorphism in white-throated sparrows. Masters Thesis, Texas A&M University - Commerce.
- Wilkinson, J.R.. 1997. Comparison of fecundity, longevity and larval viability in four lines of *Drosophila melanogaster*. Masters Thesis, Texas A&M University - Commerce.
- Williams, Vashunda Renee. 2001. A novel behavioral screen of *Drosophila melanogaster* mutants: Detection for avoidance of benzaldehyde. Masters Thesis, Texas A&M University - Commerce.

Student Honors Theses

- Ffradelis, S. 2002. A test of the tasty chick hypothesis in the barn swallow. Honors Thesis, Texas A&M University – Commerce.
- Healy, J.M. 1997. Distribution of arsenic residues at the Commerce, Texas, SuperFund Site. Honors Thesis, Texas A&M University - Commerce.
- Kollar, C.M. 1995. A herpetological survey of three degraded tall-grass prairie sites around Cooper Lake. Honors Thesis, East Texas State University.
- Miller, T.M. 1997. A study of movement patterns and basking behavior of a turtle population inhabiting a northeast Texas pond. Honors Thesis, Texas A&M University - Commerce.
- May, Heather. 2006. A herpetological survey of the Cowleech prairie. Honors Thesis, Texas A&M University - Commerce.
- Turner, K. 2007. Breeding biology of the barn swallow in northeast Texas and a test of Lack's Hypothesis. Honors Thesis, Texas A&M University - Commerce.

Student Theses (in progress)

- Cochran, Beverly. A test of the tasty chick hypothesis in the American Barn Swallow. Master's Thesis, expected date of completion: May 2008.
- Gurley, Wade. Nest site selection in Cave, Cliff, and Barn Swallows in northeast Texas. Master's Thesis, expected date of completion: May 2010.
- Salinas, Anna. Ecology and reproduction of Bell's Vireos in northeast Texas. Master's Thesis, expected date of completion: May 2010.

CONFERENCE PRESENTATIONS

- Cochran, B.L., Kopachena, J.G. and Miskevich, F. 2007a. Preliminary Analysis of the Tasty Chick Hypothesis as it Applies to Broods of the American Barn Swallow (*Hirundo rustica erythrogaster*). Proceedings of the 110th Annual Meeting of the Texas Academy of Science, 1 March - 3 March, 2007, Baylor University, Waco, TX.
- Cochran, B.L., Kopachena, J.G. and Miskevich, F. 2007b. Preliminary Analysis of the Tasty Chick Hypothesis as it Applies to Broods of the American Barn Swallow (*Hirundo rustica erythrogaster*). Sigma Xi Student-Faculty Research Forum, 26 April 2007, Texas A&M University - Commerce, Commerce, TX.
- Crist, C.J., and Kopachena, J.G. 1998. An evaluation of gross habitat features around the song perches of Indigo and Painted Buntings in Northeast Texas. Proceedings of the 101st annual meeting of the Texas Academy of Science, 5 March - 7 March, 1998, The University of Texas at Tyler, Tyler, TX.
- Crist, C.J., and Kopachena, J.G. 1997. A comparison of habitat selection by male Painted and Indigo Buntings. Proceedings of the 100th annual meeting of the Texas Academy of Science, 6 March - 8 March, 1997, Sam Houston State University, Huntsville TX.
- Crist, C.J., and Kopachena, J.G. 1997. A comparison of habitat selection by male Painted and Indigo Buntings. Annual District Convention of the Tri-Beta Biological Honours Society, 12 April - 14 April, 1997, University of Oklahoma Field Station, Lake Texoma, Oklahoma.

- Fulmer, J.R., Lee, D.R., and Kopachena, J.G. 1998. A microbiological study of *in vitro* soil and water microhabitats of ponds using a Winogradsky method. Proceedings of the 101st annual meeting of the Texas Academy of Science, 5 March - 7 March, 1998, The University of Texas at Tyler, Tyler, TX.
- Healy, J.M., and Kopachena, J.G. 1997. Distribution of arsenic residues at the Commerce, Texas, SuperFund site. Proceedings of the 100th annual meeting of the Texas Academy of Science, 6 March - 8 March, 1997, Sam Houston State University, Huntsville TX.
- Healy, J.M., and Kopachena, J.G. 1997. Distribution of arsenic residues at the Commerce, Texas, SuperFund site. Annual District Convention of the Tri-Beta Biological Honours Society, 12 April - 14 April, 1997, University of Oklahoma Field Station, Lake Texoma, Oklahoma.
- Kennedy, M., Price, D.M., Betts, J.G., and Kopachena, J.G. 1996. Analysis of biomass and productivity of the goldenrod (*Solidago sp.*). Annual District Convention of the Tri-Beta Biological Honours Society, 12 April - 14 April, 1996, University of Oklahoma Field Station, Lake Texoma, Oklahoma.
- Kollar, Cynthia M., and Kopachena, Jeffrey G. 1996. A herpetological survey of three degraded tall-grass prairies around Cooper Lake. Proceedings of the 99th annual meeting of the Texas Academy of Science, 29 February - 2 March, 1996, Texas A&M University at Galveston, Galveston TX. p. 124.
- Kollar, Cynthia M., and Kopachena, Jeffrey G. 1996. A herpetological survey of three degraded tall-grass prairies around Cooper Lake. National Council on Undergraduate Research Meeting, University of North Carolina at Asheville, Asheville, North Carolina.
- Kollar, Cynthia M., and Kopachena, Jeffrey G. 1996. A herpetological survey of three degraded tall-grass prairies around Cooper Lake. Annual District Convention. Beta Beta Beta Biological Honours Society, University of Oklahoma Field Station, Oklahoma.
- Kopachena, J.G. 1985. Spatial and temporal aspects of Franklin's gull flocks. Special Symposium: The ecology and behavior of gulls. Joint Meeting of the Colonial Waterbird Group and the Pacific Seabird Group. 6 December 1985, San Francisco, California.
- Kopachena, J.G. 1995. Polymorphisms in White-throated Sparrows (*Zonotrichia albicollis*) - genetically based reproductive strategies? Proceedings of the 98th annual meeting of the Texas Academy of Science, 3 March, 1995, Baylor University, Waco, TX.
- Kopachena, Jeffrey G. 1996. Physical correlates of nest departure in a ground-nesting bird: the white-throated sparrow *Zonotrichia albicollis*. Proceedings of the 99th annual meeting of the Texas Academy of Science, 29 February - 2 March, 1996, Texas A&M University at Galveston, Galveston TX.
- Kopachena, J.G. and Falls, J.B. 1988. Post-fledging parental care in the white-throated Sparrow. Ontario Ethology and Ecology Colloquium. 18 April 1988, University of Western Ontario, London, Ontario.
- Kopachena, J.G. and Falls, J.B. 1989. Behavioral correlates of polymorphism in the White-throated Sparrow. Ontario Ethology and Ecology Colloquium. 15 April 1989, Queen's University, Kingston, Ontario.
- Kopachena, J.G. and Falls, J.B. 1989. Behavioral correlates of polymorphism in the White-throated Sparrow. 101st Stated Meeting, American Ornithologists Union. 9 August 1989, Pittsburgh, Pennsylvania.
- Kopachena, J.G., Buckley, A.J., and Potts, G.A. 1999. Effect of the American Swallow Bug (*Oeciacus vicarius*) on reproductive success in the Barn Swallow. Proceedings of the 102nd

- annual meeting of the Texas Academy of Science, 4 March - 6 March, 1999, Texas Lutheran University, Seguin, Texas.
- Kopachena, J.G., Robinson, K.E., Wing, M., Cooke, F., and Holden, J.J.A. 1993. Characterization of a chromosomal polymorphism with phenotypic effect in the White-throated Sparrow (*Zonotrichia albicollis*). Annual Meeting of the Genetics Society of Canada. 11-14 June 1993, Lac Du Lage, Quebec.
- Simpson, E.M. and Kopachena, J.G. 2001. A test of the nest protection hypothesis in the Eastern Phoebe (*Sayornis phoebe*). Proceedings of the 104th annual meeting of the Texas Academy of Science, 2 March - 3 March, 2001, Southwest Texas State University, San Marcos, Texas.
- Wilkinson, J.R., and Kopachena, J.G. 1997. Comparison of fecundity, longevity and larval viability in *Drosophila*. Proceedings of the 100th annual meeting of the Texas Academy of Science, 6 March - 8 March, 1997, Sam Houston State University, Huntsville TX.

POSTER PRESENTATIONS

- Nichols, Tammy B. and Kopachena, J.G. 2006. The incidence of American Swallow Bugs in Barn Swallows in northeast Texas. 41st Texas Chapter of The Wildlife Society Annual Meeting, South Padre Island, February 16-18, 2006.
- Richardson, Jade M., Flanders, A.A., Kopachena, J.G., and Harp, D.A. 2006. Analyses of Soil Properties Associated with Nest Sites in Interior Least Terns. 41st Texas Chapter of The Wildlife Society Annual Meeting, South Padre Island, February 16-18, 2006.
- Rogers, Heather A., and J.G. Kopachena. 2006. A herpetological survey of the Cowleech Prairie Preserve in northeast Texas. 41st Texas Chapter of The Wildlife Society Annual Meeting, South Padre Island, February 16-18, 2006.
- Salinas, Anna M., Flanders, A.A., and Kopachena, J.G. 2006. Breeding ecology and management of Interior Least Terns on a northeast Texas reservoir. 41st Texas Chapter of The Wildlife Society Annual Meeting, South Padre Island, February 16-18, 2006.
- VanCleve, M. and Kopachena, J.G. 2007a. Screening of American Swallow Bugs (*Oeciacus vicarius*) inhabiting the nests of Barn Swallows (*Hirundo rustica*) for arbovirus. Annual District Convention. Beta Beta Beta Biological Honours Society, University of Oklahoma Field Station, Oklahoma, March 31, 2007.
- VanCleve, M. and Kopachena, J.G. 2007b. Screening of American Swallow Bugs (*Oeciacus vicarius*) inhabiting the nests of Barn Swallows (*Hirundo rustica*) for arbovirus. Sigma Xi Student-Faculty Research Forum, 26 April 2007, Texas A&M University - Commerce, Commerce, TX.

INVITED LECTURES

- Evidence for the optimization of parental care. Queen's University Biological Seminar Series, March, 1990. Queen's University, Kingston, Ontario.
- Polymorphism and secondary sex characters in White-throated Sparrows. Sigma Xi, Bi-annual Dinner, October, 1994. East Texas State University, Commerce, Texas.

Sex and polymorphism in White-throated Sparrows. Biology Seminar Series, October 11, 1997.
Texas Women's University, Denton, Texas.

Breeding Habitats of Painted and Indigo Buntings in Northeast Texas. College of Arts and Sciences
Lunch Hour Colloquium Series, November 9, 1999. Texas A&M University – Commerce,
Commerce, Texas.

PROFESSIONAL REVIEWING

Chapter 13: Biological Resources, pp. 260-282. *In* Cunningham, W.P and Saigo, B.W. 1995.
Environmental Science, 3rd edition. Wm.C. Brown Publishers, Dubuque, IA., U.S.A.

Professional Reviewer for Journal of Field Ornithology's "Current Literature". Published by the
Association of Field Ornithologists, 810 E. 10th St., Lawrence, KS 66044.

Manuscript reviewer for Journal of Field Ornithology.

Manuscript reviewer for Texas Journal of Science.

Vertebrate Biology, Chapter 4: Reptiles, Birds, and Mammals; Chapter 16. Intraspecific behavior
and ecology. By D Linzey (M. Kemp, Ed.), WCB/McGraw-Hill, Dubuque, IA 52001,
December 1998.

Great Texas Birds, by John P. O'Neill, Edited by Suzanne Winckler. Austin (Texas): University of
Texas Press. Reviewed at request from Quarterly Review of Biology.

Birds of the Texas Hill Country, By Mark W. Lockwood, forward by Terry Maxwell, drawings by
Clemente GuzmanIII. Austin (Texas): University of Texas Press. Reviewed at request
from Quarterly Review of Biology.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Academy for Educator Development. Regular Member

American Ornithologists Union. Regular Member

Association of Field Ornithologists Regular Member

Beta Beta Beta, Biological Honors Society.

Cooper Ornithological Society. Regular Member

Sigma Xi, The Scientific Research Society. Chapter Vice President

The Texas Academy of Science. Regular Member

The Texas Chapter of The Nature Conservancy

The Wildlife Society

Wilson Ornithological Society. Regular Member

SCHOLARSHIPS AND FELLOWSHIPS

Connaught Doctoral Scholarship - 1986 to 1988. Stipend plus academic fees.

Ontario Graduate Scholarship - 1989.

University of Toronto Open Fellowship - 1989. Declined in favor of OGS (above).

RESEARCH GRANTS

Harry Frank Guggenheim Foundation Research Grant - 1994 - 1996. Salary for laboratory technologist.

East Texas State University, Faculty Research Grant - 1995 (Equipment Grant)

East Texas State University Mini Research Grant - Fall 1994

East Texas State University Mini Research Grant - Spring 1995

East Texas State University Mini Research Grant - Fall 1995

Texas A&M University Commerce, Mini Research Grant - Fall 1996.

Texas A&M University Commerce, Mini Research Grant - Spring 1997.

Texas A&M University Commerce, Faculty Research Grant - 1997 (Equipment Grant)

Texas A&M University Commerce, Mini Research Grant - Spring 1998.

Texas A&M University Commerce, Mini Research Grant - Spring 1999.

Texas A&M University Commerce, Faculty Research Grant - 2000 (Equipment Grant)

Texas A&M University Commerce, Mini Research Grant - Fall 2000.

Texas A&M University Commerce, Faculty Research Grant - 2001 (Equipment Grant)

Texas A&M University Commerce, Mini Research Grant - Fall 2001.

Texas A&M University Commerce, Faculty Development Grant – Fall 2001.

Texas A&M University Commerce, Mini Research Grant – Spring 2002.

Texas A&M University Commerce, Faculty Development Grant – Spring, 2003.

Texas A&M University Commerce, Mini Research Grant – Spring 2003.

Texas A&M University Commerce, Faculty Development Grant – Spring, 2004

Texas A&M University Commerce, Faculty Travel Grant – Spring, 2005

Texas A&M University Commerce, Faculty Development Grant – Spring, 2006

Texas A&M University Commerce, Mini Research Grant – Spring 2007

ACADEMIC AND PROFESSIONAL RECOGNITION (PERSONAL)

Honors Professor of the Year, 1997. Texas A&M University - Commerce.

Best Faculty Presentation, 2002. 2002 Texas A&M University - Commerce Annual Sigma Xi Student/Faculty Research Symposium

Kappa Alpha Teacher of the Month, April 2002. Texas A&M University – Commerce.

ACADEMIC AND PROFESSIONAL RECOGNITION (MENTORED STUDENTS)

Foundation Research Grant. Tri-Beta Biological Honours Society – awarded December 1995, to Juliet Healy for arsenic research project.

Graduation with Highest Honours. Awarded December, 1995, to C.M. Kollar, for herpetology project.

Foundation Research Grant. Tri-Beta Biological Honours Society – awarded December 1996, to Terri Miller for turtle project.

First place, Graduate Student Presentation Competition. Annual District Convention of the Tri-Beta Biological Honours Society – awarded April 1997, to Chris Crist for bunting research presentation.

Best Undergraduate Presentation. Awarded to Juliet Healy for arsenic research presentation. Annual Sigma Xi Student Forum, April 1997.

Second Place, Graduate Presentation. Awarded to Chris Crist for bunting research presentation. Annual Sigma Xi Student Forum, April 1997.

Foundation Research Grant. Tri-Beta Biological Honors Society – awarded December 1999 to Robert Cloud for ladybug research.

Foundation Research Grant. Tri-Beta Biological Honors Society – awarded December 2000 to Curtis Lane for ladybug research.

Foundation Research Grant. Tri-Beta Biological Honors Society – awarded November 2001 to Shayne Ffredelis for barn swallow research.

Best Undergraduate Presentation. Awarded to Shayne Ffredelis for barn swallow research presentation. 2002 Texas A&M University Commerce Annual Sigma Xi Student/Faculty Research Symposium.

Second place, Graduate Student Presentation Competition. Awarded to Kim Strickland for barn swallow research presentation. 2002 Texas A&M University Commerce Annual Sigma Xi Student/Faculty Research Symposium.

Second Place, Graduate Student Poster Competition. Awarded to Tammy Nichols for barn swallow research presentation. 41st Texas Chapter of The Wildlife Society Annual Meeting, South Padre Island, February 16-18, 2006.

Third Place, Texas Academy of Science Annual Student Research Award Competiton. Awarded to Beverly Cochran for barn swallow research proposal. The 109th Annual Meeting of the Texas Academy Science. March 2 – 4, 2006, Lamar University, Beaumont, Texas.

Third Place, Texas A&M Commerce Sigma Xi Chapter. Awarded to Anna Salinas for Interior Least Tern poster. Fifth Annual Student/Faculty Research Symposium, April 20th, 2006, Texas A&M University – Commerce, Commerce, Texas.

STUDENT MENTORSHIP

Academic advisor for the Texas A&M University – Commerce chapter of the Wildlife Society. 2003 to present.

Academic advisor for the Delta Gamma Chapter of Beta Beta Beta Biological Honors Society at Texas A&M University – Commerce. 1997-2002.

CURRENT TEACHING DUTIES

Behavioral Ecology (BSc 410/532) - 1 semester, senior year and graduate.
Topics: A study of the evolutionary and ecological aspects of animal behavior.

Ecological Genetics (BSc 512) – 1 semester, graduate.
Topics: Population genetics and the ecological contexts of population genetic processes.

Ecology (BSc 307) - Lecture and lab, 1 semester, junior year.
Topics: Energy and matter flow through ecosystems, community structure, niche dynamics and species interactions, population dynamics.

Evolutionary Biology (BSc 414/510) - 1 semester, senior year and graduate.
Topics: Evolutionary theory, natural selection, genetic variation, speciation, isolating mechanisms.

Geospatial Mapping (BSc 417) – 1 semester, senior year.

Topics: GIS, geographic coordinates systems, map projections, symbology, GPS applications.

Human Biology (BSc 106) – Lecture and lab, 1 semester, freshman non-majors.
 Topics: Scientific method and the philosophy of science, ecology, human evolution, human sociobiology, human impacts on the environment.

Methods in Field Biology (BSc 497/511) - 1 semester, senior year and graduate.
 Topics: Ecological methods for mapping habitat, measuring community structure, conducting inventories, and developing management plans. University Studies course for non-majors.

Our Endangered Planet (BSc 320) - 1 semester, junior year.
 Topics: Deforestation, water pollution and management, agriculture and productivity, human population pressures, biodiversity issues, sustainable development, waste management, and other local, regional, and global issues. University studies capstone course for upper level non-majors.

Ornithology (BSc 402) - 1 semester, senior year and graduate.
 Topics: Physiology, anatomy, behavior, ecology, and systematics of birds.

Vertebrate Biology (BSc 404/534) - 1 semester, senior year and graduate.
 Topics: Vertebrate evolution and diversity.

Comparative Vertebrate Anatomy (BSc 422) - 1 semester, senior year.
 Topics: Vertebrate structure and function, based on lectures and dissections.

Wildlife Management II (Ag/BSc 336) – 1 semester, sophomore year.
 Topics: Relationships between wildlife and physical environment, habitat management, role of preserves and refuges, economics of wildlife management.

PRIOR TEACHING DUTIES

Environmental Biology - Lecture and lab, 1 semester, sophomore year.
 Ecological principles, environmental impacts on atmospheric, aquatic, and terrestrial systems.

Environmental Ethics - 1 semester, senior year, Honors Capstone course. Influences of science, culture, economics, religion, and esthetics on the ethics of environmental perspectives and decision making.

Genetics (BSc 204) - Lecture and lab, 1 semester, sophomore.
 Topics: Mendelian genetics, gene linkage and chromosome mapping, chemical structure and DNA replication, mutation and DNA repair, regulation of gene activity, population genetics.

Human Biology - Lecture and lab, 1 semester, freshman year.
 Topics: Basic Human anatomy and physiology. Course for non-majors.

Human Ecology - Lecture and lab, 1 semester, sophomore year.
 Human origins, evolution, population biology. Course designed for non-majors.

TEACHING ASSISTANTSHIPS

Institution	Course	Supervisor	Date
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Univ. Manitoba	Intro. Biology	Dr. L. Graham	09/82 - 04/86
Univ. Manitoba	Chordate anatomy and evolution	Dr. K.W. Stewa	09/82 - 04/86
Univ. Manitoba	Animal Behavior	Dr. R.M. Evans	01/84 - 04/86
Univ. Toronto	Vertebrate Anatomy	Dr. T.S. Parson	09/86 - 04/88
Univ. Toronto	Intro. Biology	Dr. C. Goldman	09/88 - 04/89
Univ. Toronto	Animal Ecology	Dr. J.B. Falls	09/88 - 04/91

CURRENT MEMBERSHIP ON UNIVERSITY COMMITTEES

- Director: Texas A&M University - Commerce Wildlife and Conservation Science program. Duties are to administer and oversee the Wildlife and Conservation Science program offered jointly by the departments of biology and agriculture. Fall 2003 to present.
- Member: Texas A&M University Library Committee. Duties are to review library activities, develop future library plans, and review acquisitions policies. Fall 2004 to present.
- Member: Institutional Animal Care and Use Committee. Duties are to oversee institutional policies regarding the use of live animals and to approve of educational and research protocols. Fall 2005 to present.
- Member: Texas A&M University – Commerce Promotion and Tenure Committee. Duties are to review applications for tenure and promotion and make recommendations based on those applications. Fall 2004 to present.
- Member: Texas A&M University – Commerce Honors Council. Duties are to review honor theses proposals, serve on Honors thesis defenses, and develop honors program policy. Fall 2004 to present.
- Member: Texas A&M University – Commerce Graduate Council. Duties are to review graduate school policies and procedures, evaluate graduate programs, develop methods to improve graduate school services. Fall 2005 to present.
- Chair: Texas A&M University – Commerce Administration Committee of the Graduate Council. Duties are to review and revise graduate procedures. Fall 2005 to present.
- Chair: Dept. of Biology and Earth Sciences Graduate Program Committee. Duties are to develop a revised MS program in Biology, develop graduate admission standards, review graduate applications to the department. Fall 2006 to present.

PRIOR COMMITTEE MEMBERSHIPS

- 1995 – 1996 Member: Dean of Arts and Science Search Committee
- 1995 – 1998 Member: Texas A&M University - Commerce Honors Committee. Duties are to vote on the approval of honors thesis proposals and participate in honors student thesis defenses.
- 1997 Member: Physical and Analytical Chemist Search Committee
Member: Biological and Earth Science Department Head Search Committee

- 1997 – 1998 Chair: Biological and Earth Science Department Physiologist Search Committee
- 1998 – 1999 Chair: Biological and Earth Sciences Department Botanist Search Committee.
- 1999 – 2000 Chair: Biological and Earth Sciences Department Biologist Search Committee.
Member: College of Arts and Sciences Academic Programs Taskforce.
Member: College of Arts and Sciences College Reorganization Advisory Committee.
- 1998 – 2000 Joint Chairperson: Department of Biological and Earth Sciences Environmental Science Program Development Committee.
- 1999 – 2002 Member: Graduate Council. Duties are to review graduate programs and make provisions for on-going research and academic endeavors in the Graduate School.
- 2000 – 2002 Chair: Graduate Committee on Curriculum. Duties are to review curriculum changes suggested by departments within the Graduate School and improve the efficiency and delivery of graduate programs.
- 2001 – 2002 Member: Texas A&M University SACS 5A Committee. Duties are to review academic facilities, libraries, and labs for compliance to SACS accreditation criteria.
- 2003 – 2005 Member: Texas A&M University new science building committee. Duties were to determine facilities needed for a new science building to be constructed on campus.
- 2006 (Spring) Vice Chair: Texas A&M University – Commerce Graduate Council. Duties were to convene meetings of the graduate council when the chair was unable to. Spring 2006.

PROFESSION-RELATED COMMUNITY SERVICES

- 1995 – 1998 Rains County Eagle Fest – Professional Guide and Eagle Spotter. Annual event each January
- 2003 – present Cooper Lake midwinter Bald Eagle survey (sponsored by Texas Parks and Wildlife Dept.)
- 2004 – present Member of Board of Advisors for Kids Environmental Education Project.
- 2004 – present Member of Board of Directors for the Sweeney Environmental Education Center at Boles ISD.
- 2005 – present East Texas Black Bear Task Force (sponsored by Texas Parks and Wildlife Dept.)
- 2005 – present East Texas Rare Bat Working Group (sponsored by Texas Parks and Wildlife Dept.)

RELATED EXPERIENCE

Research Assistant, April 1981 - August 1981. Worked under Dr. R.M. Evans, Dept. of Zoology, University of Manitoba. Laboratory studies of behavior in gull chicks. Duties included

design and construction of rearing pens and test arenas, incubation and rearing of chicks, banding White Pelican chicks at a breeding colony, and collection of behavioral data.
Research Assistant, April 1985 - July 1985. Worked under Dr. J.B. Falls, A. Horn, and T.E. Dickinson, Dept. of Zoology, University of Toronto. Field studies on the functions of song and other vocalizations in Western Meadowlarks. Duties included mapping territories, recording vocalizations, conducting playback experiments, finding nests, and measuring nest and territory parameters.
Consultant, January 1986 - March 1986. Hired by Ortho Books (Chevron Chemical Company). Worked as contributing author for 'The Birds Around Us' (1986, A. Mace, E. Tsakaris (eds.)).

REFERENCES:

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