

# DEAN A. WILLIAMS

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## Educational Background

2000 Ph.D. Ecology, Purdue University, West Lafayette, IN  
 1991 M.S. Biology, University of Alabama in Huntsville, Huntsville, AL  
 1988 B.A. with honors, Biology, Coe College, Cedar Rapids, IA  
 1985 A.A. Kirkwood Community College, Cedar Rapids, IA

## Year of Appointment to the University and Rank

2019 – present Professor, Department of Biology  
 2013 – 2019 Associate Professor, Department of Biology  
 2007 – 2013 Assistant Professor, Department of Biology

## Previous Teaching and Research Appointments

2005 – 2007 Assistant Scientist, Rosenstiel School of Marine & Atmospheric Science, University of Miami, FL  
 2004 – 2005 DNA Core Facility Supervisor, Postdoctoral Associate, and Instructor, Department of Biology, University of Miami, FL  
 2001 – 2004 Postdoctoral Associate, Department of Biology, University of Miami, FL  
 2001 Instructor, Purdue University, W. Lafayette, IN

## Teaching Responsibilities

### At TCU

- BIOL 10003 Contemporary Issues in Biology
- BIOL 30403 Ecology and the Environment
- BIOL 40021 Introduction to Biological Research
- BIOL 40153/60153 Conservation Genetics
- BIOL 40163/60163 Avian Biology
- BIOL 50903 Tropical Biology

### Elsewhere

- BIL 104 Genetics and Society (University of Miami, FL)
- BIL 151 Introductory Biology Laboratory (Howard Hughes Medical Institute Freshman Research Lab) (University of Miami, FL)
- AP Environmental Science Workshop (Purdue University)

## External Support

- a. Received (Total received at TCU \$444,609)
  - 2020-2022: USACE. Molecular survey for a recently introduced genotype of hydrilla (*Hydrilla verticillata* L.f. Royle) in the United States. \$83,525

- 2017: Wildlife Diversity Conservation Grant (Texas Parks and Wildlife). Diet analyses of Texas horned lizards living in small towns. \$9,664.
- 2016 – 2017: USACE. Improvement of biological control agents for the monoecious biotype of hydrilla in the United States. \$17,082.
- 2014 – 2015: USACE. Improvement of biological control agents for the monoecious biotype of hydrilla in the United States. \$9,000.
- 2014 – 2015: USDA. Quarantine risk assessment studies for classical biological control of Brazilian pepper. With GS Wheeler. \$20,000.
- 2013 – 2014: USACE. Improvement of biological control agents for the monoecious biotype of hydrilla in the United States. \$24,000.
- 2012: Rufford Small Grants Foundation. Developing a simple census method for endangered marine otters. With D. Biffi. \$9,000.
- 2009 – 2011: Florida Fish and Wildlife Conservation Commission. Detecting cryptic invasions of *Phragmites australis* in Florida waterways using genetic markers. With WA Overholt. \$30,200.
- 2006 – 2012: Florida Fish and Wildlife Conservation Commission, Florida Department of Environmental Protection, Osceola County, South Florida Water Management District, St. Johns Water Management District: Foreign exploration for natural enemies of *Hydrilla verticillata* in East Africa. With WA Overholt and JP Cuda. \$96,975 (\$73,175 to TCU).
- 2007 – 2011: USDA. Quarantine risk assessment studies for classical biological control of Brazilian pepper. With GS Wheeler and W Cabrera. \$80,000.
- 2009 – 2010: Florida Fish and Wildlife Conservation Commission. Genotype matching to select the most effective biological control agents of Brazilian peppertree. With WA Overholt. \$16,500.
- 2008 – 2009: Wildlife Diversity Conservation Grants, Horned Lizard License Plate Fund (Texas Parks and Wildlife). Conservation genetics of the Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$58,963.
- 2008 – 2009: Research Initiative Grant. Genotype matching to select the most effective biological control agents of Brazilian peppertree. University of Florida. With WA Overholt and JP Cuda. \$13,500.
- 2006 – 2008: Florida Department of Environmental Protection: *Dioscorea bulbifera*: Characterization of genetic diversity in Florida and exploration for natural enemies. With WA Overholt and MA Andreu (advisory role).
- 1997: Chicago Zoological Society: Genetics and viability of small tropical vertebrate populations. With KN Rabenold and MC Yaber. \$5,000.
- 1994: Sigma Xi Research Grant: Alternative routes to fitness in complex societies for young brown jays. \$375.
- 1994: American Museum of Natural History (Frank M. Chapman Fund Award): Alternative pathways to fitness in complex social groups. \$960.
- 1993: National Science Foundation Dissertation Improvement Grant (DEB93-11491): Fitness components and ontogenies in complex societies. With KN Rabenold. \$13,800.
- 1992 – 1995: Ruth Hindman Foundation Grant. \$6,000.
- 1989: Ruth Hindman Foundation Grant. \$1,500.
- 1989: American Museum of Natural History (Frank M. Chapman Fund Award): Coalition formation in a cooperatively breeding bird. \$400.
- 1989: Alabama Academy of Science Research Grant. \$250.

#### b. Not Received

- 2019 Texas Parks and Wildlife. Effects of diet on the suitability of captive-bred Texas horned lizards for reintroduction. \$10,000.
- 2018 MRI (NSF) Acquisition of an Illumina MiSeq at TCU. With MC Hale and MK Jeffries. \$207,338.
- 2017 MRI (NSF) Acquisition of an Illumina MiSeq at TCU. With MC Hale and MK Jeffries. \$207,338.
- 2016 (Paul M. Angell Family Foundation) Sustainable seafood initiatives in Peru: Testing assumptions and exploring their limitations. With M Weinburgh and D Biffi. \$13,474.

- 2016 NSF (Ecosystem Studies) Linkages between aquatic and terrestrial systems in the Southern Great Plains. MM Chumchal, RW Drenner, JH Kennedy, WH Nowlin, DA Williams. Submitted preliminary proposal (not invited for full proposal).
- 2014 Texas Parks and Wildlife. Status of Texas horned lizards living in small Texas towns. \$14,819.
- 2013 AFRI. Genetic variation and selection dynamics of native and introduced populations of the invasive weed Brazilian pepper *Schinus terebinthifolius*. \$84,631.
- 2013 AFRI. Effect of evolutionary change in the growth, defense and tolerance of the invasive tree Chinese tallow, *Triadica (=Sapium) sebifera* on biological control. \$50,159.
- 2012 NSF (Population and Community Ecology Cluster). Hybridization, herbivory and invasion success of Brazilian peppertree. DA Williams, W Overholt, JP Cuda, GS Wheeler, M Weinburgh, Z Deng, P Stansly, J Peña, BA Sellers. Submitted preliminary proposal (not invited for full proposal).
- 2011 AFRI. Developing Biological Control Technology for integrated management of cogongrass, *Imperata cylindrica* (Poaceae). With JP Cuda, WA Overholt, J Gillett-Kaufman, B Le Ru, O Onokpise. \$42,948.
- 2011 AFRI. Genetic variation and selection dynamics of native and introduced populations of the invasive weed Brazilian pepper *Schinus terebinthifolius*. With GS Wheeler, SJ Franks. \$86,384.
- 2011 Florida Fish and Wildlife Conservation Commission. Molecular characterization and exploration for natural enemies of cogongrass in East and southern Africa: A collaborative international project to discover and test new management options. With WA Overholt. \$30,000.
- 2011 Florida Fish and Wildlife Conservation Commission. Screening of a new candidate biological control agent of Brazilian peppertree (*Schinus terebinthifolius*). With JP Cuda and WA Overholt. \$18,000.
- 2011 Florida Fish and Wildlife Conservation Commission. Studies for classical biological control of Brazilian pepper. With GS Wheeler. \$20,000.
- 2011 NSF (Population and Community Ecology Cluster). Collaborative research on hybridization, herbivory and invasion success of Brazilian peppertree. With WA Overholt and JP Cuda. \$399,070.
- 2011 NSF (Population and Community Ecology Cluster). Current and historical determinants of genetic structure for cloud forest trees in Costa Rica. With JD Daniels. \$218,447.
- 2011 REU Site: Exposing Undergraduates to Science through Research in Ecology and Conservation Biology or Cellular and Molecular Biology. National Science Foundation. MM Chumchal and M Chumley – Co-PIs (G Akkaraju, RW Drenner, AM Hale, P Hartman, JD Horner, S McGillivray, M Misamore, DA Williams – Senior Personnel). \$203,200.
- 2010 T-STAR. Developing biological and chemical tools for the management of *Mikania micrantha* in Florida. With WA Overholt. \$35,000.
- 2009 USDA. Forest Service. Screening of a new candidate biological control agent of Brazilian peppertree. With JP Cuda. \$23,262.
- 2008 NASA. Biogeography, demography, metapopulation dynamics, and genetic differentiation of indicator tree species of Costa Rican elfin forests. With U Nair, AM Hale, J Daniels, and RO Lawton. \$129,177.
- 2007 NRI (National Research Initiative Competitive Grants Program). Use of genotype matching to select the most effective biological control agent of the highly invasive weed, *Schinus terebinthifolius*. With WA Overholt, JP Cuda, and GS Wheeler. \$495,000.

c. Internal Support (Total received at TCU \$116,044)

- 2020 SERC – J. Garvey – student research project. \$1,119.
- 2019 Andrews Institute of Mathematics & Science Education Research Grant – Thermal ecology of Texas horned lizards. \$2,000.
- 2019 RCAF – Thermal ecology of Texas horned lizards in small Texas towns. \$4,500.
- 2019 SERC – A. Chipps, T. Stevens, R. Alenius, M. Tucker, J. James, J. Joyce – student research projects. \$15,925.

- 2018 Andrews Institute of Mathematics & Science Education Research Grant – Foraging behavior of Texas horned lizards. \$2,100.
- 2018 RCAF – Is predation of Texas horned lizards lower in town than in natural areas? \$4,500.
- 2018 SERC – K. Scolman – student research project. \$1,483.
- 2017 Andrews Institute of Mathematics & Science Education Research Grant – Diet Analysis of Texas horned lizards living in two small Texas towns. \$2,028.
- 2017 SERC – T. Huynh, J. Yates – student research projects. \$2,700.
- 2016 Andrews Institute of Mathematics & Science Education Research Grant – Diet Analysis of Texas horned lizards living in two small Texas towns. \$2,027.
- 2016 RCAF – Texas horned lizard demography in small Texas towns. \$4,000.
- 2016 SERC – K Upton – student research project. \$2,345.
- 2015 SERC – A Alenius, K Scoggin, M Melton, A Trinh – student research projects. \$3,705.
- 2014 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into conservation efforts for the threatened Texas horned lizard. With AM Hale. \$2,500.
- 2014 RCAF – Demography of Texas horned lizards living in small towns. \$4,000.
- 2014 SERC – E Do, K Scoggin – student research projects. \$2,700.
- 2013 TCU IS – Status and movement patterns of Texas horned lizards living in urban areas. \$8,000.
- 2013 RCAF – Status and movement patterns of Texas horned lizards living in urban areas. \$4,000.
- 2013 SERC – T Campbell, S Fronk – student research projects. \$2,580.
- 2012 RCAF – Genetic basis of herbicide resistance in the invasive aquatic weed, *Hydrilla verticillata*. \$4,000.
- 2012 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into a conservation genetics study of the threatened Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$2,564.
- 2012 SERC – A Schildt – student research project. \$1,300.
- 2011 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into a conservation genetics study of the threatened Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$3,000.
- 2011 URCAI – L Langsjoen, C Granthon – student research projects. \$2,500.
- 2010 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into a conservation genetics study of the threatened Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$3,000.
- 2010 RCAF – Estimating the incidence of multiple paternity in a transplanted population of Kemp's Ridley sea turtles. \$2,000.
- 2009 RCAF – Genetic characterization of the critically endangered painted terrapin in captivity. \$4,000.
- 2009 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into a conservation genetics study of the threatened Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$3,000.
- 2009 JFSRP – Genetic characterization of the critically endangered painted terrapin in captivity (\$6,000 for summer salary).
- 2008 RCAF – Development of microsatellite DNA markers in the invasive Brazilian peppertree, *Schinus terebinthifolius*. \$4,000.
- 2008 Andrews Institute of Mathematics & Science Education Research Grant – Incorporating K-12 outreach into a conservation genetics study of the threatened Texas horned lizard, *Phrynosoma cornutum*. With AM Hale. \$3,000.
- 2008 SERC – C Leach, K Ruiz-Roehrs – student projects. \$3,000.
- 2007 URCAI – C Leach, M Fleischer – student research projects. \$2,468.

### Graduate Theses Directed

1. Patrick Ryan (MS in progress) Thermal habitat selection of reintroduced Texas horned lizards (*Phrynosoma cornutum*).
2. Padraic Elliott (MS in progress) Microhabitat use and range size between native and reintroduced populations of Texas horned lizards (*Phrynosoma cornutum*).
3. Mary Rachel Tucker (MS 2021) Thermal ecology of Texas horned lizards (*Phrynosoma cornutum*) in small Texas towns.
4. Austin Chipps (co-advised with Amanda Hale) (MS 2020) Genetic diversity and population structure of two species of yellow bats in south Texas.
5. Steven Mirkin (MS 2019) Urban predation of Texas horned lizards (*Phrynosoma cornutum*).
6. Dustin Rhoads (MS 2019) Concealing coloration in Texas horned lizards (*Phrynosoma cornutum*).
7. Rachel Alenius (PhD in progress) Reintroduction of Texas horned lizards and the importance of dietary specialization.
8. Tom Stevens (co-advised with Amanda Hale) (PhD in progress) How do habitat specialists persist in urban forests? A case study using the Great Trinity Forest.
9. Rachel Alenius (MS 2018) Diet Analysis of Texas horned lizards living in two small Texas towns.
10. Alexis Ackel (MS 2016) Census and genetic estimates of Texas horned lizard population size.
11. Carolina Granthon (MS 2015) Avian malaria and body condition in four species of songbirds.
12. Ashley Wall (MS 2014) Status and movement patterns of Texas horned lizards living in urban areas.
13. Daniella Biffi (MS 2014) Non-invasive sampling and censusing marine otters in Peru.
14. Daniel Tallent (MS 2012) Genetic variation in the pds gene and its relation to fluridone resistance in *Hydrilla verticillata*.
15. Jenny Korstian (co-advised with Dr. Amanda Hale) (MS 2012) Genetic structure of migrating red bats in Texas.
16. Anna Frankel (MS 2011) Multiple paternity in the endangered Kemp's ridley sea turtle.
17. Natalia Quinteros-Casaverde (MS 2010) Genetic structure of *Polylepis multijuga* Plige (Rosaceae) forests.
18. Meredith Hawkins (MS 2010) Genetic structure of the endangered painted terrapin (*Batagur borneoensis*) in captive breeding programs.
19. Amber Grajczyk (MS 2009) Evidence of clonal reproduction and high genetic variation in the exotic weed *Hydrilla verticillata*.

### Graduate Committees

1. Sarah LiCari (MS Biology, in progress)
2. Halia Eastburn (MS Biology, in progress)
3. Claire Crawbuck (MS Environmental Science, in progress)
4. Michael Segala (MS Biology, 2020)
5. Karis Kang (MS Biology, 2020)
6. Amber Schenk (MS Biology, 2020)
7. Tom Thalhuber (MS Biology, 2019)
8. Zane Winer (MS Biology, 2019)
9. Spencer Weinstein (MS Biology, 2018)
10. Cole Lindsey (MS Biology, 2017)
11. Rachel Carmickle (MS Biology, 2017)
12. Cecily Foo (MS Biology, 2016)
13. Andria Beal (MS Biology, 2016)
14. Leah Thornton (MS Biology, 2015)
15. Aaron McAlexander (MS Biology, 2013)

16. Erin Hatchet (MS Environmental Science, 2011)
17. Tom Stevens (MS Environmental Science, 2011)
18. Trevor Rubenstahl (MS Environmental Science, 2010)
19. Jeff Meyers (MS Environmental Science, 2010)
20. Ahn Nguyen (MS Biology, 2009)
21. Condred Roberts (MS Biology, 2009)
22. Shuba Subramanian (MS Biology, 2009)
23. Mathew Croxton (MS University of Florida, 2009)
24. Tauna Rankin (PhD University of Miami, FL 2009)

### Presentation of Scholarly and Creative Activities

(\* denotes graduate students; \*\* denotes undergraduate students at TCU only)

#### a. Refereed Publications

1. Canavan K, NL Magengelele, ID Paterson, DA Williams, GD Martin. 2021. Uncovering the phylogeography of *Schinus terebinthifolia* in South Africa to guide biological control. AoB PLANTS plab078.
2. Finger N, K Farleigh, JT Bracken, AD Leaché, O François, Z Yang, T Flouri, T Charran, T Jezkova, DA Williams, and C Blair. 2021. Genome-scale data reveal deep lineage divergence and a complex demographic history in the Texas horned lizard (*Phrynosoma cornutum*) throughout the southwestern and central United States. Genome Biology and Evolution 14:evab260.
3. Mirkin S\*, MR Tucker\*, and DA Williams. 2021. Predation release of Texas horned lizards (*Phrynosoma cornutum*) living in small towns. Ecology and Evolution 11:5355-5363.
4. Williams DA, NE Harms, IA Knight, BJ Grewell, CJ Futrell, and PD Pratt. 2020. High genetic diversity in the clonal aquatic weed *Alternanthera philoxeroides* in the United States. Invasive Plant Science and Management 13:217-225.
5. Biffi D\*, A López-Mobilia, S Kelez, DA Williams, MM Chumchal, and M Weinburgh. 2020. Mislabelling and high mercury content hampers the efforts of market-based seafood initiatives in Peru. Scientific Reports 10:1-12.
6. Harms NE, DA Williams, and MF Purcell. 2020. The role of overseas genetic surveys to potentially accelerate biological control development for a new *Hydrilla verticillata* introduction in the USA. BioControl 1-10.
7. Chipps AS\*, AM Hale, SP Weaver, and DA Williams. 2020. Genetic diversity, population structure, and effective population size in two yellow bat species in South Texas. PeerJ 8:e10348.
8. Chipps AS\*, AM Hale, SP Weaver, and DA Williams. 2020. Genetic approaches are necessary to accurately understand bat-wind turbine impacts. Diversity 12:236.
9. Frankel AM\* and DA Williams. 2020. Multiple paternity in a reintroduced rookery of Kemp's Ridley Sea Turtles on South Padre Island, Texas. Journal of Herpetology 54:50-56.
10. Williams DA, NR Rains, and AM Hale. 2019. Population genetic structure of Texas horned lizards: Implications for reintroduction and captive breeding. PeerJ 7:e7746.
11. Heuring C, D Barber, NR Rains, D Erxleben, C Martin, DA Williams, and EJ McElroy. 2019. Genetics, morphology and diet of introduced populations of the ant-eating Texas horned lizard (*Phrynosoma cornutum*). Scientific Reports 9:11470.
12. Metz MA, GS Wheeler, LF Landry, DA Williams, and F McKay. 2019. A new genus and species of *Gelechiini* (Lepidoptera: Gelechiidae) feeding on Brazilian peppertree. Proceedings of the Entomological Society of Washington 121:63-80.
13. Jones E, DA Williams, and GS Wheeler. 2019. Life history and host range determination of *Paectes* n. sp. – a potential classical biological control agent of Brazilian peppertree in the United States. Biocontrol Science and Technology 30:1-18.
14. Malonza PK, AM Bauer, C Granthon\*\*, DA Williams, and D Wojnowski. 2019. A new species of gecko of the genus *Lygodactylus* (Sauria: Gekkonidae) from southeastern Kenya. Zootaxa 4609:308-320.

15. Williams DA, NE Harms, MJ Grodowitz, and M Purcell. 2018. Genetic structure of *Hydrilla verticillata* L.f. Royle in eastern China and the Republic of Korea: implications for surveys of biological control agents for the invasive monoecious biotype. *Aquatic Botany* 149:17-27.
16. Foo CF\*, VJ Bennett, AM Hale, JM Korstian, AJ Schildt\*\*, and DA Williams. 2017. Increasing evidence that bats actively forage at wind turbines. *PeerJ* 5:e3985.
17. Granthon C\* and DA Williams. 2017. Avian malaria, body condition, and blood parameters in four species of songbirds. *The Wilson Journal of Ornithology* 129:492-508.
18. Biffi D\* and DA Williams. 2017. Use of non-invasive techniques to determine population size of the marine otter in two regions of Peru. *Mammalian Biology-Zeitschrift für Säugetierkunde* 84:12-19.
19. Bennett VJ, AM Hale, and DA Williams. 2017. When the excrement hits the fan: fecal surveys reveal species-specific bat activity at wind turbines. *Mammalian Biology-Zeitschrift für Säugetierkunde* 87:125-129.
20. Williams DA, NE Harms, L Dodd, MJ Grodowitz, and GO Dick. 2017. Do the U.S. dioecious and monoecious biotypes of *Hydrilla verticillata* hybridize? *Journal of Aquatic Plant Management* 55:35-38.
21. Korstian JM\*, AM Hale, VJ Bennett, and DA Williams. 2016. Using DNA barcoding to improve bat carcass identification at wind farms in the United States. *Conservation Genetics Resources* 8:27-34.
22. Malonza PK, C Granthon\*\*, and DA Williams. 2016. A new species of dwarf gecko in the genus *Lygodactylus* (squamata: Gekkonidae) from central Kenya. *Zootaxa* 4061:418-428.
23. Mukherjee A, DA Williams, MA Gitzendanner, WA Overholt, and JP Cuda. 2016. Microsatellite and chloroplast DNA diversity of the invasive aquatic weed *Hygrophila polysperma* in native and invasive ranges. *Aquatic Botany* 129:55-61.
24. Korstian JM\*, AM Hale, and DA Williams. 2015. Genetic diversity, historic population size, and population structure in 2 North American tree bats. *Journal of Mammalogy* 96:972-980.
25. Korstian JM\*, AJ Schildt\*\*, VJ Bennett, DA Williams, and AM Hale. 2015. A method for PCR-based identification of bat species from fecal samples. *Conservation Genetics Resources* 7:803-806.
26. Horner JD, EB Hodcroft\*\*, AM Hale, DA Williams. 2014. Clonality, genetic variation, and the origin of isolated western populations of the carnivorous plant, *Sarracenia alata*. *The Journal of the Torrey Botanical Society* 141:326-337.
27. Wheeler GS, DA Williams, and M Chawner. 2014. Predicting the host range of *Nystalea ebalea*: secondary plant chemistry and host selection by a surrogate biological control agent of *Schinus terebinthifolia*. *Biological Control* 73:39-49.
28. Korstian JM\*, AM Hale, and DA Williams. 2014. Development and characterization of microsatellite loci for eastern red and hoary bats (*Lasiurus borealis* and *L. cinereus*). *Conservation Genetics Resources* 6:605-607.
29. Diaz R, D Moscosoa, V Manrique, DA Williams, and WA Overholt. 2014. Native range density, host utilization and life history of *Calophya latiforceps* (Hemiptera: Calophyidae): An herbivore of Brazilian peppertree (*Schinus terebinthifolia*). *Biocontrol Science and Technology* 24:536-553.
30. Manrique V, R Diaz, L Erazo, N Reddi, GS Wheeler, DA Williams, and WA Overholt. 2014. Comparison of two populations of *Pseudophilothrips ichini* (Thysanoptera: Phlaeothripidae) as candidates for biological control of the invasive weed *Schinus terebinthifolia* (Sapindales: Anacardiaceae). *Biocontrol Science and Technology* 24:518-535.
31. Wheeler GS, F Mc Kay, M Vitorino, and DA Williams. 2013. Biology and host range of *Omolabus piceus* (Coleoptera: Attelabidae), a weevil rejected for biological control for *Schinus terebinthifolia* in the USA. *Biocontrol* 58:693-702.
32. Korstian JM\*, AM Hale, VJ Bennett, and DA Williams. 2013. Advances in sex determination in bats and its utility in wind-wildlife studies, *Molecular Ecology Resources* 13:776-780.
33. Quinteros-Casaverde N\*, CF Flores-Negrón, and DA Williams. 2012. Low genetic diversity and fragmentation effects in a wind-pollinated tree, *Polylepis multijuga* Plige (Rosaceae) in the high Andes. *Conservation Genetics* 13:593-603.
34. Williams DA, M Hanson\*\*, R Diaz, and WA Overholt. 2012. Determination of common reed (*Phragmites australis* (Cav.) Trin. Ex Steudel) varieties in Florida. *Journal of Aquatic Plant Management* 50:69-74.

35. Mukherjee A, DA Williams, GS Wheeler, JP Cuda, S Pal, and WA Overholt. 2012. Brazilian peppertree (*Schinus terebinthifolius*) in Florida and South America: evidence of a possible niche shift driven by hybridization. *Biological Invasions* 14:1415-1430.
36. Cuda JP, LR Christ, V Manrique, WA Overholt, GS Wheeler, and DA Williams. 2012. Role of molecular genetics in identifying 'fine-tuned' natural enemies of the invasive Brazilian peppertree, *Schinus terebinthifolius*: A review. *BioControl* 57:227-233.
37. Williams DA, C Leach\*\*, AM Hale, KB Karsten, E Mujica, D Barber, LA Linam, and N Rains. 2012. Development of tetranucleotide microsatellite loci and a non-invasive DNA sampling method for Texas horned lizards (*Phrynosoma cornutum*). *Conservation Genetics Resources* 4:43-45.
38. Burckhardt D, JP Cuda, V Manrique, R Diaz, WA Overholt, DA Williams, LR Christ, and MD Vitorino. 2011. *Calophya latiforceps*, a new species of jumping plant lice (Hemiptera: Calophyidae) associated with *Schinus terebinthifolius* (Anacardiaceae) in Brazil. *Florida Entomology* 94: 489-499.
39. Geiger JH, PD Pratt, GS Wheeler, and DA Williams. 2011. Hybrid vigor for the invasive exotic Brazilian peppertree (*Schinus terebinthifolius* Raddi., Anacardiaceae) in Florida. *International Journal of Plant Sciences* 172:655-663.
40. Croxton MD, MA Andreu, DA Williams, WA Overholt, and JA Smith. 2011. Geographic origins and genetic diversity of air-potato (*Dioscorea bulbifera*) in Florida. *Invasive Plant Science and Management* 4:22-30.
41. Mound LA, GS Wheeler, and DA Williams. 2010. Resolving cryptic species with morphology and DNA; thrips as a potential biocontrol agent of Brazilian peppertree, with a new species and overview of Pseudophilothrips (Thysanoptera). *Zootaxa* 2432:59-68.
42. Grajczyk AM\*, WA Overholt, JP Cuda, SD Brown, and DA Williams. 2009. Characterization of microsatellite loci in *Hydrilla verticillata*. In: *Molecular Ecology Resources Primer Development Consortium et al.* 2009. *Molecular Ecology Resources* 9:1460-1559.
43. Scott CP, DA Williams, and DL Crawford. 2009. The effect of genetic and environmental variation on metabolic gene expression. *Molecular Ecology* 18:2832-2843.
44. Purcell J, RK Cowen, CR Hughes, and DA Williams. 2009. Population structure in a common Caribbean coral reef fish: implications for larval dispersal and early life-history traits. *Journal of Fish Biology* 74:403-417.
45. Williams DA, SD Brown, and DL Crawford. 2008. Contemporary and historical influences on the genetic structure of the estuarine dependent Gulf killifish, *Fundulus grandis*. *Marine Ecology Progress Series* 373:111-121.
46. Murray KL, TH Fleming, MS Gaines, and DA Williams. 2008. Characterization of polymorphic microsatellite loci for two species of Phyllostomid bats from the Greater Antilles (*Erophylla sezekorni* and *Macrotus waterhousii*). *Molecular Ecology Resources* 8:596-598.
47. Williams DA and AM Hale. 2008. Investment in nesting activities and patterns of within-group genetic paternity in a cooperatively breeding bird. *The Condor: An International Journal of Avian Biology* 110:13-23.
48. Manrique V, JP Cuda, WA Overholt, DA Williams, and GS Wheeler. 2008. Effect of host-plant genotypes on the performance of two candidate biological control agents of Brazilian peppertree in Florida. *Biological Control* 47:167-171.
49. Kruger TR, DA Williams, and WA Searcy. 2008. The genetic mating system of a tropical tanager. *The Condor: An International Journal of Avian Biology* 110:559-562.
50. Berg EC and DA Williams. 2007. Studying individual interactions and direct fitness benefits in wild birds: history and practice. *Behavioural Processes* 76:163-166.
51. Williams DA and M Osentoski. 2007. Genetic considerations for the captive breeding and reintroduction of freshwater turtles and tortoises. *Chelonian Conservation and Biology* 6:302-313.
52. Williams DA, Y Wang, M Borchetta, and MS Gaines. 2007. Genetic diversity and spatial structure of a keystone species in fragmented pine rockland habitat. *Biological Conservation* 138:256-268.
53. Williams DA and AM Hale. 2007. Female-biased helping in a cooperatively breeding bird: female benefits or male costs? *Ethology* 113:534-542.
54. Williams DA, E Muchugu, WA Overholt, and JP Cuda. 2007. Colonization patterns of the invasive Brazilian peppertree, *Schinus terebinthifolius*, in Florida. *Heredity* 98:284-293.

55. Purcell J, RK Cowen, CR Hughes, and DA Williams. 2006. Weak genetic structure indicates strong dispersal limits: a tale of two coral reef fish. *Proceedings of the Royal Society B: Biological Sciences* 273:1483-1490.
56. Williams DA and AM Hale. 2006. Helper effects on offspring production in cooperative breeding brown jays. *The Auk: A Quarterly Journal of Ornithology* 123:847-857.
57. Krueger TR and DA Williams. 2006. Microsatellite loci for Cherrie's tanager (*Ramphocelus costaricensis*). *Molecular Ecology Notes* 6:853-855.
58. Williams DA, WA Overholt, JP Cuda, and CR Hughes. 2005. Chloroplast and microsatellite DNA diversities reveal the introduction history of Brazilian peppertree (*Schinus terebinthifolius*) in Florida. *Molecular Ecology* 14:3643-3656.
59. Wang Y, DA Williams, and MS Gaines. 2005. Evidence for a genetic bottleneck in the endangered Florida Keys silver rice rat (*Oryzomys argentatus*) revealed by microsatellite analyses. *Conservation Genetics* 6:575-585.
60. Williams DA and KN Rabenold. 2005. Male-biased dispersal, female philopatry, and routes to fitness in a social corvid. *Journal of Animal Ecology* 74:150-159.
61. Williams DA. 2004. Female control of reproductive skew in cooperatively breeding brown jays (*Cyanocorax morio*). *Behavioral Ecology and Sociobiology* 55:370-380.
62. Williams DA, EC Berg, AM Hale, and CR Hughes. 2004. Characterization of microsatellite loci for parentage studies of white-throated magpie-jays (*Calocitta formosa*) and brown jays (*Cyanocorax morio*). *Molecular Ecology Notes* 4:509-511.
63. Williams DA, J Purcell, RK Cowen, and CR Hughes. 2004. Characterization of microsatellite multiplexes for population genetic studies of bluehead wrasse (*Thalassoma bifasciatum*, Pisces: Labridae). *Molecular Ecology Notes* 4:525-527.
64. Williams DA, J Purcell, RK Cowen, and CR Hughes. 2004. Microsatellite multiplexes for high-throughput genotyping of French grunts (*Haemulon flavolineatum*, Pisces: Haemulidae) and their utility in other grunt species. *Molecular Ecology Notes* 4:46-48.
65. Hale AM, DA Williams, and KN Rabenold. 2003. Territoriality and neighbor assessment in brown jays. *The Auk: A Quarterly Journal of Ornithology* 120:446-456.
66. Williams DA, J Purcell, CR Hughes, and RK Cowen. 2003. Polymorphic microsatellite loci for population studies of the bicolor damselfish, *Stegastes partitus* (Pomacentridae). *Molecular Ecology Notes* 3:547-549.
67. Williams DA, L da SL Sternberg, and CR Hughes. 2002. Characterization of microsatellite loci in an invasive species, the Brazilian pepper, *Schinus terebinthifolius*. *Molecular Ecology Notes* 2:231-232.
68. Williams DA and MF Lawton. 2000. Brown jays: complex sociality in a colonizing species. In: *Monteverde: Ecology and Conservation of a Tropical Cloud Forest* (Eds. NM Nadkarni and NT Wheelwright), pp. 212-213. Oxford University Press, New York.
69. Williams DA, MF Lawton, and RO Lawton. 1994. Population growth, range expansion and competition in the cooperatively breeding brown jay, *Cyanocorax morio*. *Animal Behaviour* 48:309-322.

#### b. Non-refereed Publications

1. Williams DA, JM Korstian\*, VJ Bennett, and AM Hale. 2016. Barcoding's role in bat fatality monitoring at wind farms. *Barcode Bulletin* 7(1):2-3.
2. Harms NE, DA Williams, and MJ Grodowitz. 2014. Genetic relationships among invasive hydrilla (*Hydrilla verticillata* L.f. Royle) biotypes in the U.S. and their implications for management. Technical Report for US Army Corps of Engineers Research and Development Center.
3. Overholt WA, DA Williams and R Diaz. 2011. Weed alert: Common reed (*Phragmites australis*). Florida Fish and Wildlife Conservation Commission.
4. Overholt WA, R Diaz, M Hanson\*\* and DA Williams. 2011. Phragmites in Florida. *Aquatics* 33:6-7.

#### Papers Presented at Scholarly Meetings

1. Stevens TK\*, AM Hale, and DA Williams, 2021, How does urbanization impact the distribution of a habitat specialist in an urban forest fragment? The Wildlife Society's 28th Annual Conference, Virtual Meeting.
2. Chipps AC\*, AM Hale, SP Weaver, and DA Williams, 2021, Genetic diversity, population structure, and effective population size in two yellow bat species in south Texas. 100th Annual Meeting of the American Society of Mammalogists, Virtual Meeting.
3. Alenius-Thalhuber RN\*, and DA Williams, 2021, Stable isotopes confirm atypical diets of Texas horned lizards (*Phrynosoma cornutum*) in small towns. Joint Meeting of Ichthyologists and Herpetologists, Virtual Meeting.
4. Alenius-Thalhuber RN\*, D Barber, N Rains, J Gallagher, T Thalhuber, and DA Williams, 2021, Differential diet, growth rates, and survival of captive-bred hatchling Texas horned lizards (*Phrynosoma cornutum*) in two locations in central Texas. Joint Meeting of Ichthyologists and Herpetologists, Virtual Meeting.
5. Stevens TK\*, AM Hale, and DA Williams, 2021, How does urbanization impact breeding bird occupancy in the Great Trinity Forest? Texas Conservation Symposium, Georgetown, TX, Virtual Meeting.
6. Tucker MR\*, D Biffi, and DA Williams, 2021, Thermal ecology of Texas horned lizards in small Texas towns. Texas Conservation Symposium, Georgetown, TX, Virtual Meeting.
7. Alenius RA\*, and DA Williams, 2021, Diets of suburban and reintroduced hatchling Texas horned lizards (*Phrynosoma cornutum*) in different habitats. Texas Conservation Symposium, Georgetown, TX, Virtual Meeting.
8. Alenius RA\*, and DA Williams, 2020, Stable isotopes confirm atypical diet of Texas horned lizards (*Phrynosoma cornutum*) in small towns. Texas Conservation Symposium, Georgetown, TX.
9. Chipps A\*, A Hale, S Weaver, and D Williams, 2020, Genetic approaches improve our understanding of bat-wind turbine impacts. Annual Meeting of the Texas Chapter of the Wildlife Society, Corpus Christi, TX.
10. Rhoads D\*, and DA Williams, 2020, Plant-Stem Litter Mimicry and Substrate Color-Matching in the Texas Horned Lizard (*Phrynosoma cornutum*). Texas Horned Lizard Conservation Coalition Meeting, Fort Worth Zoo, Fort Worth, TX.
11. Mirkin S\*, M Tucker\*, and DA Williams, 2020, Predation release of Texas horned lizards living in small towns. Texas Horned Lizard Conservation Coalition Meeting, Fort Worth Zoo, Fort Worth, TX.
12. Alenius RA\*, and DA Williams, 2020, Stable isotopes confirm generalized diets of Texas horned lizards (*Phrynosoma cornutum*) in small towns. Texas Horned Lizard Conservation Coalition Meeting, Fort Worth Zoo, Fort Worth, TX.
13. Williams DA, 2020, How many Texas horned lizards need to be released in order to maintain genetic diversity? Texas Horned Lizard Conservation Coalition Meeting, Fort Worth Zoo, Fort Worth, TX.
14. Connor C, D Zinn, D Biffi, DA Williams, and CM Watson, 2020, Dietary niche overlap of native and invasive anoles on Dominica. Society for Integrative and Comparative Biology. Austin, TX, USA.
15. Stevens TK\*, AM Hale, and DA Williams, 2019, Using time-to-detection to model occupancy in songbirds in an urban bottomland forest. Association of Field Ornithologists (AFO) and Wilson Ornithological Society (WOS) Joint Meeting, Cape May, NJ.
16. Chipps A\*, AM Hale, S Weaver, and DA Williams, 2019, Genetic approaches improve our understanding of bat-wind turbine impacts. 49th Annual Symposium of the North American Society for Bat Research, Kalamazoo, MI.
17. Biffi D\*, A Lopez-Mobilia, S Kelez, DA Williams, MM Chumchal, and MH Weinburgh, 2019, Mislabeling and mercury content in seafood in Peru. First Peruvian Shark Symposium, Lima, Peru
18. Biffi D\*, A Lopez-Mobilia, S Kelez, DA Williams, MM Chumchal, and MH Weinburgh, 2019, Mislabeling and mercury content in seafood in Peru. 14th International Conference on Mercury as a Global Pollutant, Krakow, Poland.
19. Finger N, T Jezkova, O Francois, DA Williams, A Leache, T Charran, K Farleigh, J Bracken, and C Blair, 2019, Genomic data reveal deep lineage divergence and molecular adaptation in the Texas horned lizard (*Phrynosoma cornutum*). Evolution 2019, Providence, RI.

20. Biffi D\*, A Lopez-Mobilia, S Kelez, DA Williams, MM Chumchal, and MH Weinburgh, 2019, Mislabeling and mercury content in seafood in Peru. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT
21. Hale AM, A Chippis\*, K Scolman\*\*, S Weaver, and DA Williams, 2019, Genetic approaches improve our understanding of bat-wind turbine impacts. 5th Conference on Wind Energy and Wildlife Impacts (CWW 2019), Stirling, Scotland, UK.
22. Mirkin S\*, MR Tucker\*\*, and DA Williams, 2019, Urban predation of Texas horned lizards (*Phrynosoma cornutum*). Texas Conservation Symposium, Georgetown, TX.
23. Biffi D\*, A Lopez-Mobilia, S Kelez, DA Williams, MM Chumchal, and MH Weinburgh, 2019, Mislabeling and mercury content in seafood in Peru. First Latin American Congress of Sharks, Rays, and Chimaeras, Playa del Carmen, Mexico.
24. Williams DA, 2019, Genetic considerations for captive breeding and reintroducing Texas horned lizards (*Phrynosoma cornutum*). Texas Conservation Symposium, Georgetown, TX.
25. Williams DA, 2019, Genetic considerations for reintroducing captive-bred Texas horned lizards (*Phrynosoma cornutum*). Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT.
26. Mirkin S\*, M Tucker\*\*, and DA Williams, 2019, Predation release of Texas horned lizards living in small towns. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT.
27. Tucker M\*, S Mirkin\*, and DA Williams, 2019, Ectoparasite loads of Texas horned lizards (*Phrynosoma cornutum*) living in small Texas towns. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT.
28. Rhoads D\*, and DA Williams, 2019, Background color-matching in the Texas horned lizard (*Phrynosoma cornutum*). Texas Conservation Symposium, Georgetown, TX.
29. Tucker MR\*\*, S Mirkin\*, and DA Williams, 2019, Ectoparasite loads of urban Texas horned lizards (*Phrynosoma cornutum*). Texas Conservation Symposium. Georgetown, TX.
30. Williams DA, AM Hale, AE Wall\*, and D Biffi\*, 2018, Conservation genetics of Texas horned lizards (*Phrynosoma cornutum*). Biology of Lizards 2018, Rodeo, NM.
31. Alenius R\*, and DA Williams, 2018, Can specialists generalize? Diets of Texas horned lizards (*Phrynosoma cornutum*) living in small Texas towns. Biology of Lizards 2018, Rodeo, NM.
32. Williams DA, 2018, Genetic management of captive Texas horned lizards. Texas Horned Lizard Conservation Coalition Meeting, Mason Mountain Wildlife Management Area, TX.
33. Alenius R\*, and DA Williams, 2018, Can specialists generalize? Diets of Texas horned lizards in towns of south Texas. Texas Horned Lizard Conservation Coalition Meeting, Mason Mountain Wildlife Management Area, TX.
34. Williams DA, AM Hale, AE Wall\*, and D Biffi\*, 2018, Conservation genetics of Texas horned lizards (*Phrynosoma cornutum*). Texas Conservation Symposium, Georgetown, TX.
35. Alenius R\* and DA Williams, 2018, When specialists generalize: Modified diets of Texas horned lizards (*Phrynosoma cornutum*) living in small Texas towns. Texas Conservation Symposium, Georgetown, TX.
36. Alenius R\* and DA Williams, 2018, Can specialists generalize? Diets of Texas horned lizards (*Phrynosoma cornutum*) in small Texas towns. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY.
37. Biffi D\*, A Lopez-Mobilia, DA Williams, MM Chumchal, and M Weinburgh, 2017, Mercury content and mislabeling in sharks from markets in Lima and Tumbes. 1st Peruvian Shark Symposium, Lima, Peru.
38. Foo CF\*, VJ Bennett, AM Hale, AJ Schildt\*\*, and DA Williams, 2017, Wind turbines provide foraging opportunities for bats in the southern Great Plains. U.S. 4th Conference on Wind Energy and Wildlife Impacts, Estoril, Portugal.
39. Foo CF\*, VJ Bennett, DA Williams, and AM Hale, 2017, Are tree bats foraging at wind turbines in the southern Great Plains? 97th Annual Meeting of the American Society of Mammalogists, Moscow, ID.
40. Alenius R\* and DA Williams, 2017, Variable diet of an ant specialist, the Texas horned lizard (*Phrynosoma cornutum*), living in small Texas towns. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.

41. Williams DA, AM Hale, AE Wall\*, D Biffi\*, 2017, Conservation genetics of Texas horned lizards (*Phrynosoma cornutum*). Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.
42. Barfield K, DA Williams, G Kroh, 2017, Phylogeographic study of *Pinus ponderosa* and *P. jeffreyi*. National Meeting of the Botanical Society of America, Fort Worth, TX.
43. Foo CF\*, VJ Bennett, DA Williams, and AM Hale, 2016, Are tree bats actively foraging at wind turbines in the southern Great Plains? 96th Annual Meeting of the American Society of Mammalogists, Minneapolis, MN.
44. Williams DA, 2016, Texas horned lizard state-wide genetics study. Texas Horned Lizard Conservation Coalition Meeting, Mason Mountain Wildlife Management Area, TX.
45. Ackel A\* and DA Williams, 2016, Kenedy/Karnes City estimators of Texas horned lizard population size. Texas Horned Lizard Conservation Coalition Meeting, Mason Mountain Wildlife Management Area, TX.
46. Alenius R\*\* and DA Williams, 2016, Kenedy/Karnes City Texas horned lizard diet study. Texas Horned Lizard Conservation Coalition Meeting, Mason Mountain Wildlife Management Area, TX.
47. Zsigray BM\*\*, AJ Livingston-Anderson, JM Korstian\*, TP Craig, JK Itami, DA Williams, and JD Horner, 2016, Genetic and morphological differentiation among host races of *Eurosta solidaginis*. Joint Meeting of the Society for the Study of Evolution, the American Society of Naturalists, and the Society of Systematic Biologists, Austin, TX.
48. Granthon C\* and DA Williams, 2015, Avian malaria and body condition in four species of North American songbirds. American Ornithologists' Union, Cooper Ornithological Society Annual Meeting, University of Oklahoma, Norman, OK.
49. Bennett VJ, AM Hale, AJ Schildt\*\*, BG Cooper, AM McAlexander\*, and DA Williams, 2014, Exploring potential hypotheses behind bat-wind turbine collisions. National Wind Coordinating Collaborative Wind Wildlife Research Meeting X, Broomfield, CO.
50. Bennett VJ, AM Hale, AJ Schildt\*\*, and DA Williams, 2014, Evidence that bats utilize wind turbines as a foraging resource. National Wind Coordinating Collaborative Wind Wildlife Research Meeting X, Broomfield, CO.
51. Korstian JM\*, AJ Schildt\*\*, VJ Bennett, DA Williams, and AM Hale, 2014, A method for PCR-based identification of species from bat fecal samples. 44th Annual Meeting of the North American Society for Bat Research, Albany, NY.
52. Bennett VJ, AM Hale, AJ Schildt\*\*, BG Cooper, AM McAlexander\*, and DA Williams, 2014, Exploring potential hypotheses behind bat-wind turbine collisions. 44th Annual Meeting of the North American Society for Bat Research, Albany, NY.
53. Biffi D\* and DA Williams, 2014, Uso de técnicas no-invasivas para determinar tamaño poblacional de *Lontra felina* en dos localidades de Perú. IV Congreso Nacional de Ciencias del Mar, Lima, Peru.
54. Biffi D\* and DA Williams, 2014, Non-invasive estimation of population size and density of marine otters *Lontra felina* in Peru. XXII IUCN OSG International Otter Congress, Rio de Janeiro, Brazil.
55. Williams DA and D Biffi\*, 2014, Weak genetic structure of marine otters (*Lontra felina*) along the coast of Peru. XXII IUCN OSG International Otter Congress, Rio de Janeiro, Brazil.
56. Wall AE\*, D Biffi\*, and DA Williams, 2014, Movement and genetics of Texas horned lizards, Texas Academy of Sciences. 117th Annual Meeting of the Texas Academy of Science, Galveston, TX.
57. Biffi D\* and DA Williams, 2013, Distribución espacial y patrones de uso de letrinas de nutrias marinas *Lontra felina* en Lima, Moquegua y Tacna. Segundo Encuentro de Investigadores Ambientales, Arequipa, Peru.
58. Korstian JM\*, AM Hale, VJ Bennett, and DA Williams, 2012, A genetic method to determine the sex of *Lasiurus* bat carcasses found at wind farms. North American Society for Bat Research 42nd Annual Symposium, San Juan, Puerto Rico.
59. Korstian JM\*, AM Hale, and DA Williams, 2012, High diversity and lack of genetic structure in eastern red bats (*Lasiurus borealis*). American Society of Mammalogists Annual Meeting, Reno, NV.
60. Korstian JM\*, DA Williams, AM Hale, and VJ Bennett, 2012, Population genetics of migrating eastern red bats (*Lasiurus borealis*). Association of American Geographers Annual Meeting, New York, NY.
61. Williams DA, 2011, Conservation genetics of Texas horned lizards. Texas Horned Lizard Conservation Coalition, Fort Worth Zoo, Fort Worth, TX.

62. Overholt WA, M Hanson, R Diaz, and DA Williams, 2011, Common reed in the southeastern USA. Southeast Herbicide Applicator Conference, Panama City, FL.
63. Overholt WA, M Hanson, R Diaz, and DA Williams, 2011, Phragmites in Florida: Native or exotic. 35th Annual Meeting of the Florida Aquatic Plant Management Society, Saint Augustine, FL.
64. Burckhardt D, JP Cuda, V Manrique, R Diaz, WA Overholt, DA Williams, LR Christ, and MD Vitorino, 2011, *Calophya latiforceps* (Hemiptera: Calophyidae), a new species of jumping plant lice and natural enemy of Brazilian peppertree, *Schinus terebinthifolius* (Anacardiaceae), in Brazil. Florida Entomological Society, Fort Myers, FL.
65. Geiger JH, PD Pratt, GS Wheeler, and DA Williams, 2011, Hybrid vigor for the invasive exotic Brazilian peppertree (*Schinus terebinthifolius* Raddi, Anacardiaceae) in Florida. 26th Annual Symposium of the Florida Exotic Pest Plant Council, Maitland, FL.
66. Wheeler GS, F McKay, MD Vitorino, and DA Williams, 2011, Biological control of Brazilian pepper: Results from foreign exploration and host testing. 26th Annual Symposium of the Florida Exotic Pest Plant Council, Maitland, FL.
67. Overholt WA, DA Williams, M Hanson, R Diaz, and V Manrique, 2011, An update on Phragmites in Florida. 26th Annual Symposium of the Florida Exotic Pest Plant Council, Maitland, FL.
68. Frankel AM\* and DA Williams, 2011, Multiple paternity in Kemp's ridley sea turtles on South Padre Island, Texas. 31st Annual Symposium on Sea Turtle Biology and Conservation, San Diego, CA.
69. Frankel AM\* and DA Williams, 2011, Estimating incidence of multiple paternity of Kemp's ridley sea turtles on South Padre Island, Texas. Texas Academy of Science Annual Meeting, Austin, TX.
70. Wheeler GS, DA Williams, and LA Mound, 2010, Plant genotype effects on a host specific thrips and the impact on biological control. 2nd NRIPC Conference on Invasive Species in Natural Areas, Coeur d'Alene, ID.
71. Cuda JP, V Manrique, WA Overholt, DA Williams, and GS Wheeler, 2010, Effect of host-plant genotypes on the performance of Brazilian peppertree biological control agents. Biological Control for Nature: Biological control of pests in forests and associated habitats, Northampton, MA.
72. Overholt WA, DA Williams, RC Copeland, B Nzigidahera, E Nkubaye, F Wanda, B Gidudu, and JP Cuda, 2010, Exploration for natural enemies of *Hydrilla verticillata* Royle (Hydrocharitaceae) in East/Central Africa and genetic characterization of worldwide populations. Biological Control for Nature Conference, Northampton, MA.
73. Overholt WA, RS Copeland, DA Williams, JP Cuda, F Wanda, B Gidudu, B Nzigidahera and E Nkubaye, 2010, Exploration for natural enemies of hydrilla in Africa, and genetic characterization of worldwide populations. Florida Aquatic Plant Management Society, Daytona Beach, FL.
74. Quinteros-Casaverde N\*, C Flores, T Morgan, and DA Williams, 2010, Genetic structure of fragmented *Polylepis multijuga* Plige (Rosaceae) forests. Botany 2010, The Botanical Society of America, Providence, RI.
75. Williams DA, WA Overholt, R Copeland, J Cuda, 2010, Origin of a disjunct population of *Hydrilla verticillata* Royle (Hydrocharitaceae) in the East African Great Lakes. Botany 2010, The Botanical Society of America, Providence, RI.
76. Diaz R, M Hanson\*\*, DA Williams, and WA Overholt, 2010, *Phragmites australis* in Florida: native or introduced? 50th Annual Meeting of the Aquatic Plant Management Society, Bonita Springs, FL.
77. Overholt W, M Hanson\*\*, R Diaz, and DA Williams, 2010, *Phragmites australis* in Florida: native or exotic? 25th Annual Symposium of the Florida Exotic Pest Plant Council. Crystal River, FL.
78. Manrique V, R Diaz, WA Overholt, DA Williams, and JP Cuda, 2010, Efficacy of a potential biocontrol agent to reduce growth of the invasive Brazilian peppertree in Florida. Florida Weed Science Society Meeting, Haines City, FL.
79. Horner JD, E Hodcroft\*\*, AM Hale, and DA Williams, 2010, Clonal reproduction and genetic variation in the carnivorous plant, *Sarracenia alata* Wood. Society for the Study of Evolution, Portland, OR.
80. Williams DA, AM Hale, N Rains, LA Linam, and D Barber, 2010, Conservation genetics of the Texas horned lizard. Conservation Horizons and the Horned Lizard Conservation Society, Texas A & M College of Veterinary Medicine, College Station, TX.

81. Wheeler GS, DA Williams, and L Mound, 2009, Cryptic species in Brazilian pepper biological control. Florida Entomological Society Annual Meeting, Sanibel, FL.
82. Wheeler GS, DA Williams, and L Mound, 2009, Plant genotype effects on a host specific thrips and the impact on biological control. IX International Symposium on Thysanoptera and Tospoviruses, Queensland, Australia.
83. Wheeler GS, DA Williams, and L Mound, 2009, Cryptic species in Brazilian pepper biological control. Entomological Society of America Annual Meeting, Indianapolis, IN.
84. Overholt WA, R Copeland, DA Williams, JP Cuda, B Gidudu, B Nzigidahera, and S Hetrick, 2009, Hydrilla in Africa: A fishy story. 20th Annual Florida Lakes Management Society Conference, Key Largo, FL.
85. Overholt WA, R Copeland, DA Williams, JP Cuda, B Gidudu, B Nzigidahera, and S Hetrick, 2009, Exploration for natural enemies of *Hydrilla verticillata* in Africa: A fishy story. 24th Annual Symposium of the Florida Exotic Pest Plant Council, Delray Beach, FL.
86. Williams DA and AM Hale, 2008, Fine-scale genetic structure in a cooperatively breeding bird, *Cyanocorax morio*. American Ornithologists' Union, Cooper Ornithological Society, and Society of Canadian Ornithologists Meeting, Portland, OR.
87. Williams DA, AM Hale, D Barber, N Rains, LA Linam, 2008, Conservation Genetics of the Texas Horned Lizard. Southwest Partners in Amphibian and Reptile Conservation, Texas Herpetological Society Joint Meeting, Austin, TX.
88. Manrique V, JP Cuda, WA Overholt, DA Williams, and GS Wheeler, 2008, Effect of host-plant genotype on the performance of *Pseudophilothrips ichini*, an approved biological control agent of Brazilian peppertree in Florida. 23rd Annual Symposium of the Florida Exotic Pest Plant Council, Jacksonville, FL.
89. Overholt WA, V Manrique, JP Cuda, DA Williams, and GS Wheeler, 2008, Local adaptation of insect herbivores to plant genotypes: Can insects be too host specific? 56th Annual Meeting of the Entomological Society of America, Reno, NV.
90. Williams DA, S Brown, JP Cuda, GS Wheeler, P Madeira, B Chapman, and WA Overholt, 2007, Genetic relationships among Floridian, African, and Asian populations of *Hydrilla verticillata*. 22nd Annual Symposium of the Florida Exotic Pest Plant Council, Coco Beach, FL.
91. Williams DA, JP Cuda, and WA Overholt, 2007, Out of Florida: does Florida export invasions with high genetic diversity? 22nd Annual Symposium of the Florida Exotic Pest Plant Council, Coco Beach, FL.
92. Manrique V, JP Cuda, WA Overholt, and DA Williams, 2007, Performance of two candidate biological control agents (*Episimus utilis* and *Pseudophilothrips ichini*) on four Brazilian peppertree genotypes found in Florida. 22nd Annual Symposium of the Florida Exotic Pest Plant Council, Coco Beach, FL.
93. Croxton M, MA Andreu, DA Williams, and WA Overholt, 2007, Africa or Asia? Locating the source population of Florida air potato (*Dioscorea bulbifera*) using chloroplast DNA markers. 22nd Annual Symposium of the Florida Exotic Pest Plant Council, Coco Beach, FL.
94. Manrique V, JP Cuda, WA Overholt, and DA Williams, 2007, Evaluating the survival of two candidate biological control agents (*Episimus utilis* and *Pseudophilothrips ichini*) on Brazilian peppertree genotypes. Annual Meeting of the Florida Entomological Society, Sarasota, FL.
95. Manrique V, JP Cuda, WA Overholt, and DA Williams, 2007, Evaluating the performance of *Episimus utilis* (Lepidoptera: Tortricidae) on the invasive Brazilian peppertree in Florida. XII International Symposium on Biological Control of Weeds, Montpellier, France.
96. Williams DA, Y Wang, and MS Gaines, 2006, Genetic structure of natural and restored slash pine in South Florida. Plant Biologists of South Florida Meeting, Miami, FL.
97. Williams DA, WA Overholt, JP Cuda, and CR Hughes, 2005, Molecular markers reveal the introduction history of Brazilian peppertree in Florida. Plant Biologists of South Florida Meeting, Homestead, FL.
98. Williams DA, CR Hughes, WA Overholt, and JP Cuda, 2004, Genetic evidence for two introductions of Brazilian pepper into Florida. Association for Tropical Biology and Conservation, Miami, FL.

99. Williams DA and AM Hale, 2004, Levels of investment in breeding activities by behaviorally reproductive male brown jays. Association for Tropical Biology and Conservation, Miami, FL.
100. Purcell J, CR Hughes, DA Williams, and RK Cowen, 2004, Genetic isolation-by-distance indicates the importance of larval retention for two common species of Caribbean coral reef fish. Association for Tropical Biology and Conservation, Miami, FL.
101. Wang Y, DA Williams, and MS Gaines, 2004, Evidence for a genetic bottleneck in the endangered Florida Keys silver rice rat (*Oryzomys argentatus*) revealed by microsatellite analyses. Association for Tropical Biology and Conservation, Miami, FL.
102. Williams DA, CR Hughes, WA Overholt, and JP Cuda, 2004, Genetic evidence for two introductions of Brazilian pepper into Florida. 19th Annual Symposium of the Florida Exotic Pest Plant Council, Pensacola, FL.
103. Overholt WA, DA Williams, CR Hughes, and JP Cuda, 2004, Diversity of Brazilian peppertree and implications for biological control. Entomological Society of America, Salt Lake City, UT.
104. Cuda JP, WA Overholt, KT Gioeli, CR Hughes, and DA Williams, 2004, Characterization of the variability in the invasive Brazilian peppertree, *Schinus terebinthifolius* (Anacardiaceae): a genetic approach. Annual Meeting of the Weed Science Society of America.
105. Williams DA and AM Hale, 2003, Contributions to nestling care in an avian cooperative breeder with male-biased dispersal. Annual Meeting of the Animal Behavior Society, Boise, ID.
106. Purcell J, RK Cowen, CR Hughes, and DA Williams, 2003, Evidence of the ecological scale of population connectivity among populations of marine fishes in the western Caribbean Sea based on microsatellite DNA markers. Annual Meeting of the American Fisheries Society.
107. Overholt WA, KT Gioeli, JP Cuda, CR Hughes, and DA Williams, 2003, Survey of Brazilian peppertree genetic diversity. 18th Annual Symposium of the Florida Exotic Pest Plant Council, St Petersburg, FL.
108. Overholt WA, KT Gioeli, JP Cuda, CR Hughes, and DA Williams, 2003, Survey of Brazilian peppertree genetic diversity. Annual Meeting of the South Florida Aquatic Plant Management Society, Daytona Beach, FL.
109. Williams DA and AM Hale, 1998, Behavioral and genetic parentage in the cooperatively breeding brown jay. North American Ornithological Congress, St. Louis, MO.
110. Hale AM, DA Williams, and KN Rabenold, 1998, Between-group interactions in the cooperatively breeding brown jay. North American Ornithological Congress, St. Louis, MO.
111. Fauth PT, KN Rabenold, DA Williams, and MC Yaber, 1998, Relative abundance of thrushes migrating through a fragmented Midwestern landscape. North American Ornithological Congress, St. Louis, MO.
112. Rabenold KN, T Simons, B Goodner, P Fauth, and DA Williams, 1993, Effects of forest fragmentation and integrity on Neotropical migratory bird populations. Annual Meeting of the Society for Conservation Biology, Blacksburg, VA.
113. Rabenold KN, P Fauth, and DA Williams, 1992, Migratory bird populations affected by interactions among forest fragmentation, geography and floristics. Annual Meeting of the Society for Conservation Biology, Blacksburg, VA.
114. Williams DA, 1989, Competition for breeding status in a cooperatively breeding bird, the brown jay (*Cyanocorax morio*). 107th Meeting of the American Ornithologists' Union, Pittsburg, PA.
115. Lawton MF, WR Garstka, DA Williams, and RO Lawton, 1988, Baby faced birds: A test of the cuteness hypothesis. 106th Meeting of the American Ornithologists' Union, Fayetteville, AR.

#### d. Invited Seminars

- 2008 Department of Biology, University of Texas, Tyler
- 2007 Department of Biology, Texas Christian University
- 2007 Department of Biology, Middle Tennessee State University
- 2007 Department of Biology, Columbus State University
- 2006 Department of Biology, Florida International University
- 2006 Department of Biology, University of Miami

- 2000 Department of Biology, University of Miami
- 1990 Department of Biology, Coe College

e. Workshop participation

- Fall 2011 Grant Development Workshop (TCU)

### **Editorship, Consultantships, and Applied Professional Activities**

2011 – 2016      Research Associate at BRIT (Botanical Research Institute of Texas)  
 2013 – 2016      BRIT Science Committee

### **Proposal Reviewer**

National Science Foundation – Biological Oceanography, Behavioral Systems Cluster, Population and Evolutionary Processes, Population Biology

### **Manuscript Reviewer**

Agronomy, American Journal of Botany, Animal Behaviour, Annals of Botany, AoB PLANTS, Aquatic Biology, Auk, Austral Ecology, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biocontrol, Biological Invasions, Briefings in Functional Genomics, Bulletin of Marine Science, BMC Genomics, Conservation Genetics, Ecology and Evolution, Ethology, Evolutionary Ecology, Genetica, Heredity, Herpetologica, Invasive Plant Science and Management, Journal of Animal Ecology, Journal of Aquatic Plant Management, Journal of Biogeography, Journal of Field Ornithology, Journal of Fish and Wildlife Management, Journal of Insect Behavior, Journal of Plant Research, Marine Biology, Marine Ecology Progress Series, Molecular Ecology, PeerJ, PhytoKeys, PLOS One, Scientific Reports, Silvae Genetica, Southwestern Naturalist, Wilson Bulletin

### **Academic Advising Activities**

2021	15 Biology majors
2020	14 Biology majors
2019	12 Biology majors
2018	10 Biology majors
2017	11 Biology majors
2016	10 Biology majors
2015	15 Biology majors
2014	24 Biology majors
2013	49 Biology majors
2012	43 Biology majors
2011	46 Biology majors
2010	45 Biology majors
2009	29 Biology majors
2008	5 Biology majors

### **Departmental Service**

2009 – present	Biology Curriculum Committee
2015 – 2018	Departmental Advisory Committee
2009	Tenure-Track Microbiologist Search Committee
2007 – present	Mondays at TCU
2007	Ad-hoc Curriculum Review Committee

### College Service

2016 – present Director of TCU Costa Rica Field Station  
 2014 – present Student Research Symposium (SRS) Committee  
 2019 Chair - Student Research Symposium (SRS) Committee  
 Fall 2010 Chancellor's Advisory Council Meeting, Faculty Participant

### University Service

2017 – 2018 Research Leadership Committee  
 2017 – present Institutional Animal Care and Use Committee (IACUC)  
 2018 – present Chair - Institutional Animal Care and Use Committee (IACUC)  
 2013 – 2016 BioSafety Committee  
 Summer 2012 Search Committee for Sponsored Research Director

### Community Service

- Williams DA, 2021, State of Horned Lizard Conservation. Online presentation for the Horned Lizard Conservation Society.
- Williams DA, 2020, Ecology of horned lizards living in small Texas towns. Online presentation to the Elm Fork Chapter of Texas Master Naturalists.
- Williams DA, 2018, The ecology of small-town Texas horned lizards. Presentation for BRIT Research Lecture Series, Fort Worth, TX.
- Williams DA, Fall semester 2015-2019, 2021, Using genetic methods to study Texas horned lizards. Presentation and laboratory exercise for students from Paschal High School, Fort Worth, TX.
- Williams DA, Spring 2011 and 2012, Horned lizard presentations for elementary students from JT Stevens on "Career Day", Fort Worth, TX.
- Williams DA and AM Hale, Spring 2011, Conservation genetics of horned lizards. Presentation for PUBLIC Knowledge by the Fort Worth Science Museum, Fort Worth, TX.
- Williams DA, 2011, Sociality in cooperative breeding brown jays. Fort Worth Audubon Society, Fort Worth, TX.
- Williams DA and AM Hale, Fall semester 2009-2014, Conservation genetics of horned lizards. Presentation for students from Paschal High School, Fort Worth, TX.
- Williams DA and AM Hale, 2009, Conservation genetics of Texas horned lizards. The Dallas Zoo, Dallas, TX.

### Memberships and Service to Professional Organizations

- American Ornithological Society
- Association of Field Ornithologists
- Association for Tropical Biology and Conservation
- Horned Lizard Conservation Society
- Society for Conservation Biology
- Society for the Study of Amphibians and Reptiles
- Wilson Ornithological Society

### Professional Honors and Awards

1999 Alton A. Lindsey Graduate Fellowship in Ecology (\$500)  
 1993 Purdue Research Foundation Fellowship (stipend for 2 years and \$1,200)  
 1990 Sigma Xi Student Research Award for best paper presented in the Life Sciences  
 1990 Departmental Achievement Award (Department of Biological Sciences, University of Alabama in

Huntsville)

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