

CURRICULUM VITAE

Justin K. Williams, Ph.D.

Department of Biological Sciences

Sam Houston State University

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EDUCATION:

Ph.D. in Botany, May 1999, from University of Texas, Austin. Dissertation title:
“The Apocynaceae of Mexico with morphological phylogentic analysis of
subfamily Apocynoideae”.

Bachelor of Arts in Biology, December 1992, University of Texas, Austin.

TEACHING AND RESEARCH EXPERIENCES:

Assistant Professor of Biology, Sam Houston State University

Current Teaching Responsibilities: Botany (Freshman level; 140 students), General Ecology lecture and laboratory (Junior level; 20-30 students), Plant Taxonomy (Senior level, 30 students).

EXPERTISE:

Plant Systematics, GIS, GPS, Wetlands delineation, Floristic Inventories, Environmental Impact Assessments, Project Management, Nursery/Botanical Garden Management

SECONDARY TITLES:

Director Warner Herbarium, Dept. of Biology, Sam Houston State University (2001-present)

Research Associate Plant Resources Center, University of Texas at Austin (2001-present)

PROFESSIONAL EXPERIENCE:

2007-present **Associate Professor:** Sam Houston State University

2003-2006 **Editor, *PHYTOLOGIA: a journal of Botanical Nomenclature.***

2001-2007 **Assistant Professor:** Sam Houston State University

2000-2001 **Director:** Zilker Botanical Garden, Austin Texas

1998-2000 **Project Coordinator:** Texas Research Institute for Environmental Studies, Sam Houston State University Huntsville, Texas.

1997-1998 **Wildlife Field Consultant:** TRC Miriah. Surveyed Falcon Reservoir for endangered species (Flora and Fauna) and assessed environmental impact of Seismic trucks.

1997-1998 **Assistant Curator:** Plant Resources Center, U.T. Austin

1994-1998 **Teaching Assistant:** University of Texas, Department of Botany

1993-1994 **Horticultural Manager:** Gardens Nursery, Austin Texas.

1993-1993 **Field Consultant:** Pantex Nuclear Facility. Conducted floristic survey of Pantex Nuclear Facility.

1991-1991 **Research Assistant:** Harvard Gray Herbarium

PROFESSIONAL ORGANIZATIONS:

American Society of Plant Taxonomist
Sigma Xi Scientific Research Society
Phi Kappa Phi Honor society

CONTRACTS/GRANTS while at Sam Houston State University:

(Total \$1,810,160; Managed \$1,104,701as PI).

Williams, J.K. (P.I.) and W. Lutterschmidt. 2004. Land Use Practices and its Effect on Ecosystem Dynamics along the Rio Grande. A USDA funded grant run through the cooperation of the Texas State University System. The project is fully funded at \$1,200,000 with SHSU receiving **\$140,000** for 2005; **\$75,000.00** has been funded for 2006. **\$159,000** has been funded for 2007. FUNDED.

Thies, M. L (P.I.), J. Cook, T. Cook, D. Neudorf, W. Lutterschmidt, J. Williams, and K. Wunch. 2004. Detection, testing, mapping and movement of carriers of deadly disease: Disease vector studies along the US-Mexico border and their potential threat to Homeland Security. Federal appropriation to the Department of Homeland Security to the Texas State University System, \$1,000,000 (SHSU **\$250,000** for first year). FUNDED.

Williams, J.K. "An Analysis of the Correlation between Vegetation and Soils at Camp Swift," Adjutant General's Department, Texas Army National Guard Austin, Texas, August 2002, **\$15,000**. FUNDED.

Williams, J.K. (P.I.), M. Thies and C. Hallum. Environmental Survey and Risk Assessment to Introducing the California Condor and Aplomado Falcon near Holloman AFB, New Mexico. U.S. Army Corp of Engineers, Engineering Research and Development. September 2001. **\$266,645.39**. FUNDED.

Williams, J.K. "Species survey of the Sam Houston State University campus," Sam Houston State University Physical Plant, Huntsville, Texas, August 2002, Requested: Salary for student researcher; Received: estimated **\$5,000**. FUNDED.

Williams, J. K. (P.I.), and R. Rush. Wetland Delineation Report. Larry Klotz, Manufactured Housing Community Development. **\$4,056** FUNDED

Williams, J.K. (P.I.) and M. Warnock (Co-PI). Model feasibility of vegetation mapping on military bases: Pilot Project Fort Hood, TX. Construction Engineering Research Laboratories (CERL). January 1999. **\$440,000** FUNDED

Carter, J. (P.I.) and J. K. Williams (Co-PI). Web Course Design: The Impact of Invasive Alien Species on Military Bases. Construction Engineering Research Laboratories (CERL). January 1999 **\$277,000** FUNDED

PUBLICATIONS:

- 30.** Anica Debelica and **Justin K. Williams**. 2008. Analysis of the completeness of vascular plant records in Florida. *Florida Scientist* (in review).
- 29.** **Williams, J. K.** 2008. Book review: "Flora Malesiana". *Econ. Bot.* 62(3): In press.
- 28.** **Williams, J. K.** and J. Stutzman 2008. Documented chromosome numbers 2008. Chromosome number of Thevetia ahouai (Apocynaceae: Plumerieae) with discussion on the generic boundaries of *Thevetia*.. *J. Bot. Res. Inst. Texas* (in review)
- 27.** Berg L. R., **J. K. Williams**, Alexandru Tomescu, and Teresa Sneider-Leiby. 2007. Lab Manual-Introductory Botany : Plants, People and Environment. Brooks/Cole 160pp.
- 26.** **Williams, J. K.** and D. P. Derr. 2007. Documented chromosome numbers 2007. Chromosome number of Laubertia contorta (Apocynaceae: Apocynoideae). *J. Bot. Res. Inst. Texas* 1(1): 431-435. 2007.
- 25.** Livshultz, T., D. Middleton, M. Endress and **J. K. Williams**. 2007. Phylogeny of Apocynoideae (Apocynaceae) and the APSA Clade. *Ann. Missouri Bot. Gard. Ann Mo. Bot.* 94: 323-361.
- 24.** **Williams, J. K.** and W. I. Lutterschmidt. 2006. Determining Large Scale Data Gaps in Museum Collections Using Species Area Relationships. *Lundellia* 9: 41-50.
- 23.** **Williams, J. K.** and J. F. Morales. 2006. Lectotypification of Echites campanulata Sessé & Moç. (Apocynaceae). *Taxon* 55: 779-780.
- 22.** **Williams, J.K.** 2005. Botanical Humor. *Phytologia* 87: 58.
- 21.** Morales, J. F. and **J. K. Williams**. 2005. Una nueva combinacion en el genero Allotonia (Apocynaceae, Apocynoideae, Echiteae). *Lakersteriana* 5(2): 119-120.

20. Spencer, W. P. and **J. K. Williams**. 2005. Emilia fosbergii (Asteraceae: Senecionae) in Texas revisited. SIDA 21(3): 1937-1938.
19. **Williams, J.K.** 2004. A Revision of Capraria (Scrophulariaceae). Lundellia 7: 53-78.
18. **Williams, J.K.** 2004. A new combination in Mexican Mandevilla (Apocynaceae) III. Phytologia 86(3) 178-183.
17. **Williams, J.K.** 2004. Polyphyly of the genus Echites (Apocynaceae: Apocynoideae: Echiteae): Evidence based on a morphological cladistic analysis. SIDA 21(1) 117-131.
16. Morales, J. F. and **J. K. Williams**. 2004. Allotonia, a new neotropical genus of Apocynaceae (subf. Apocynoideae) based on a subgeneric segregate of Echites. SIDA 21(1) 133-158.
15. **Williams, J. K.** 2004. A Range Extension for Fernaldia speciosissima (Apocynaceae, Subfamily Apocynoideae). Rhodora 105: 399-402
14. **Williams, J. K.** 2003. A New Combination in Mexican Mandevilla (Apocynaceae Subfamily Apocynoideae) II. Lundellia 6: 144-147.
13. **Williams, J. K.** 2002. A Re-reevaluation of Echites section Yucatanensis (Apocynaceae) with an additional note on the genus. Brittonia 54(4): 310-317.
12. **Williams, J. K.** 2002. A New Apocynaceae Genus (Thoreauea) from Oaxaca, Mexico. Lundellia 5:47-58.
11. **Williams, J.K.** 1999. A new species of Tintinnabularia (Apocynaceae) from Honduras, with taxonomic notes. Lundellia 2:136-141.
10. Kirkpatrick, Z. and **J. K. Williams**. 1998. Glaucium corniculatum (Papaveraceae), A New Introduction to Texas." SIDA 18:347-349.
9. **Williams, J. K.** 1998. A new species of Mandevilla (Apocynaceae) from Jalisco, Mexico. SIDA 18:231-235.

8. **Williams, J. K.** 1998. A new combination in Mexican Mandevilla (Apocynaceae). SIDA 18: 237-239.
7. **Williams, J. K.** 1998. Revision of Thenardia (Apocynaceae). Lundellia 1: 78-94.
6. **Williams, J. K.** 1996. The Mexican genera of the Apocynaceae (sensu A. DC.), with key and additional taxonomic notes. SIDA 17: 197-214.
5. **Williams, J. K.** 1996. A new combination in Thevetia (Apocynaceae). SIDA 17: 185-190.
4. **Williams, J. K.** 1995. Miscellaneous notes Haplophyton (Apocynaceae: Plumerieae). SIDA 16: 469-475.
3. **Williams, J. K.** 1995. A New Species of Thenardia (Apocynaceae) with notes on the genus. Brittonia 47: 403-407.
2. **Williams, J. K.** 1994. A New Species, Symphoricarpos guatemalensis (Caprifoliaceae), from Guatemala with Key to the Mexican and Guatemalan Species. SIDA 16: 273-280.
1. **Williams, J. K.** 1994. Emilia fosbergii (Asteraceae: Senecioneae), A New Introduction to Texas. SIDA 16: 378.

PROFESSIONAL REPORTS

Williams, J. K., C. Hallum, and B. Patel, 2003. Environmental Survey and Risk Assessment of Bird Impacts at Holloman AFB, New Mexico; Logistic Regression Approach to Bird Avoidance Modeling: A New Method . Construction Engineering Research Laboratory (September 30, 2003)

Williams, J. K. Correlation of the Vegetation and Soils at Camp Swift. Army National Guard. November 2003.

Williams, J. K. 2002. Inventory of the trees of Sam Houston State University Campus, Office of Research and Sponsored Projects, Sam Houston State University (October 31, 2002).

Johnston, M. and J. K. Williams. 1993. Floristic Survey: Pantex Plant Site, Carson County, Texas 1993." Report for the U.S. Department of Energy.

PRESENTATIONS AND INVITED SEMINARS:

Williams, J.K. Is Human Settlement Driven by Plant Species Richness? A Chicken and Egg Argument. Southwestern Association of Naturalist, Memphis, TN. April 10-12. To be presented. [**oral presentation**]

Williams, J. K., A. Gaillard, C. Hargrave, and W. I. Lutterschmidt. Multi-variant analysis of Invasive Plants and Land Condition on the Biodiversity of Fish Assemblages with the Rio Grande. Southwestern Association of Naturalist, Memphis, TN. April 10-12. To be presented. **[oral presentation]**

Julia Stutzman and Justin K. Williams. Clutch Size and Pollen-Ovule Ratios in the Apocynaceae. Southwestern Association of Naturalist, Memphis, TN. April 10-12. To be presented. **[poster presentation]**

Justin L. Degrate and Justin K. Williams. Trends in GIS: Remote Sensing the Hierarchical Levels of the NVCS. Southwestern Association of Naturalist, Memphis, TN. April 10-12. To be presented. **[poster presentation]**

Williams, J. K. and W. I. Lutterschmidt. Determining data gaps in the herbaria collections of Texas using species area relationships. Texas Wildlife Diversity Conference, Houston, TX. Jan. 17-19, 2008. **[oral presentation]**.

Williams, J. K., A. Gaillard and W. I. Lutterschmidt. Effects of Invasive Plants on the Biodiversity of Fish Assemblages with the Rio Grande. Invasive Plants of Texas Conference, Lady Bird Wildflower Research Center November 2007. **[oral presentation]**.

Williams, J. K., A. Gaillard and W. I. Lutterschmidt. Land use Practices and its Effect on Ecosystem Dynamics along the Rio Grande. SAWC conference South Padre, May 2007. **[oral presentation]**.

Williams, J. K. 2007. Independent assessment of the Herbaria in the Philippines. Plenary address the Philippine Society for the Study of Nature 1st international convention at Puerto Princessa Palawan, May 2-4, 2007. **[oral presentation]**.

Hamilton, P. Jamie Hebert, **J.K. Williams**, and M. A. Liboro. Economic Development of Tree Crops in Palawan While Protecting the Rain Forest. Philippine Society for the Study of Nature 1st international convention at Puerto Princessa Palawan, May 2-4, 2007. **[oral presentation]**.

Williams, J. K. & W. I. Lutterschmidt. Determining Large Scale Data Gaps in Museum Collections Using Species Area Relationships. SWAN April 15, 2005. Sam Houston State University. ASPT, American Society of Plant Taxonomist. Austin Tx. August 15-17, 2005. Torch Conference, Fort Worth Texas, May 6, 2006. **[oral presentation]**.

Williams, J. K. and W. P. Spencer. Modeling the Distribution and Densities Of The Non-Native Flora Of Texas Using Herbaria Records and GIS. Invasive Plants of Texas Conference. Austin, Tx, Lady Bird Wildflower Center, November 18, 2005. **[oral presentation]**.

Lutterchmidt, W. I., K. W. Luce, S. D. Koether and J. K. Williams. Land-use practices along the Rio Bravo (Rio Grande) and their influences on vegetation and ichthyofaunal communities. SWAN, South west Association of Naturalist, Colima, Mexico 13-15 April 2006. **[poster presentation]**

Daly, S. M and J. K. Williams. Evaluating the success of the Kansas Anuran Monitoring Program. SWAN, Southwest Association of Naturalist, Colima, Mexico 13-15 April 2006. **[poster presentation]**

Koether, S. and J. K. Williams. Functional Significance of the Apical Anther Appendage in Pentalinon (Apocynaceae). ASPT, American Society of Plant Taxonomist. Austin Tx. August 15-17, 2005. SWAN, Southwest Association of Naturalist, Colima, Mexico 13-15 April 2006. **[poster presentation]**

Tanya Livshultz, David Middleton, Mary Endress & Justin Williams (Harvard University, USA; Royal Botanic Garden, Edinburgh, Scotland; Institute of Systematic Botany, Switzerland; Sam Houston State University, USA) - "Progress in systematics of subfamilies Rauvolfioideae and Apocynoideae (Apocynaceae s. str.)". International Botanical Congress; Vienna, Austria. July 2005. **[oral presentation]**.

Spencer, W. P. & J. K. Williams. GIS Inventory of the Non-Native Flora of Texas. ASHS, American Society for Horticultural Sciences, 18-20 July 2005. Las Vegas. **[poster presentation, 1st Place undergraduate research award]**.

Williams, J.K. & D. Derr. Chromosome counts in the Apocynaceae. SWAN, San Antonio April 15 2004. **[poster presentation]**

Spencer, W. P. & J. K. Williams. Nutlet structuring in the Brazoria/Warnockia complex. SWAN, San Antonio April 15 2004. ASPT, Austin Tx, August 18 2005. **[poster presentation]**

Williams, J. K. Trees of Huntsville. Huntsville Audubon Society Apr 2004. **[oral presentation]**.

Williams, J.K. Vegetation and Flora of Saudi Arabia, New York Botanical Garden, Bronx, October 2 2003. October 7, 2005. Field Museum. **[oral presentation]**.

Williams, J.K. A morphometric analysis of Amsonia (Apocynaceae). SWAN, Norman, Oklahoma. April 17, 2003. American Society of Plant Taxonomist. Austin Tx. August 15-17, 2005. [**poster presentation**]

Williams, J.K. The Dogbane Family (Apocynaceae) of Mexico. SWAN, Cuernavaca, Mexico. April 28, 2002. Instituto de Ecologia, Xalapa Vera Cruz, August 4, 2003. [**oral presentation**]

Story, J., M. Thies, and J. K. Williams. Habitat Survey to Determine Nesting probability of Aplomado Falcons on Holloman Air Force Base. SWAN, Cuernavaca, Mexico. April 28, 2002. [**poster presentation**]

Lauren Grawey and J. K. Williams. GIS survey of the trees of Sam Houston State University. Sigma Xi, Galveston Texas, November 16, 2002. SWAN, Norman, Oklahoma. April 17, 2003. [**poster presentation**]

Williams, J. K. Vegetation and Habitat of Golden Check Warbler and Black Vireo. Huntsville Audubon Society Apr 2002. [**oral presentation**].