

CURRICULUM VITAE
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EDUCATION

Domestic:

2002 PhD Plant Ecology. University of California, Davis. Thesis: *Biotic and Abiotic Factors and Exotic Species Success in California Grassland Communities.*
1995 MS Plant Physiological Ecology. University of California, Davis.
1989 BA International Relations, U.S.-Latin American Affairs. American University, Washington, D.C., School of International Service.

Abroad:

1988 México City, México, Universidad Nacional Autónoma de México (UNAM). Fall.
1988 Madrid, Spain, Skidmore University. Spring.
1987 Nicaragua, El Salvador and Honduras, Augsburg College. Summer.
1996 México City, México, UNAM. Summer.

PROFESSIONAL EXPERIENCE

2004- **Assistant Professor.** Trinity University. Courses: Integrative Biology, Plant Biology, Conservation Biology.
2007- **Associate Editor.** Journal of Invasive Plant Science and Management. Weed Science Society of America.
2002-2004 **Post-doctoral Research Associate.** UNAM, Instituto de Ecología, Sonora, Mexico.
2002 **Restoration Ecologist.** Willow Slough Restoration Project, CalFed-Audubon, CA.
2001 **Lecturer.** University of California, Davis, Department of Plant Biology. Introductory Botany.
1995-2001 **Research Assistant.** University of California, Davis. Advisor: Mark Schwartz. 5 appointments.
1994-2000 **Teaching Assistant.** University of California, Davis. 18 appointments. Courses: California Floristics, Intro. Zoology, Intro. Botany, Plant Hormones and Development, Intro. Environmental Science and Policy, Nature and Culture Field Course.
1995 **Guide/Translator.** University Research Expedition Program (UREP), UC Berkeley. Research expedition Napo River Basin, Ecuador.
1993 **Post-graduate Researcher.** USDA-ARS Aquatic Weed Lab. Herbicide dosage experiments on aquatic weed, *Elodea canadensis*.

FUNDING AWARDS - RESEARCH

Designing invasion resistant plant communities for restoration of the Texas Hill Country
2005, 2007 **Trinity University**, Office of Academic Affairs, Summer Research Stipend. Award: \$7000 yearly.

Ecosystem effects of non-indigenous *Pennisetum ciliaris* (buffelgrass) in Sonoran Desert, México

2002 **NSF International Post-doctoral Research Fellowship.** Award: \$65,000.
2002 **Fulbright-Garcia Robles Scholarship**, U.S. State Department and COMEXUS. Award: \$13,500.
2001 **Forrest Shreve Desert Research Fund**, Ecological Society of America Research Grant Award: \$2000.

Diversity and susceptibility of natural systems to new species colonization:

1998, 1999 **Jastro-Shield Graduate Student Research Grant**, University of California, Davis.
1998, 1999 **Humanities Graduate Student Research Grant**, University of California, Davis
1998, 1999 **Bodega Marine Lab Research Grant**, University of California
1998 **Herbarium Grant**, University of California, Davis

Non-indigenous *Aegilops triuncialis* (Barbed goat grass) and serpentine in California

- 1998 **Sigma Xi**, Grants in Aid of Research
 1998 **Public Service Outreach/Bioregional Grant**, University of California, Davis
 1997 **Mildred Mathias Grant/UC Natural Reserves System**, University of California, Davis
 1997 **California Native Plant Society** Educational Grant

FUNDING AWARDS – UNDERGRADUATE EDUCATION AND RESEARCH

- 2006 **Trinity University, Office of Academic Affairs Curricular and Pedagogical Innovations Grant**.
 Impliment classroom response system in introductory biology course of 180 students.
 2006 **Associated Colleges of the South**. Restoration Teaching Garden. Community Collaboration Grant,
 Trnity University and Mark Twain Middle School, San Antonio, TX.
 2005 **Sherman Fairchild**, Enhancing the Summer Research Program in Science at Trinity University.
 Assisted in writing of proposal. Participated in summer research program.

FUNDING AWARD - GENERAL EDUCATION

- 1994-2000 **Henry A. Jastro Fellowship**, University of California, Davis - awards various

FUNDING AWARDS – TRAVEL

- 2005 **Ecological Society of America SEEDS Program**, Travel to annual meeting, Montreal, Canada.
 2005 **Consortium of the Americas for Interdisciplinary Science**. Reconnaissance of Invasive, Non-
 indigenous Plant Species of the Yucacatan Peninsula, Quintana Roo, Mexico.

REFEREED PUBLICATIONS

- In press* **Lyons, K.G.** Kelly G. Lyons, Baruk G. Maldonado-Leal, Gigi Owen. Community and Ecosystem
 Impacts of the non-indigenous C₄ grass *Pennisetum ciliare* (Buffelgrass) in the Plains
 of the Sonoran desert, Sonora, México In *Invasive Plants on the Move and Controlling them in North
 America*, eds. Francisco Espinosa-García, Tani Hubbard, Thomas R. Van Devender, and Bonnie
 Harper-Lore. University of Arizona Press.
In press Glen, E.P., Franklin, K.A., **Lyons, K.**, Nagler, P.L., Lampkin, D., Molina-Freaner, F., Markow, T., Huete,
 A. Remote sensing methods to monitor Buffelgrass (*Pennisetum ciliare*) land conversion and
 productivity: Case study in the Plains of Sonora In *Invasive Plants on the Move and Controlling
 them in North America*, eds. Francisco Espinosa-García, Tani Hubbard, Thomas R. Van
 Devender, and Bonnie Harper-Lore. University of Arizona Press.
 2006 Franklin, K.A., **Lyons, K.**, Nagler, P.L., Lampkin, D., Glenn, E.P., Molina-Freaner, F., Markow, T.,
 Huete, A.. Buffelgrass (*Pennisetum ciliare*) land conversion and productivity in the plains of
 Sonora, Mexico. *Biological Conservation* 127(1):62-71.
 2005 **Lyons, K.G.**, Brigham, C.A., Traut, B.H., Schwartz, M.W. Rare species and ecosystem functioning.
Conservation Biology 19(4): 1019-1024.
 2001 **Lyons, K.G.**, Schwartz, M.W. Rare species loss alters ecosystem function – invasion resistance.
Ecology Letters 4: 358-365.
 2000 Schwartz, M.W., C. Brigham, J.D. Hoeksema, K.G. **Lyons**, M. Mills, P. VanMantgem. Is biodiversity-
 for-ecosystem-function an appropriate conservation paradigm? *Oecologia* 122: 297-305.

BOOK CHAPTERS, PROCEEDINGS, TECHNICAL REPORTS

- 2006 Suzanne McGaugh, Dean A. Hendrickson, Gary Bell, Hernando Cabral, **Kelly Lyons**, Lucas
 McEachron, and Oscar Muñoz J. Fighting an aggressive wetlands invader: A case study of
 Giant Reed (*Arundo donax*) and its threat to Cuatro Ciénegas, Coahuila, México / Luchando
 contra una especie ribereña, invasora y agresiva: Un estudio de caso del Carrizo Grande (*Arundo
 donax*) y la amenaza que representa para Cuatro Ciénegas, Coahuila, México. In: *Studies of
 North American Desert Fishes in Honor of E. P. (Phil) Pister, Conservationist*, edited by Ma. de
 Lourdes Lozano-Vilano and A. J. Contreras-Balderas, Monterrey, Nuevo León,
 México:Universidad Autónoma de Nuevo León, Facultad de Ciencias Biológicas.
 2006 **Lyons, K.G.** Diversity, invasive species and designing invasion resistant communities.
 Proceedings of the Native Plant Society of Texas Annual Symposium. San Antonio, TX.
 2001 **Lyons, K.G.** Serpentine of the Putah-Cache Bioregion In eds. Robertson, D.A., Thayer, R., Moyle,
 P.B. *Putah and Cache: A Thinking Mammal's Guide to the Watershed*. Public Service
 Outreach Program, UC Davis.
 2000 **Lyons, K.G.**, E. Leger. Insects of the McLaughlin Reserve In *A Guide to the McLaughlin
 Reserve*. University of California Natural Reserve System.

- 2000 **Lyons, K.G.** 2000. *The Spieth Reserve and Western Portion of the North Fork of Putah Creek: A report for the University of California Intelligent Growth Initiative.* UC Davis Planning and Budget Internal Document.
- 1998 **Lyons, K.G.** *Convolvulus arvensis* (Field bindweed). 1998. Element Stewardship Abstract. The Nature Conservancy, Wildlands Weed Management Office, University of California, Davis.
- 1998 **Lyons, K.G.** *Phalaris arundinacea* (Reed canary grass). 1998. Element Stewardship Abstract. The Nature Conservancy, Wildlands Weed Management Office, University of California, Davis.
- 1997 Blair, R., K. **Lyons**, M.W. Schwartz. 1997. *RiparianWatch* (Student and Teacher's Manuals). Guides to Monitoring of Riparian Habitat in Illinois. Illinois Natural History Survey.
- 1996 Schwartz, M.W., Randall, J., Porter, D., **Lyons**, K.G. 1996. Impact of Nonindigenous Plants *In Sierra Nevada Ecosystem Project: Final Report to Congress, vol. II*, Assessments and scientific basis for management options. Davis: University of California, Centers for Water and Wildland Resources.

INVITED TALKS

- 2006 *Designing Invasion Resistant Communities for Restoration of Grasslands in the Edwards Plateau of Texas*, Native Plant Society of Texas Annual State Symposium, October.
- 2006 *Invasion of native and exotic grasses following removal of Juniperus ashei (Cedar) in the Texas Hill Country.* Cibolo Creek Nature Center, Boerne, TX. September.
- 2006 *Diversity, Invasion and Restoration of Native Species.* Texas Native Plant Society, San Antonio Chapter. May.
- 2006 *The Science and Politics of Giant reed (Arundo donax) Invasion in the Rio Grande River.* Society of Applied Anthropology Annual Meeting, Vancouver, British Columbia. March.
- 2005 *Securing the Homeland from Invasive Species: What's Diversity Got to do with it?* Trinity University Faculty Research Dinner, December.
- 2004 *Biotic and Abiotic Determinants of the Success and Impact of Invasive, Non-Indigenous Species.* Department of Evolution and Ecology, Rice University, Houston, Texas. November.
- 2004 *Buffelgrass (Pennisetum ciliare) Impact on Ecosystem Functioning and Native Species Persistence: The Experimental Design Process.* Prescott College, Kino Bay, Sonora, Mexico. February.
- 2003 *Selección Natural por Suelo de Condiciones Extremas: Un Estudio de Plantas Exóticas.* Centro de Estudios Superiores del Estado de Sonora (CESUES), Hermosillo, Sonora, México. July.
- 2003 *Diversidad, Procesos del Ecosistema y Especies Invasoras Exóticas.* Universidad Nacional Autónoma de México (UNAM), Instituto de Ecología, Estacion del Noroeste, Hermosillo, Sonora, México. April.
- 2003 *Pennisetum ciliaris (Buffelgrass) impact on ecosystem processes and native species persistence in the Sonoran Desert.* COMEXUS-Fulbright Commission, U.S. Embassy, México City, Mexico. January.
- 2000 *Diversity and Rare Species Affect Exotic Species Colonization.* LTER-GCTE workshop on species removal methodologies, Ecological Society of America annual conference. August.

PROFESSIONAL MEETING ABSTRACTS

- 2006 Community and ecosystem impacts of *Pennisetum ciliare* (Buffelgrass) in the Sonoran Desert, Sonora, Mexico. Weeds Across Borders Conference. Hermosillo, Sonora, Mexico. May.
- 2005 Community and ecosystem impacts of a C4 grass *Pennisetum ciliare* (Buffelgrass) in the Sonoran Desert. Ecological Society of America. Montreal, Canada. August.
- 2005 Community and ecosystem impacts of a C4 grass *Pennisetum ciliare* (Buffelgrass) in the Sonoran Desert. Texas Invasives. Lady Bird Johnson Wildflower Center. Austin, TX. September.
- 2004 Diversity, dominance and species composition as determinants of non-indigenous, invasive species fitness. Society for Ecological Restoration, Texas Chapter, Denton, TX. June.
- 2003 Edaphic selection and distribution of the exotic annual *Aegilops triuncialis* (Barbed goatgrass) on serpentine soil in California, U.S.A. Ecological Society of America. Savannah, GA. August.
- 2002 Diversity and exotic species success in *ex situ* assembled communities. Ecological Society of America. Tucson, AZ. August.

PROFESSIONAL SERVICE

Manuscript reviews: Science (1), Ecology Letters (6), Ecology (3), Biological Conservation (2), Ecological Applications (1), Biological Invasions (1), Journal of Applied Ecology (2), Revista Chilena de Historia Natural (1), Acta Oecologica (1), Oikos (1). Proposal review: National Science Foundation (2).

Book chapter review: Invasive Species and Disturbance in *Invasion Ecology*, eds. Julie Lockwood, Michael Marchetti and Martha Hoopes (Blackwell Science).

2003- Thesis Advisor. Izar Said Izaguirre, UNAM Instituto de Ecologia, Hermosillo, Mexico

UNIVERSITY SERVICE

2005 Committee Member. Faculty Development Committee. Trinity Univesity.
2005- Committee Member. Mexico, the Americas and Spain (MAS). Trinity Universtiy.
2005 Committee Member. Sherman-Fairchild Summer Undergraduate Research Proposal Development Committee. Trinity University.
2004- Committee Member. Languages Across the Curriculum. Trinity University.

COMMUNITY SERVICE

2006- Board Member. Friends of Friedrich Park Wilderness Preserve. San Antonio, TX.
2006 Visiting University Professor. HHMI Active Learning Institute, Teachers as Scholars Program, Mark Twain and Harris Middle Schools, San Antonio, TX.
2000-2002 City Commissioner. Woodland Tree Commission. Woodland, CA.
1998-1999 Board Member. California Native Plant Society, Sacramento Chapter, CA.
1997-1998 Board Member. Association for Women in Science, UC Davis.

AFFILIATIONS

Ecological Society of America, Society for Ecological Restoration, The Nature Conservancy, University of Texas LBJ Wildflower Center

LANGUAGE ABILITY

Fluent in Spanish
Knowledge of French

GRADUATE ADVISOR

M.W. Schwartz. University of California at Davis. Department of Environmental Science and Policy.