

Climate Ready Technical	Application No: No: 20200226093446_9547
INTRODUCTORY LANGUAGE	
The SA Climate Ready Climate Action and Adaptation Plan (CAAP) is San Antonio's a roadmap to reduce carbon emissions, adapt to a changing climate, and ensure San Antonio remains a healthy, vibrant place for generations to come.	
The Technical and Community Advisory Committee will advise City staff and City Council on the implementation of the CAAP, and other associated long-term sustainability plans, such as the SA Tomorrow Sustainability Plan, while serving as a forum for the community to offer input on climate action and sustainability.	
As the CAAP is centered in equity and diversity, membership in advisory committees shall represent those that live and work within the City of San Antonio, inclusive of indigenous persons, communities of color, low-income residents, LGTBQIA+ persons, persons of varying ages, persons with different abilities, and other marginalized communities who hold diverse expertise, identities, and/or perspectives.	
The City of San Antonio, through the Office of Equity, has made a commitment to advancing diversity, equity and inclusion in local government in all of its Departments. Equity means that our policy-making, service delivery, and distribution of resources account for the different histories, challenges, and needs of the people we serve. The Office of Equity is a citywide office focused on advancing social equity within City Government, to help reduce and ultimately eliminate disparities experienced by our most marginalized	

San Antonio residents, and the Office of Sustainability will continue to collaborate with them on the CAAP.	
If you need assistance with completing this application, please contact the Office of Sustainability at 210.207.6103 or Sustainability@sanantonio.gov.	
PROFILE	
Prefix	Dr.
Last Name	Lyons
First Name	Kelly
Middle Name	Guadalupe
Suffix	
Preferred Name	Kelly Lyons
Title	Professor
Address Type?	Residence
Address	
City	San Antonio
State	TX
Zip	78212
Phone Type?	Cell
Phone number	
Phone 2 Type?	Business
Phone 2 number	2109998348
eMail	
Employer	Trinity University
Job Title	Professor
Occupation	University Professor
Board/Commission/Committee Name	Climate Ready Technical & Community Advisory Committee~~~13
DEMOGRAPHIC INFORMATION	
The City of San Antonio strives for boards and commissions to be representative of our diverse community. Providing the following demographic information is voluntary, and will only be used for statistical and reporting purposes.	
Race/Ethnicity (Please select all that	

apply):	White/Non-Hispanic
Gender:	Female
Age:	45 to 54
Do you identify as a sexual minority (such as lesbian, gay, bisexual, queer, etc.)?	
QUESTIONS	
Are you a City of San Antonio resident?	Yes
San Antonio Resident Length - Years	15
In which City Council District do you reside?	01
How many years have you lived in the City Council District where you reside?	15
Do you or any of your immediate family members or any businesses that you or they own currently have any direct or indirect financial interest in any contract(s) with the City, including subcontracts?	No
Will you or any of your immediate family members or any businesses that you or they own seek a contract(s) with the City in the foreseeable future?	Yes
Do you or any of your immediate family members or any businesses that you or they own have any financial interest, direct or indirect, in any sale to the City of any land, materials, supplies, or service?	No
Will you or any of your immediate family members of any businesses that you or they own seek or take part, either directly or indirectly, in any sale of land, materials, supplies, or service to the City in the foreseeable future?	No
Does your employer or an employer of your immediate family members have a contract with the City?	No
Do you or any of your family members currently serve or in the past year served as an administrative aide to a Councilmember?	No

Do you currently serve in any elected or appointed public government office?	No
Are you a member and/or officer and/or employee of any boards, commissions, corporations, non-profit entities, agencies, or other entities?	Yes
Give the title and dates of any position which you have held in such organization:	President, Society for Ecological Restoration, TX Chapter Education Committee Member, San Antonio Botanical Garden
Do you receive any compensation for service on this entity(ies)?	No
Do you intend to seek election or appointment to any public office or board or commission in the foreseeable future?	No
Have you ever been hired for a position with the City of San Antonio?	No
What expertise, and/or perspectives to you bring to the committee? Please select all areas that you believe you represent:	High Performance/Green Buildings Food Systems Natural Systems: Water/Green Infrastructure/Forestry/Biodiversity Climate Science Educational Institutions Environmental Advocacy
Please provide a brief summary of your expertise and/or perspectives.	My interest in and understanding of issues surrounding climate change runs very deep as it has been the focus of my professional life for more than 20 years. I regularly advise on anticipated environmental impacts as well as mitigation and can be counted on to consistently look for solutions. In my research, I explore questions concerning conservation biology, restoration ecology, and management of invasive species. I also conduct studies on the use of plant materials for climate change mitigation and improving food security in a changing world. I served on the Sustainability Task Force at Trinity University to develop a campus Climate Action Plan, which included a greenhouse gas emissions inventory. Our CAP was not adopted (due to a change in presidents) however, we did achieve most of the "low hanging fruit" initiatives. I am therefore very familiar with the process and the potential stumbling blocks of a CAP, to include goal setting, stake-holder buy-in, and consideration of available funding and anticipated obstacles. I also served as a member of the design team for Trinity's Center for Sciences and Innovation. This is a Gold LEED Certified building with many "green" design features, to include a green roof that I manage and was awarded a SA Tomorrow Sustainability Award in

	2018. I am therefore also broadly educated on LID technologies and innovations.
Please provide a description of your professional, educational and community/volunteer experience.	I hold a BA in International Relations and Service (specialization in Latin American affairs), MS in Plant Ecological Physiology, and a PhD in Plant Ecology. The success of my profession hinges on being able to direct and take part in meetings with many stake-holders. I have many years of experience working with large groups with many interests and I am quick to take direction from meeting leaders. I served as a Board Member for Friends of the San Antonio Natural Areas for 11 years, and as President for 3 years. In this role, I engaged regularly with City Council members and the Zoning Commission. I am currently the Board President for the Texas Chapter of the Society for Ecological Restoration and am an Associate Editor for the journal Invasive Plant Science and Management. I also give regular public lectures on climate change impacts and solutions.
Please share your interest and commitment to racial and economic justice and other social equity issues.	Before becoming a scientist, I served in a number of justice-related positions with Amnesty International and Spanish Catholic Charities. I am broadly educated on environmental justice issues and, in particular, socioeconomic factors as determinants of the magnitude of climate change impacts. I am a Fulbright Scholar (Mexico) and am trained in cross-cultural communication. Indeed, I am a graduate of American University's School for International Service, am fluent in Spanish, and have worked abroad (4 years of my professional life (Mexico, Ecuador). I also have many years of experience leading study abroad. In addition, I am a San Antonio native and am comfortable working across all local communities. As further testament to my commitment to justice issues, I currently serve as the Director of the McNair Scholars Program at Trinity, a program is designed to support first generation, low income, and underrepresented minorities in their aspirations to attend graduate school.
Please explain why you would like to serve on this committee.	Implementation of the CAAP is where the really hard work begins. As a person who prefers to work on solutions, this is an ideal place in the process for me to be involved. I believe that San Antonio is in good hands with the current administration. I would like to help in any way I can.
What potential barrier(s) may affect your participation in this committee?	
COMMITTEE MEMBER EXPECTATIONS	

Attend and actively participate in quarterly 2 hour-long meetings (Please note that Committee meetings will be televised and open to the public).	
Attend annual joint CAAP advisory committee retreat.	
Participate in CoSA Office of Equity facilitated training.	
Prepare for the quarterly meetings by reviewing the meeting agenda and completing pre-meeting homework.	
Alert City Staff of conflicts to participation.	
Assist with community and stakeholder engagement.	
Work towards successful outcomes.	
I have read and agree to adhere to the above-referenced expectations for committee member participation.	Acknowledged
SUPPORTING DOCUMENTATION	
Submit the following documentation needed to establish your eligibility. Be aware that the information you submit may be subject to verification during the application process. The information is also subject to the Texas Public Information Act and may be disclosed to the public unless otherwise protected by law. Attach scanned copies of your documentation using the Attachments panel at the bottom of this page.	
Copy of your current driver's license or other official documentation listing your Last Name, First Name, and Date of Birth.	
APPLICATION SIGN-OFF	
As a board, commission, or committee member, you will be asked to adhere to: Code of Ordinances, City of San Antonio, Part II, Chapter 2, Article IX, Sec.2-534. All board and commission members must file a Financial Disclosure Report with the Office of the City Clerk upon appointment, and annually thereafter, throughout the	

member's term. Failure to file a Financial Disclosure Report within the time required by the City's Ethics Code will be considered an automatic removal.	
I understand that if any member of the public makes a request for information included in this Application for Appointment, most of the information must be disclosed under the Public Information Act. I understand that the City of San Antonio will attempt to maintain the confidentiality of highly private matters by seeking an Attorney General's opinion in accordance with the Public Information Act. I understand that it may not be legally possible to maintain the confidentiality of such information, and I hereby release the City of San Antonio, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Public Information Act or any other law requiring its release.	Acknowledged
OATH: I have read and understand the guidelines set out in this application. The foregoing statements are true, accurate, and complete. I agree that any misrepresentation or omission of facts may result in my disqualification for appointment.	Acknowledged
Enter Your Name	Kelly Lyons
Date of submission.	2/26/2020
The Texas Public Information Act provides that each government official may choose whether to allow the public access to the information in the custody of the City that contains your home address, home telephone number, or reveals whether you have family members. Please note that this does not apply to business addresses, which are subject to public disclosure. If an open records request is filed requesting to view or obtain records that contain your personal	

information, the City will take steps to protect your personal information as authorized by the Texas Public Information Act, but only if you have elected to protect personal information.	
I want the public to have access to my Home Address.	No
I want the public to have access to my Home Telephone Number.	No
I want the public to have access to my Social Security Number.	No
I want the public to have access to my Emergency Contact Information.	No
I want the public to have access to my Family Information.	No
Please attach any additional information, such as a current resume, using the Attachments panel at the bottom of this page.	

CURRICULUM VITAE
KELLY G. LYONS

Professor
Trinity University, Department of Biology
One Trinity Place
San Antonio, TX 78212

Education

Domestic:

2002 PhD Plant Ecology. University of California, Davis.
1996 MS Plant Physiological Ecology. University of California, Davis.
1989 BA International Relations. American University, School of International Service.

Abroad:

1988 México City, México. Universidad Nacional Autónoma de México (UNAM). Fall.
1988 Madrid, Spain. Skidmore/Tufts University. Spring.
1987 Nicaragua, El Salvador, Honduras. Augsberg College. Summer.
1986 México City, México. UNAM. Summer.

Professional Experience

2019- Professor. Department of Biology, Trinity University
2010-2018 Associate Professor. Department of Biology, Trinity University.
2016- Director. Trinity University McNair Scholars Program.
2004-2010 Assistant Professor. Department of Biology, Trinity University.
2008- Adjunct Professor. Texas State University, San Marcos, TX.
2008-2011 Tutorial Faculty. McNair Scholars Program. Trinity University.
2002-2004 NSF International Post-doctoral Scholar. UNAM, Instituto de Ecología, Sonora, México.
2002-2003 Fulbright Scholar. Sonora, México.
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.
1995 Guide/Translator. University Research Expedition Program (UREP), Napo River, Ecuador.
1993 Post-graduate Researcher. USDA-ARS Aquatic Weed Lab. University of California, Davis.

Funding Awards - Research

2020 Ranches at Twin Sisters Creek. \$5,000
2020 Texas Ecolab. \$11,705
2019 Native Plant Society of Texas, San Antonio Chapter, Research Grant. \$1000
2019 Texas Ecolab. \$11,517
2018 Texas Ecolab. \$12,000
2017 NSF Research Opportunity Award. *Parsing the effects of host specificity and geography on plant-fungal symbioses under climate change*. Co-PI Dr. Jennifer Rudgers, UNM. \$50,854.
2016 Shield Ranch Foundation. *Restoration as Biocontrol in the Texas Hill Country*. \$23,000.
2008 USDA - CSREES National Research Initiative Competitive Grants Program - Biology of Weedy and Invasive Species in Agroecosystems. *Use of Plant Traits to Design Invasion Resistant Communities*. \$250,000.
2008 Native Plant Society of Texas. Ann Miller Gonzalez Research Grants for Undergraduate Students. Collaborator *Amanda Benbow. *Comparative Decomposition among Native and Non-indigenous Grasses of the Texas Hill Country*.
2007-2015 Texas Ecolab. Awards various. \$55,000.
2005-2015 Trinity University, Office of Academic Affairs, Research Stipend ('05, '07, '13, '15). \$7000/yr.
2005 Ecological Society of America SEEDS Program, Travel grant, Montreal, Canada.
2005 Consortium of the Americas for Interdisciplinary Science. Invasive Species Reconnaissance, Quintana Roo, Mexico.

2002	NSF International Post-doctoral Research Fellowship. Sonora, Mexico. \$65,000.
2002	Fulbright-Garcia Robles Scholarship, U.S. State Department and COMEXUS. Sonora, Mexico.
2001	Forrest Shreve Desert Research Fund, Ecological Society of America Research Grant.
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.
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 Research Grant.
1994-2000	Henry A. Jastro Fellowship, University of California, Davis - awards various

Funding Awards - Education

2017	U.S. Department of Education. Trinity University McNair Scholars Program. \$1,160,000/5 years.
2016	National Fish and Wildlife Foundation. <i>Pollinator Education and Action for Sustainability (PEAS) Program</i> . Co-PI Hayley Sayrs, Trinity Alumna. \$35,000.
2015	Trinity University Collaborative, Travel Grant. Texas Institute for Discovery Education in Science. Course-based Undergraduate Research Experience (CURE) Workshop.
2013	Trinity University Collaborative, Course Redesign Grant. Funding to convert traditional introductory biology laboratories to CURE approaches.
2007	Trinity University Languages Across the Curriculum (LAC) Travel Grant. Funding for travel to Mexico to collect materials for Biodiversidad y Conservación en México course.
2006	Trinity University, Office of Academic Affairs Curricular and Pedagogical Innovations Grant. Implemented classroom response system in introductory biology course.
2006	Associated Colleges of the South. Restoration Teaching Garden. Community Collaboration Grant, Trinity 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 proposal. Participated in summer research program.

Courses Taught (*interdisciplinary courses, ^{ab}study abroad, ^{aw}study away)

Introductory Biology Lecture and Lab, Botany, Ecology, Conservation Biology, First Year Seminar - Sex and Conflict, Sostenibilidad en México^{*ab}, Biodiversidad y Conservación en México^{*ab}, Environmental Studies Field School at High Lonesome Ranch^{*aw}, First Year Experience - Global Climate Change*, Sustainability and the Environment in Cuba^{*ab}, Ecological Civilizations of China^{*ab}

Peer-reviewed Publications (*undergraduate co-author)

2015	Havill, S., Schwinnning, S., Lyons , K.G. Fire effects on invasive and native warm-season grass species in a North American grassland at a time of extreme drought. <i>Applied Vegetation Science</i> 18(4): 637-649.
2015	Leonard, W., Lyons , K. The use of commercial bacterial soil inoculant regime in an urban prairie restoration. <i>Natural Areas Journal</i> 35(1): 9-17.
2013	Lyons , K., *Maldonado-Leal, B.G., Owen, G. Community and ecosystem impacts of buffelgrass (<i>Pennisetum ciliare</i>) and nitrogen addition in the Sonoran Desert. <i>Invasive Plant Science and Management</i> 6(1): 65-78.
2012	Ruckman, E., *Robinson, T., Schwinnning, S., Lyons , K. Comparative seed heat tolerances among native and non-indigenous, invasive grassland species: Implications for selective management using fire. <i>Ecological Restoration</i> 30(2):136-142.
2012	Ruckman, E., Schwinnning, S., Lyons , K. Effects of phenology at burn-time on fire recovery in an invasive grass. <i>Restoration Ecology</i> 20(6):756-763.
2010	Lyons , K.G., Schwartz, M.W., Shapiro, A. Distribution and ecotypic variation of the invasive annual barb goatgrass (<i>Aegilops triuncialis</i>) on serpentine soil. <i>Invasive Plant Science and Management</i> 3(4):376-389.
2010	Lyons , K.G., *McCarthy, W.A. Early Decomposition of <i>Juniperus ashei</i> (Ashe Juniper) wood as a function of microclimate: implications for grassland restoration. <i>Rangeland Ecology and Management</i> . 63(3):359-365.

2009 **Lyons**, K.G., *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.

2009 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.

Peer-reviewed Publications in Review or Prep (*undergraduate co-author)

In review **Lyons**, Kelly G., Mann, M. *Lenihan, M., *Roybal, O., *Carroll, K., *Reynoso, K., Kivlin, S.N., Taylor, D.L., Rudgers, J.A. Culturable root endophytes under experimental warming and along elevation gradients in the Rocky Mountains. Submitted to *Fungal Ecology*.

In prep **Lyons**, K.G., Robinson, C. Mass ratio and species identity determine effectiveness of restoration as biocontrol in invaded grassland. Target journal: *Restoration Ecology*

In prep **Lyons**, K.G., *Carroll, K., *Lenihan, M., *Reynoso, K., *Roybal, O. The effects of sterilization and stratification on the germination rates of Texas native milkweed species. Target journal: *Ecological Restoration*.

Popular Media, Technical Reports, Book Chapters, Reviews

2016 **Lyons**, K.G., Johnson, M., Murphy, T., Ribble, D. [We don't need no stinkin' leashes](#). Rivard Report. Commentary on feral cats.

2013 **Lyons**, K.G., Prather, T. Book Review, Invasive Plant Ecology in Natural and Agricultural Systems. 2nd ed. Barbara D. Booth, Stephen D. Murphy, and Clarence J. Swanton. Oxfordshire, UK: CAB International. 2011. 208. p. Paperback. Price \$70.00. ISBN-13 978-1-84593-605-1. SB 611.B59. *Invasive Plant Science and Management*

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. *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 and Panels - Academic

2020 *Panel on Climate and Global Health*. UT Health. San Antonio, January.

2019 *Climate Considerations for Global Health*. UT Health. San Antonio. January.

2018 *Climate Considerations for Global Health*. UT Health. San Antonio. January.

2017 *Restoration as Biocontrol: Merging Theory and Management*. University of Houston, Department of Biology and Biochemistry. May.

2016 *Climate Considerations for Global Health*. UT Health. San Antonio. January.

2011 *Community and Ecosystem Dynamics of Invasion Resistance*. Texas A&M University at College Station, Department of Ecology and Evolutionary Biology. October.

2010 *Using Restoration to Control Invasive C4 Grasses*. University of Texas, San Antonio, TX. March.

2008 *Community and Ecosystem Impacts of Pennisetum ciliare (Buffelgrass) in the Sonoran Desert, Sonora, México*. Texas State University, Department of Biology, San Marcos, TX. December.

2007 *Research on Integrating Biotic and Abiotic Methods of Control for the Invasive, C4 grass KR Bluestem in a Land Owner-Investigator Collaboration*. Texas Invasive Plants Conference, Old World Bluestem Symposium. LBJ Wildflower Center, Austin, TX. November.

2007 *Integrating Research in Invasion Biology and Restoration Ecology into Protected Area Management*. Panel. Ecological Society of America Annual Meeting, San Jose, CA. August.

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 *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.

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, Estación del Noroeste, Hermosillo, Sonora, México. April.

2003 *Pennisetum ciliare (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 (*denotes undergraduate student)

2019 *Restoration as Biocontrol: Mass-Ratio or Diversity-Invasion Theory as Guiding Principle?* Lyons, K.G., Robinson, C.D. Texas Society for Ecological Restoration. Galveston, TX.

2019 *Root Endophyte Diversity Among Texas Native and Non-Native Grasses.* *Cassingham, S., *Gerick, M., *Kopcho, M., *Leonard, M., Lyons, K.G. Texas Society for Ecological Restoration. Galveston, TX.

2019 *Restoration as Biocontrol: Mass-Ratio or Diversity-Invasion Theory as Guiding Principle?* Lyons, K.G., Robinson, C.D. Society for Ecological Restoration, World Conference, Cape Town, South Africa.

2018 *Variation in Growth of KR (Bothriochloa ischaemum) and Little (Schizachyrium scoparium) Bluestem in the Presence and Absence of Field-Collected Fungal Endophytes.* *Roybal, O., *Horr, D., **Lyons**, K.G. Texas Society for Ecological Restoration. San Antonio, TX.

2017 *Grassland restoration and KR Control: A multi-site and multi-stakeholder project supported by the Shield Ranch.* **Lyons**, K. McCaw, M., Reemts, C., Theusen, K. Texas Society for Ecological Restoration. Denton, TX.

2017 *The effects of warming and altitude on the distribution of root fungal endophytes.* *Lenihan, M., *Reynoso, K., *Carrol, K., *Roybal, O., Rudgers, J.A., **Lyons**, K.G. Texas Society for Ecological Restoration. Denton, TX.

2017 *The effect of disinfectant and stratification on the germination rates of five North American milkweed species.* *Carroll, K., *Roybal, O., **Lyons**, K.G. Texas Society for Ecological Restoration. Denton, TX.

2017 *Teaching Climate Change Across the Curriculum: the first-year experience at Trinity University.* **Lyons**, K.G., Ribble, D., Surpless, B. AASHE Conference & Expo, San Antonio, TX.

2017 *Evaluating the Sustainability Outcomes Beyond LEED of Trinity University's Center for the Sciences and Innovation.* Ribble, D., Locaino, T., **Lyons**, K. AASHE Conference & Expo, San Antonio, TX.

2017 *Growing Healthy Kids: A Partnership among Gardopia Gardens, University of Incarnate Word, and Trinity University.* Sayrs, H., Lucke, S., Dominguez, D., **Lyons**, K. AASHE Conference & Expo, San Antonio, TX.

2017 *Multi-site and Multi-Stakeholder Grassland Restoration in the Southern Great Plains, USA: Integrating Land Owners and Managers, Conservationists, and Scientists.* **Lyons**, K.G. Society for Ecological Restoration World Conference, Iguazu Falls, Brazil.

2016 *Control of Johnsongrass on the Llano River Comparing Physical Removal, Herbicide, and Restoration as Biocontrol.* *Lenihan, M., *Phillippe, A., **Lyons**, K. Texas Society for Ecological Restoration. Livingstone, TX.

2016 *A Comparison of Germination Rates with Three Sterilization Treatments in Three *Asclepias* Species.* *Hospeti, L., *Roybal, O., **Lyons**, K. Texas Society for Ecological Restoration. Livingstone, TX.

2016 *Ecological Civilization in China: Trinity University Faculty-Student Undergraduate Environmental Research in Yunnan, China.* *Belew, N., **Lyons**, K.G. Southwestern Conference for Asian Studies. San Antonio, TX.

2015 *Use of Competitive Dynamics to Inform Species Selection for Restoration.* **Lyons**, K.G., *Schultz, K., *Adams, A., *Tansey, E., Elaydi, S., Kwessi, E. Texas Society for Ecological Restoration. San Antonio, TX.

2015 *The Consequences of Changes in Grassland Species Composition on Rangeland Forage Value and Nutrient Cycling.* *Phillippe, A., **Lyons**, K.G. Texas Society for Ecological Restoration. San Antonio, TX. **3rd Place Individual Plant Identification Contest; 2nd Place Team Plant Identification Contest.**

2015 *The Effects of Density in a Three-Species System of Texas C4 Grasses.* *Adams, A., **Lyons**, K.G. Texas Society for Ecological Restoration. San Antonio, TX. **Best Undergraduate Talk Award; 2nd Place Team Plant Identification Contest.**

2015 *Can Models of Competitive Dynamics Inform Species Selection for Restoration?* **Lyons**, K.G., Kwessi, E., *Adams, A., *Schultz, K. World Meeting, Society for Ecological Restoration. Manchester, UK.

2014 *Development of an Experiment to Assess Native Grass Re-establishment as a Function of Cedar-Clearing and Establishment Technique.* *VanHorn, E., *Phillippe, A. Texas Society for Ecological Restoration. Junction, TX. **Best Undergraduate Poster Award.**

2014 *Modeling the Competitive Dynamics Between Native and Invasive Grasses Under Varying Light Conditions.* *Schultz, K., *Adams, A. Texas Society for Ecological Restoration.

Junction, TX. **Best Undergraduate Talk Award.**

2013 *Assessing Ashe Juniper (*Juniperus ashei*) mode of removal on grassland species composition in the Texas Hill Country.* *Bradshaw, C., *VanHorn, E., **Lyons**, K. Texas Society for Ecological Restoration. Junction, TX. **Best Undergraduate Poster Award.**

2013 *Utilizing Mechanisms of competition to guide integrated pest management of KR bluestem (*Bothriochloa ischaemum*).* **Lyons**, K. Texas Society for Ecological Restoration. Junction, TX.

2013 *Symposium: Framing the Cross-Continental Dialogue on Limitations to Grassland Restoration.* **Lyons**, K.G. and Temperton, V. (Symposium organizers). International Society for Ecological Restoration, Madison, WI.

2013 *A case study to examine future directions of modeling niche differences and relative fitness differences relevant to restoration.* *Tansey, E., **Lyons**, K.G. International Society for Ecological Restoration, Madison, WI.

2013 *Restoration under exceptional droughts: Mass ratio or diversity-invasion theory as a guiding principle?* **Lyons**, K. British Ecological Society + International Ecological Society Conference, London.

2013 *Spatial Modeling of Inter- and Intraspecific Competition of a Native and Invasive Grass Species* *Afflerbach, C.E., *Schultz, K., *Tansey, E., Kwessi, E., **Lyons**, K.G. Weed Science Society of America. Baltimore, MD.

2013 *Comparison of Microbial Communities within Rhizospheres of Native Grass Species Little Bluestem, *Schizachyrium scoparium*, and King Ranch Bluestem, *Bothriochloa ischaemum*.* *Banick, K., *Schoenemann, K., Healy, F., **Lyons**, K.G. Weed Science Society of America. Baltimore, MD.

2013 *An Examination of the Presence and Abundance of Mycorrhizal Fungi on Native and Invasive Perennial Grass Species.* *Afflerbach, C., *Banick, K.M., **Lyons**, K.G. Weed Science Society of America. Baltimore, MD.

2013 *Mechanisms of Competition in Yellow Bluestem (*Bothriochloa ischaemum*).* **Lyons**, K. Weed Science Society of America. Baltimore, MD.

2012 *Applying the diversity-invasion hypothesis to test restoration as biocontrol.* **Lyons**, K. Weed Science Society of America. Texas Society for Ecological Restoration. McAllen, TX.

2012 *The influence of mycorrhizal fungi and nitrogen addition on competition between a native and invasive perennial grass.* *Afflerbach, C., **Lyons**, K. Texas Society for Ecological Restoration. McAllen, TX. **Best Undergraduate Talk Award.**

2012 *Applying the diversity-invasion hypothesis to restoration as biocontrol.* **Lyons**, K.G. Weed Science Society of America. Kona, HI.

2012 *Modeling competitive dynamics in two perennial grasses as mediated by a nitrogen gradient and mycorrhizal fungi.* *Afflerbach, C., *Rabat, R., *Banick, K., Elaydi, S., **Lyons**, K.G. Weed Science Society of America. Kona, HI.

2012 *The role of mycorrhizal fungi in mediating competition between native and invasive perennial grass species across a nitrogen gradient.* *Afflerbach, C., *Rabat, R., *Banick, K.M., **Lyons**, K.G. Weed Science Society of America. Kona, HI.

2012 *The effects of herbivory and granivory on competition between invasive KR Bluestem (*Bothriochloa ischaemum*) and native grasses.* *Miranda, A., *Loos, J., **Lyons**, K. Weed Science Society of America. Kona, HI.

2011 *Modeling competitive dynamics in two perennial grasses as mediated by a nitrogen gradient and mycorrhizal fungi.* *Afflerbach, C., *Rabat, R., *Banick, K., Elaydi, S., **Lyons**, K.G. Third International Conference on Mathematical Modeling and Analysis of Populations in Biological Systems. San Antonio, TX.

2011 *Applying the diversity-invasion hypothesis to test restoration as biocontrol.* International Society of Ecological Restoration Conference. Merida, Mexico.

2011 *Applying the diversity-invasion hypothesis to test restoration as biocontrol.* Ecological Society of America Conference. Austin, TX.

2011 *Designing invasion resistant perennial grassland communities for restoration.* USDA-NIFA Weeds and Invasive Species in Agronomic Systems Project Director's meeting. Washington, DC.

2010 *Relative differences in establishment and persistence of native grassland species restored from seed and plug.* Texas Society for Ecological Restoration. Tyler, TX.

2010 *Heat tolerance among native grasses and *Bothriochloa ischaemum* (KR Bluestem): implications for invasive species management using prescribed fire.* Weed Science Society of America Conference.

2009 *Testing the resource use overlap hypothesis in invasive species control.* *Nguyen, H.N., **Lyons**, K.G. Texas Invasive Plant and Pest Council Conference, San Antonio, TX.

2009 *Comparison of Seed Heat Sensitivity among Native Species and KR Bluestem: Implications for Invasive Species Management and Restoration using Prescribed Fire.* *Robinson, T.R., Ruckman, E., **Lyons**, K.G. Texas Invasive Plant and Pest Council Conference, San Antonio, TX.

2009 *Analysis of Decomposition and Nutrient Cycling in Native Grasses and Bothriochloa ischaemum (KR Bluestem).* *Benbow, A., **Lyons**, K. Texas Invasive Plant and Pest Council Conference, San Antonio, TX.

2009 *Testing the resource use overlap hypothesis in invasive species control.* *Nguyen, H.N., **Lyons**, K.G. Texas Society for Ecological Restoration, New Braunfels, TX.

2009 *Comparison of Seed Heat Sensitivity among Native Species and KR Bluestem: Implications for Invasive Species Management and Restoration using Prescribed Fire.* *Robinson, T.R., Ruckman, E., **Lyons**, K.G. Texas Society for Ecological Restoration, New Braunfels, TX.

2009 *Analysis of Decomposition and Nutrient Cycling in Native Grasses and Bothriochloa ischaemum (KR Bluestem).* *Benbow, A., **Lyons**, K. Texas Society for Ecological Restoration, New Braunfels, TX.

2009 *Testing the resource use overlap hypothesis in invasive species control.* *Nguyen, H.N., **Lyons**, K.G. Ecological Society of America Annual Conference, Albuquerque, N.M.

2009 *Comparison of Seed Heat Sensitivity among Native Species and KR Bluestem: Implications for Invasive Species Management and Restoration using Prescribed Fire.* *Robinson, T.R., Ruckman, E., **Lyons**, K.G. Ecological Society of America Annual Conference, Albuquerque, N.M.

2009 *Analysis of Decomposition and Nutrient Cycling in Native Grasses and Bothriochloa ischaemum (KR Bluestem).* *Benbow, A., **Lyons**, K. Ecological Society of America Annual Conference. Albuquerque, N.M.

2008 *Designing Invasion Resistant Communities in the Texas Hill Country.* Central Texas Ecologists Annual Meeting, Austin, TX.

2007 *Decomposition & Nutrient Cycling in Juniperus ashei (Cedar) Mulch.* *McCarthy, W.A., **Lyons**, K.G. Ecological Society of America Annual Conference, San Jose, CA.

2006 *Community and ecosystem impacts of Pennisetum ciliare (Buffelgrass) in the Sonoran Desert, Sonora, Mexico.* Weeds Across Borders Conference. Hermosillo, Sonora, Mexico.

2005 *Community and ecosystem impacts of a C4 grass Pennisetum ciliare (Buffelgrass) in the Sonoran Desert.* Ecological Society of America. Montreal, Canada.

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.

2004 *Diversity, dominance and species composition as determinants of non-indigenous, invasive species fitness.* Society for Ecological Restoration, Texas Chapter, Denton, TX.

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.

2002 *Diversity and exotic species success in ex-situ assembled communities.* Ecological Society of America. Tucson, AZ.

Invited Talks and Panels - Broader Community

2019 [Ecosystem Diversity Matters: Why Invasives are a Bad Thing.](#) San Antonio Botanical Garden Lunch, San Antonio, TX.

2019 *Keynote Address:* Trinity University, Summer Research Symposium, San Antonio, TX.

2017 *Eating Your Way Through the Evolution of Plant Fruits.* Master Gardeners, Comal Chapter, TX.

2017 *Revealing Fruits.* San Antonio Botanical Garden, San Antonio, TX

2017 *Keynote Speaker: San Antonio March for Science.* San Antonio, TX

2015 *Nitrogen in our Landscape: Beyond Bluebonnets.* Master Gardeners, Seguin Chapter, TX.

2013 *Legumes and Landscape: Beyond Bluebonnets.* Native Plant Society, Texas. San Antonio, TX.

2012 *Invasion Stories.* Pecha Kucha talk, American Institute of Architects. San Antonio, TX.

2012 *A Primer on Plant Evolution.* San Antonio Botanical Garden Lecture Series. San Antonio, TX.

2012 *Invasion Stories.* Texas Master Naturalists, San Antonio Chapter. San Antonio, TX.

2011 *Humans as the Ultimate Invasion Machine.* Land Heritage Institute. San Antonio, TX.

2010 *Constructing Invasion-resistant Communities for Bio-control in Texas Grasslands.* Mensa Society of San Antonio, TX.

2010 *Basics of Plant Morphology for Plant Identification.* Texas Native Plant Society, San Antonio Chapter.

2009 *Where have all the Bluebonnets gone? Constructing Invasion-resistant Communities for South Texas Grasslands.* Friends of Friedrich Wilderness Park Nature Discovery Series, San Antonio, TX.

2008 *Where have all the Bluebonnets gone? Somebody Messed With Texas Wildflowers.* Bexar County Audubon Society.

2006 *Invasion of native and exotic grasses following removal of Juniperus ashei (Cedar) in the Texas Hill Country.* Cibolo Creek Nature Center, Boerne, TX.

2006 *Diversity, Invasion and Restoration of Native Species.* Texas Native Plant Society, San Antonio Chapter.

2005 *Securing the Homeland from Invasive Species: What's Diversity Got to do with it?* Trinity University Faculty Research Dinner.

Professional Service

2007- Associate Editor. *Invasive Plant Science and Management.* Journal of the Weed Science Society of America. Cambridge Press.

2017- President. Society for Ecological Restoration, Texas Chapter

2019 Panelist. NSF DEB Full-Proposals.

2017 External Reviewer. USFWS TX Coastal Bend Short-grass Paririe Multi-species Recovery Plan.

2013-2016 Vice President. Society for Ecological Restoration, Texas Chapter

2014 Panelist. NSF Doctoral Dissertaion Improvement Grant Program.

2014 Panelist. NSF DEB Pre-proposals.

2011 Panelist. USDA-NIFA NRI Competitive Grants Program - Biology of Weedy and Invasive Species in Agroecosystems.

2010 Panelist. NSF Doctoral Dissertation Improvement Grant Program.

2007-2009 Member. TX Invasive Pest and Plant Council (TX-IPPC), Species Selection Committee.

University Service

2019 Member. Promotion and Tenure Commission

2019 Chair. Department of Biology Distinguished Professor Search Committee

2019 Member. Semmes Scholarship Selection Committee

2017 Member. Teaching Collaborative Director Search

2017 Member. Big Ideas Initiative for Environmental Entrepreneurshhip and Sustainability

2016-2017 Member. Course Scheduling Committee

2016 Coordinator. [Professor Watch List Protest](#).

2014- Coordinator. Center for Sciences and Innovation Green Roof

2013- Professor of Record. Student-Directed Garden and Gardening in South Texas Course

2013-2015 Chair. Employee Benefits Committee

2011-2013 Chair. Sustainability Committee

2009-2013 Member. Center for Sciences and Innovation (CSI) Design Committee, Biology Representative.

2009-2011 Member. Employee Benefits Committee.

2009-2015 Research Mentor. Integrated Research in Biomathematics.

2008- Member. Environmental Studies Faculty Advisory Committee.

2005-2015 Member. Mexico, the Americas, and Spain (MAS) Executive Committee.

2004- Member. Languages Across the Curriculum (LAC) Committee.

2007-2011 Member. President's Task Force on Environmental Sustainability.

2005 Member. Faculty Development Committee.

2005 Member. Sherman-Fairchild Summer UG Research Proposal Development Committee.

Community Service

2014-2017 President. Friends of San Antonio Natural Areas (FoSANA).

2015 External Reviewer. San Antonio City Public Service (CPS), Habitat Conservation Plan

2014- Consultant. Garden Design and Implementation, SARA Confluence Park.

2009-2013 Research Mentor. Upward Bound.

2006-2014 Board Member. Friends of Friedrich Wilderness Preserve (now FoSANA).

2006, 2008	Visiting University Professor. Trinity's HHMI Active Learning Institute, Teachers as Scholars Program, Mark Twain and Harris Middle Schools, San Antonio, TX.
2000-2002	Tree Commissioner. 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

AAAS, Ecological Society of America, Society for Ecological Restoration, Weed Science Society of America, Council for Undergraduate Research, The Nature Conservancy.

Language Ability

Fluent in Spanish
Knowledge of French

