

Benjamin Theodore Wilder, Ph.D.

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EDUCATION

- Ph.D. 2014. University of California, Riverside, Dept. Botany and Plant Sciences. Advisor: Exequiel Ezcurra, Dissertation: Historical Biogeography of the Midriff Islands, Gulf of California, Mexico.
- B.Sc. 2006. University of Arizona, Tucson Arizona, Major in Ecology and Evolutionary Biology Cum Laude and Honors.

APPOINTMENTS

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| 2018-present | Director. Desert Laboratory on Tumamoc Hill, University of Arizona, Research Innovation and Impact. |
| 2016-2018 | Interim Director. Desert Laboratory on Tumamoc Hill, University of Arizona, Research Innovation and Impact. |
| 2015-present | Coordinator. University of Arizona, Consortium for Arizona-Mexico Arid Environments (CAZMEX). |
| 2011-present | co-Founder and Director. Next Generation Sonoran Desert Researchers. |
| 2017-present | Associate Research Scientist. School of Natural Resources and the Environment, University of Arizona. |
| 2018-present | Associated Faculty. Center for Latin American Studies, University of Arizona |
| 2015 | Visiting Scholar. Stanford University, Dirzo Lab, Biology Dept. |
| 2014-2015 | Visiting Researcher. UC, Berkeley, Baldwin Lab and UC Herbarium. |
| 2009-2014 | Research Assistant. UC, Riverside, Dept. Botany and Plant Sciences. |
| 2005-2013 | Independent Researcher. Plant Life of a Desert Archipelago: Flora of the Sonoran Islands in Gulf of California, Mexico. <i>Dr. Richard Felger, Mentor.</i> |
| 2009 | Project leader. Matching of Historic Photographs in the Plains of Sonora. |
| 2004-2008 | Research Assistant. The Desert Laboratory at Tumamoc Hill, University of Arizona Buffelgrass Control Project. <i>Dr. Julio Betancourt, Mentor.</i> |
| 2005-2006 | Assistant Curator. University of Arizona Herbarium. |

AWARDS & FELLOWSHIPS

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|------------------|--|
| 2017, 2018 | Agnese Nelms Haury Faculty Fellow (\$76,000) |
| 2014 | Finalist, David H. Smith Conservation Research Fellowship |
| 2013-2014 | Dissertation Year Program Fellowship, UC Riverside (\$14,400) |
| 2013 | Graduate Student Achievement Award, UC Riverside (\$900) |
| 2010, 2011, 2013 | National Science Foundation Graduate Research Fellowship (\$90,000) |
| 2012, 2014 | Chancellor's Distinguished Fellowship Award, UC Riverside (\$57,600) |
| 2006-2007 | Leslie N. Goodding Memorial Scholarship (\$2,600) |
| 2006 | Outstanding Senior Award, EEB, University of Arizona |
| 2005 | University of Arizona/NASA Spacegrant Fellow (\$1,500) |

GRANTS

- 2020 *Eliminating Buffelgrass from Tumamoc Hill: A Plan to Preserve a Community Treasure*
Arizona Department of Forestry and Fire Management (**\$105,000**)
Co-pi with Dr. Kimberly Franklin, Arizona-Sonora Desert Museum
Next Generation Sonoran Desert Researchers: Sustainability and Targeted Action
JiJi Foundation (**\$30,000**)
- 2019 *Collaborative Research: Testing evolutionary pseudocongruence along the Baja California peninsula through integration of geologic and genomic data*
NSF EAR Frontier Research in Earth Sciences (**\$2,600,000; \$694,000 UA**)
PIs: Wilder (UA), Dorsey (U. Oregon), Dolby (ASU), Hausback (Cal State Sacramento)
- 2018 *Tumamoc Hill Meteorological Network and Paleo Research Infrastructure*
University of Arizona Water, Environmental, and Energy Solutions (WEES)-TRIF Equipment Grant (**\$121,505**)
Making a stand against buffelgrass in the heart of Tucson
Arizona Department of Forestry and Fire Management (**\$20,000**)
A Living Laboratory: Forging Connection Between UA Students and Tumamoc Hill to Monitor the Pulse of the Desert
Co-pi with Dr. Aaron Flesch
University of Arizona Green Fund (**\$23,625**)
Botanical Diversity and Change of Volcán Tres Virgenes
Annetta Carter Memorial Fund of the California Botanical Society (**\$1,000**)
Cuentame Más: Understanding the Tucson Community Through Tumamoc Hill
Centre National de la Recherche Scientifique (CNRS) (**€ 5,000**)
Next Generation Sonoran Desert Researchers: Research Grants Program
JiJi Foundation (**\$25,000**)
- 2017 *The Desert Laboratory Library and Map Room*
Southwestern Foundation for Education and Historical Preservation (**\$16,000**)
The Desert Laboratory Greenhouse Rehabilitation Project
U.S. National Park Service, Heritage Partnerships Program (**\$10,000**)
Tumamoc Transdisciplinary Arts Program
University of Arizona Confluentcenter (**\$15,000**)
Next Generation Sonoran Desert Researchers 6&6 Art-Science Collaboration
University of Arizona Confluentcenter (**\$5,000**)
Next Generation Sonoran Desert Researchers: Research Grants Program
Marisla Foundation (**\$30,000**)
JiJi Foundation (**\$25,000**)

- 2016 *Baselines for the wetlands of the Gran Desierto*
 U.S. National Park Service, Southwest Border Resource Protection Program
(\$50,000)
Workshop, Communicating Science Up and Down in the Gulf of California
 Agnese Nelms Haury Program **(\$20,000)**
- 2015 *Knowledge Transfer in Northwestern Mexico: Conservation Ecology Courses to Create Local Leaders Among the Comcaac*
 The Christensen Fund **(\$40,000)**
 U.S. Fish and Wildlife Service, Wildlife Without Borders – Mexico **(\$45,000)**
Biodiversity of Los Cardones, Sierra de la Laguna, Baja California Sur, Mexico.
 Co-pi with Dr. Vanderplank and Dr. Exequiel Ezcurra.
 International Community Foundation and partner foundations **(\$55,000)**
Land-Sea Interface of Cabo Pulmo. Co-pi with Dr. Ocatvio Aburto
 Angell Family Foundation **(\$25,000)**
Next Generation Sonoran Desert Researchers 2015 Summit
 The Marisla Foundation **(\$30,000)**
 The University of Arizona, CAZMEX **(\$25,000)**
 JiJi Foundation **(\$12,000)**
- 2013–2014 *Uncovering the Dryland Biodiversity of the Cabo Pulmo Region*
 Co-pi with Dr. Vanderplank and Dr. Exequiel Ezcurra
 The David and Lucile Packard Foundation and Ocean Foundation **(\$20,000)**
- 2012–2013 *Scientific Capacity Building in the Comcaac Community*
 The Christensen Fund **(\$15,000)**
Historical Plant Biogeography of the Midriff Islands of the Gulf of California
 UC MEXUS Dissertation Research Grant **(\$12,000)**
- 2012 *Next Generation Sonoran Desert Researchers Summit*
 UC MEXUS **(\$20,000)**
 The Marisla Foundation **(\$20,000)**
 The David and Lucile Packard Foundation **(\$10,000)**
 The University of Arizona College of Science **(\$5,000)**
 The JiJi Foundation **(\$3,000)**
 Center for Conservation Biology, UC, Riverside **(\$1,200)**
 The Sonoran Institute **(\$1,000)**
- 2011 *Historical Plant Biogeography of the Midriff Islands of the Gulf of California: 2011 Field Season*
 UC MEXUS Small Grants **(\$3,000)**
- 2009 *Support of the Publication of Plant Life of a Desert Archipelago*
 CONABIO **(\$5,000)**
- 2008–2009 *Islands of Opportunity: Botanical Diversity of the Sonoran Islands, Gulf of California, Mexico.* Co-pi with Dr. Richard Felger
 The David and Lucile Packard Foundation **(\$115,000)**

- 2008 *Assessment and Control of Non-native Invasive Plant Species, Sonoran Islands, Gulf of California*
Global Green Grants (**\$3,500**)
Exploration of Higher Elevations of Isla Tiburón
T&E Inc. of New Mexico (**\$1,750**)
- 2007–2008 *Reassessment of the vegetation and flora of Islas San Pedro Martir and San Pedro Nolasco, Gulf of California*. Co-pi with Dr. Richard Felger
WWF México Programa Golfo de California (**\$15,440**)
- 2006–2007 *Vascular flora of Isla Tiburón and satellite islands, Gulf of California, Mexico*
Cactus and Succulent Society of America, Research Grants Program (**\$1,400**)
- 2005 *Flora of Isla Tiburón, Gulf of California, Mexico*
University of Arizona Honors College, Alumni Legacy Grants (**\$400**)
Arizona-Nevada Academy of Science (**\$200**)

PUBLICATIONS

Book

Felger, R.S., **B.T. Wilder** in collaboration with H. Romero-Morales. 2012. *Plant Life of a Desert Archipelago: Flora of the Sonoran Islands in the Gulf of California*. University of Arizona Press, Tucson. 624 pages.

Peer-reviewed papers and book chapters

25. **B.T. Wilder**, A.T. Becker, D.L. Dettman. *In review by PNAS*. Marine Subsidies Produce Cactus Forest on Desert Island.
24. Clark, S.E., E. Magrane, T. Baumgartner, S.E.K. Bennett, M. Bogan, T. Edwards, M.A. Dimmitt, H. Green, C. Hedgcock, B.M. Johnson, M.R. Johnson, K. Velo, and *B.T. Wilder*. *In review by BioScience*. 6&6: A Transdisciplinary Approach to Art-Science Collaboration.
23. Zamora, H.A., **B.T. Wilder**, C.J. Eastoe, J.C. McIntosh, J. Welker, K.W. Flessa. 2019. Evaluation of Groundwater Sources, Flow Paths, and Residence Time of the Gran Desierto Pozos, Sonora, Mexico. *Geosciences*, 9, 378; doi:10.3390/geosciences9090378
Media coverage: [Arizona Daily Star](#), [MAHB](#)
22. **Wilder, B.T.**, R.S. Felger, E. Ezcurra. 2019. Controls of plant diversity and composition on a desert archipelago. *PeerJ* 7:e7286, doi: 10.7717/peerj.7286
21. Ezcurra, E., **B.T. Wilder**. 2019. Tres siglos de colaboración científica entre México y los Estados Unidos. *Ciencia* 70:8–15.
20. Gil-Loaiza J., Lutz Ley A.N., **Wilder B.T.**, Lever J., Ruiz J., Scott, C.A. 2019. La ciencia cruzando fronteras: Consorcio Arizona-México para Ambientes Áridos. *Ciencia* 70:56–63.
19. Armenta-Méndez, L., M.M. Ortega-Nieblas, J.P. Gallo-Reynoso, A.A. Gardea, **B.T. Wilder**, G. González-Aguilar, & A.M. Preciado-Saldaña. 2019. Proximal chemical analysis and secondary metabolites in *Washingtonia robusta* fruit (Arecaceae): relevance for the feeding of wildlife and humans. *Botanical Sciences* 97 :155–166.
DOI: <http://dx.doi.org/10.17129/botsci.2057>

18. **Wilder, B.T.**, C. O'Meara, L. Monti, G. Nabhan. 2016. The importance of indigenous knowledge in curbing the loss of language and biodiversity. *BioScience* 66:499–509.
17. **Wilder, B.T.**, C. O'Meara, L. Monti, G. Nabhan. 2016. Ethnoscience, the “Oldest Science”: A needed complement to academic science and citizen science to stem to the losses of biodiversity, indigenous languages, and livelihoods. In Nabhan, G. (ed) *Ethnobiology for the Future*. University of Arizona Press. Pp. 23–35.
16. O'Meara, C., **B.T. Wilder** (eds). 2015. Seeds in the Sand: The next generation of approaches to understanding the Sonoran Desert and Gulf of California. *Journal of the Southwest*.
15. **Wilder, B.T.**, C. O'Meara. 2015. The Continuum of Desert Research. In O'Meara, C., **B.T. Wilder** (eds.) Seeds in the Sand: The next generation of approaches to understanding the Sonoran Desert and Gulf of California. *Journal of the Southwest* 57:163–186.
14. Dolby, G. Bennett, S.E.K., A. Lira-Noriega, **B.T. Wilder**, A. Munguia-Vega. 2015. The Geologic and Climatic Forcing of Biodiversity Surrounding the Gulf of California. In, O'Meara, C., **B.T. Wilder** (eds.) Seeds in the Sand: The next generation of approaches to understanding the Sonoran Desert and Gulf of California. *Journal of the Southwest* 57:391–455.
13. **Wilder, B.T.** 2014. Historical Biogeography of the Midriff Islands in the Gulf of California, Mexico. Dissertation, UC, Riverside, Plant Biology.
12. Ratay, S.E., S. Vanderplank, **B.T. Wilder**. 2014. Island specialists: Shared flora of the Alta and Baja California Pacific islands. *Western North American Naturalist* 7:161–220.
11. **Wilder, B.T.**, J.L. Betancourt, C. Epps, R. Crowhurst, J.I. Mead, E. Ezcurra. 2014. Local extinction and unintentional rewilding of bighorn sheep (*Ovis canadensis*) on a desert island. *PLoS ONE* 9(3): e91358. doi:10.1371/journal.pone.0091358.
Media coverage: 35+ unique articles in Spanish and English including [La Jornada](#), [NSF](#), and [The Last Word on Nothing](#).
10. Velarde, E., **B.T. Wilder**, R.S. Felger, E. Ezcurra. 2014. Floristic diversity and dynamics of Isla Rasa, Gulf of California, Mexico – A globally important seabird site. *Botanical Sciences* 92(1):89–101.
9. **Wilder, B.T.**, C. O'Meara, A. Medel, N. Narchi, O. Aburto-Oropeza. 2013. The need for a next generation of Sonoran Desert researchers. *Conservation Biology* 27:243–244.
8. **Wilder, B.T.**, P.P. Garcillán, B. Marazzi. 2013. Sonoran Desert. In Howarth, R.W. (ed.), *Biomes and Ecosystems: An Encyclopedia*. Salem Press, Ipswich, MA. Pp. 1160–1163.
7. Garcillán, Pedro P., B. Marazzi, **B.T. Wilder**. 2013. Baja California Desert. In Howarth, R.W. (ed.), *Biomes and Ecosystems: An Encyclopedia*. Salem Press, Ipswich, MA. Pp. 346–349.
6. Gallo-Reynoso, J.P, R.S. Felger, **B.T. Wilder**. 2012. Near colonization of a desert island by a tropical bird: Military macaw (*Ara militaris*) at Isla San Pedro Nolasco, Gulf of California. *The Southwestern Naturalist* 57:461–464.
5. Felger, R.S., **B.T. Wilder**, J P. Gallo-Reynoso. 2011. Floristic diversity and long-term vegetation dynamics of San Pedro Nolasco Island, Gulf of California, Mexico. *Proceedings of the San Diego Society of Natural History* 43:1–42.
4. **Wilder, B.T.** & R.S. Felger. 2010. Cardons, guano, and isolation: The flora and vegetation of San Pedro Mártir Island, Gulf of California, Mexico. *Proceedings of the San Diego Society of Natural History* 42:1–24.

3. **Wilder, B.T.**, R.S. Felger, H. Romero. 2008. Succulent plant diversity of the Sonoran Islands, Gulf of California, Mexico. *Haseltonia* 14:128–161.
2. **Wilder, B.T.**, R.S. Felger, T. R. Van Devender, H. Romero-Morales. 2008. *Canotia holacantha* on Isla Tiburón, Gulf of California, Mexico. *Canotia* 4(1):1–7.
1. **Wilder, B.T.**, R.S. Felger, H. Romero-Morales, A. Quijada-Mascareñas. 2007. New plant discoveries for Sonoran Islands, Gulf of California, Mexico. *Journal of Botanical Research Institute of Texas* 1:1203–1227.

Reports and popular publications

8. Rutman, S., K.A. Dahl, R.E. McManus, G.P. Nabhan, A.T. Smith, M.B. Traphagen, **B.T. Wilder**. 2019. Defend the Biological and Cultural Integrity of the U.S.-Mexico Borderlands. <https://wildlandsnetwork.org/support-gems-of-the-sonoran-desert/>
7. **Wilder, B.T.** 2019. 6&6: Artists | Scientists. Next Generation Sonoran Desert Researchers. 43 pg.
6. **Wilder, B.T.**, M.M. Early Capistrán, S.E. Vanderplank. 2018. 2018 N-Gen Border BioBlitz. Next Generation Sonoran Desert Researchers. 36 pg.
5. Vanderplank S.E., **B.T. Wilder**, E. Ezcurra. 2016. Arroyo la Junta: Una joya de biodiversidad en la Reserva de la Biosfera Sierra La Laguna / A biodiversity jewel in the Sierra La Laguna Biosphere Reserve. Botanical Research Institute of Texas, Next Generation Sonoran Desert Researchers, and UC MEXUS. 159 pg.
Media coverage: Six unique articles in Spanish and English including [Mongabay](#), [La Jornada](#), and [Latin American Science](#)
4. Vanderplank, S.E., **B.T. Wilder**, E. Ezcurra. 2014. Descubriendo la Biodiversidad Terrestre en la Región de Cabo Pulmo / Uncovering the Dryland Biodiversity of the Cabo Pulmo Region. Botanical Research Institute of Texas, Next Generation Sonoran Desert Researchers, and UC MEXUS, U.S.A. 122 pg.
Media coverage: 15+ unique articles in Spanish and English including [Mongabay](#) and [Huffington Post](#).
3. **Wilder, B.T.**, C. O’Meara, A. Medel, N. Narchi. 2012. Next Generation Sonoran Desert Researchers 2012 Summit: The beginning of a movement. [English](#). [Spanish](#).
2. **Wilder, B.T.**, R.S. Felger, H. Romero-Morales. 2007. Succulents and bighorn of Isla Tiburón. *The Plant Press, Arizona Native Plant Society* 31(2):9–11.
1. **Wilder, B.T.** 2007. Report to Arizona-Nevada Academy of Science on the project: Vascular flora of Isla Tiburón and satellite Islands, Gulf of California Mexico. *Journal of the Arizona-Nevada Academy of Science* 39(1):51–55.

Editor

5. Felger, R.S., S.D. Carnahan, J.J. Sánchez-Escalante. *In Review*. *The Desert Edge: Flora of Guaymas-Yaqui Region of Sonora, Mexico*. Special Publication of the Desert Laboratory.
4. Felger, R.S. and F.S. Molina. *In Review*. *Plants & Animals in the Yoeme World: Ethnoecology of the Yaquis of Sonoran and Arizona*. Special Publication of the Desert Laboratory.
3. Bird, W.L. *In Review*. In the Arms of Saguaros. *Proceedings of the Desert Laboratory*, 3.

2. Esquer, G. 2018. Campos de Fuego: A Brief and Fantastic History of an Expedition into the Volcanic Region of the Pinacate. English and Spanish Editions. *Proceedings of the Desert Laboratory*, 2:1–154. <http://tumamoc.arizona.edu/oasis-desert-edge-flora-nacapule-canyon>
1. Felger, R.S., S.D. Carnahan, J.J. Sánchez-Escalante. 2017. Oasis at the Desert Edge: Flora of Cañón del Nacapule, Sonora, Mexico. *Proceedings of the Desert Laboratory*, 1:1–220. <http://tumamoc.arizona.edu/camposdefuego>

TEACHING

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| 2008-present | Instructor. Comcaac plant team control of invasive plant species on the Midriff Islands, Gulf of California. |
| 2018 | Instructor. Conservation Realities in Northern Mexico. University of Arizona Study Abroad Course, summer session. |
| 2015–2016 | Instructor. Conservation and Ecology Course for the Comcaac (conducted in Spanish) |
| 2015 | Guest Instructor. Duke University, Community-Based Marine Conservation in the Gulf of California; Dr. Xavier Basurto

Guest Instructor. Prescott College, Island Biogeography; Dr. Tom Fleischner, Dr. Lisa Hanna, Dave Hanna |
| 2012 | Instructor. Two workshops, “ <i>Plantas de las Grandes Islas</i> ” in the Comcaac community of Punta Chueca, Sonora. |
| 2012 | Teaching Assistant. UC, Riverside, Dept. Botany and Plant Sciences, course Biology 5B, Introduction to Organismal Biology. |

MENTORSHIP

Doctoral Candidates

2019. Lucila Armenta, Centro de Investigación en Alimentación y Desarrollo, A.C., (CIAD) Unidad Guaymas.
2018. Hector Zamora, Geosciences, University of Arizona

Undergraduate Students

2019. Mandy Becker, Honors Thesis Advisor, Ecology and Evolutionary Biology, University of Arizona
2014. Kimberly Than, Neuroscience, UC, Riverside
2014. Nancy Villapudua, Biological Sciences, UC, Riverside

SELECT PRESENTATIONS

Invited

2020. Hope in the Borderlands. Keynote address, International Sonoran Desert Alliance Tri-National Symposium, Ajo, AZ.

2020. Hidden Water: Pozos of the Gran Desierto. Tohono O'odham Legislative Council, Sells, AZ.
2020. The Boojum and Its Home. Arizona-Sonora Desert Museum, Tucson, AZ.
2020. Madagascar 90 | 90. University of Arizona Herbarium, Tucson, AZ.
2020. Establishing Ecological Baselines in the Sonoran Desert. School of Natural Resources and the Environment, Tucson, AZ.
2019. Biodiversity Baselines and Conservation Opportunities in the Gulf of California. Conservation Biology course, University of Arizona, Tucson, AZ.
2018. The History and Future of Tumamoc Hill. The Four Southern Arizona Tribes Cultural Council, Sells, AZ.
2018. Collaboration Across Borders. 1^{er} Encuentro de Becarios CONACYT en Norte América, Washington D.C.
2018. Hidden Water: Pozos of the Gran Desierto. Water Resources Research Center, Tucson, AZ.
2017. A New Era of Science Communication. Natural History Institute, Prescott, AZ.
2017. Opening Address. 8th Biennial Conference of the International Biogeography Society, Tucson, AZ.
2016. CAZMEX and N-Gen, catalyzing collaboration across the U.S.-MX Border. Agnese Nelms Haury Program Fall Reception, Tucson, AZ.
2016. Un Modelo para Bio-Expediciones: Arroyo La Junta, Una Joya de Biodiversidad en la Reserva de la Biosfera Sierra La Laguna. CONABIO, Mexico City.
2016. Next Generation Sonoran Desert Researchers. Gulf of California Funders Meeting, Ensenada, Baja California.
2016. The Continuum of Desert Research. Tumamoc Hill, Tucson, AZ.
2016. Tracking the Desert's Edge with a Pleistocene Relict. University of Arizona Herbarium, Tucson, AZ.
2015. Historical Biogeography of the Midriff Islands, Gulf of California. Department of Ecology and Evolutionary Biology, UCLA.
2015. Biodiversity Baselines and Conservation Opportunities in the Gulf of California, Stanford University Center for Latin American Studies.
2015. Historical Biogeography of the Midriff Islands, Gulf of California. Tilden Botanic Garden, Berkeley, CA.
2014. Historical Biogeography of the Midriff Islands, Gulf of California. UC Herbarium, UC Berkeley.
2014. Closing plenary: Panel on working together across agencies and borders. International Sonoran Desert Alliance Tri-National Symposium, Ajo, AZ.
2014. Establishing Conservation Baselines in the Gulf of California. Conservation Biology class, University of Arizona, Tucson, AZ.
2013. Cabo Pulmo and Cabo Cortés: The conservation frontier in Baja California. University of Arizona Herbarium, Tucson, AZ.
2013. Historical Biogeography of the Midriff Islands, Gulf of California. Arizona Native Plant Society, Tucson, AZ.

2013. Establecimiento de línea de base biológica en las Grandes Islas. Simposio de CONANP, Bahía de los Ángeles, Baja California.
2012. Highway 16 Revisited: A transect of the Sierra Madre Occidental. University of Arizona Herbarium, Tucson, AZ.
2012. From Coastal Scrub to Desert Islands: A botanical tour of Baja California. California Native Plant Society Riverside-San Bernardino Chapter, Riverside, CA. Co-presenter: Sula Vanderplank.
2012. Plant Life of a Desert Archipelago. California Native Plant Society, Conservation Conference, San Diego, CA.
2011. La Flora de las Grandes Islas y su Importancia para la Conservación. XV Anniversary of CIAD, Guaymas, Sonora. Presented in Spanish.
2007. Flora de la Isla Tiburón e islotes adyacentes, en el Golfo de California. Sonoran Native Plants Society, Hermosillo, Sonora. Presented in Spanish.
2007. Floristic Diversity of Isla Tiburón and Satellite Islands, Gulf of California, Mexico. Arizona Native Plants Society, Tucson, Arizona.
2006. Different Place, Same Problem: Buffel in the Australian Outback. Desert Laboratory on Tumamoc Hill, Tucson, Arizona.
2006. Different Place, Same Problem: Buffel in the Sonoran Desert, USA. CSIRO, Alice Springs, Northern Territory, Australia.

Contributed

2018. Border BioBlitz: Bridging the wall with data. 4th Biodiversity and Management of the Madrean Archipelago Conference. Tucson, AZ.
2018. Hidden Water: Pozos of the Gran Desierto. International Sonoran Desert Alliance Tri-National Symposium, Ajo, AZ.
2014. Historical Biogeography of the Midriff Islands, Gulf of California, Mexico. [Dissertation Defense]. UC, Riverside.
2014. Local Extinction, Unintentional Rewilding, and the Historical Biogeography of Islands in the Gulf of California. 99th Annual Meeting of the Ecological Society of America, Sacramento, CA.
2014. Panel: Re-imagining a Resilient Border. [Moderator]. Celebrating the Sonoran Desert, A Tri-National Symposium. Ajo, AZ.
2014. Historical Biogeography and Unintentional Rewilding of the Midriff Islands, Gulf of California. Lab of Dr. Rodolfo Dirzo, Stanford CA.
2013. Panel: Plant Life of a Desert Archipelago. [Participant with Richard Felger and Exequiel Ezcurra, moderated by Joseph Wilder]. Tucson Festival of Books.
2011. Island Biogeography, Plant Distribution, and Origin of Island Floras. 96th Annual Meeting of the Ecological Society of America, Austin, TX.
2011. A Century of Vegetation Change on the Midriff Islands, What Can We Expect in the Coming Decades? Conservation and Science Symposium, Loreto, Baja California Sur.
2011. Islands of Opportunity: Controlling Invasive Plant Species on the Midriff Islands, Gulf of California. Conservation and Science Symposium, Loreto, Baja California Sur.
2010. Dwarf Giants, Guano, and Isolation: Vegetation and Floristic Diversity of Isla San Pedro

- Mártir, Gulf of California, Mexico. 53rd Annual Symposium of the International Association for Vegetation Science (IAVS), Ensenada, Baja California, Mexico.
2010. Floristic Diversity and Historic Vegetation Reconstruction of the Midriff Islands, Gulf of California, Mexico. California Botanical Society 22nd Annual Graduate Student Symposium, San Jose, CA.
2009. Plants of the Sonoran islands, Gulf of California: Overview and conservation priorities. Encuentro Nacional para la Conservación y el Desarrollo Sustentable de las Islas de México, Ensenada, Baja California, Mexico.
2009. Dwarf Cardons and Ice Age Relicts; Some Biogeographical Plant Stories from Islands in the Gulf of California, Mexico [Poster]. 4th Biennial Conference of the International Biogeography Society, Merida, Yucatan, Mexico.
2009. A Phylogenetic Analysis of Three Tropical Forests [Poster]. 4th Biennial Conference of the International Biogeography Society, Merida, Yucatan, Mexico.
2007. Succulents and Bighorn of Isla Tiburón, Gulf of California. IV Arizona Botanists Conference, Phoenix, Arizona.
2006. Buffelgrass: A New World Order in the Sonoran Desert. Arizona Space Grant Symposium, Tucson, Arizona.
2006. Vascular flora of Isla Tiburón and satellite islands, Gulf of California, Mexico. V International Symposium Flora of Arid Lands, Hermosillo, Sonora, Mexico.

PROFESSIONAL SERVICE & SKILLS

- Board Member: Arizona-Sonora Desert Museum Science and Conservation Council (2018-present), Parque Nacional Cabo Pulmo (2015-present), Prescott College Kino Bay Center for Cultural and Ecological Studies (2011-2019), 8th Biennial Conference of the International Biogeography Society (2017), CONANP Elaboración de un Programa de Adaptación al Cambio Climático en la Región de Grandes Islas (2013-2017), Biosphere 2 Desert Sea (2013-2015), Southern California Botanists (2009–2013).
- Art/Science Practitioner: Leader, co-founder, and participant, 6&6 art-science collaboration, www.nextgensd6and6.com (2015–2019); Tumamoc Art & Science Course: Observational Drawing Skills for Field Notebooks (2018-present); Tumamoc Transdisciplinary Arts Working Group (2019-present).
- Botanical Collector. Over 3500 herbarium collections made primarily from the Sonoran Desert, distributed to herbaria across the U.S. and Mexico (2005-present).
- Reviewer: *PLOS ONE*; *Botanical Diversity*; *Haseltonia*; *Perspectives in Plant Ecology, Evolution, and Systematics*; *The Southwestern Naturalist*.
- Lead Producer: Tumamoc Tour mobile phone app, <http://tumamoc.arizona.edu/outreach/tumamoc-app> (2016–2017), Next Generation Sonoran Desert Researchers website www.nextgensd.com (2012-present).