

CURRICULUM VITAE

Adriana A. Zuniga-Teran

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CHRONOLOGY OF EDUCATION

2015 Ph.D., Arid Lands Resource Sciences, University of Arizona, Tucson, Arizona, United States.
Dissertation: "From Neighborhoods to Wellbeing and Conservation: Enhancing the Use of Greenspace through Walkability"
Advisors: Gimblett, R.H. (co-chair), Orr, B.J. (co-chair), Marsh, S.E., Chalfoun, N.V., Guertin, D.P.
Major fields: Urban Design; Urban Planning; Environmental Sciences.

2010 M.S., Architecture - Design and Energy Conservation, University of Arizona, Tucson, Arizona, United States.
Thesis: "To develop a sustainable community at Starr Pass in Tucson, Arizona, according to the LEED-ND guidelines"
Committee: Chalfoun, N.V. (chair), Jeffery, R.B., Hardin, M.
Major fields: Urban Design; Sustainability.

1989 B.A., Architecture, Monterrey Institute of Technology and Higher Education (ITESM), Monterrey, Nuevo Leon, Mexico.

CHRONOLOGY OF EMPLOYMENT

2022 – present Assistant Professor (joint appointment), School of Geography, Development & Environment and the Udall Center for Studies in Public Policy, University of Arizona.

2019 – 2021 Assistant Research Scientist (joint appointment), Urban Planning Department and Udall Center for Studies in Public Policy, University of Arizona.

2017 – 2018 Staff Scientist/ Senior Lecturer (joint appointment), Udall Center for Studies in Public Policy, and the School of Landscape Architecture and Planning, University of Arizona.

2015 – 2017 Postdoctoral Research Associate/Lecturer (joint appointment), Udall Center for Studies in Public Policy, and the School of Landscape Architecture and Planning, University of Arizona.

2015 Research Specialist, Institute of the Environment, University of Arizona.

2014 – 2015 Graduate Research Associate, Institute of the Environment, University of Arizona.

2012 – 2013 Graduate Teaching Associate, Graduate Interdisciplinary Programs, University of Arizona.

2011 – 2012 Office Specialist. International Student Services, University of Arizona.

2011 Spanish Instructor, Graduate and Professional Student Council, University of Arizona.

2009 Tutor, Strategic Alternative Learning Techniques (SALT) Center, University of Arizona.

2006 – 2007 Adjunct Lecturer, *Universidad La Salle del Noroeste* (La Salle University of the Northeast) & *Instituto Tecnológico de Cajeme* (Technological Institute of Cajeme). Ciudad Obregon, Sonora, Mexico.

2002 – 2006 Architectural Designer, *Proyectos y Construcciones del Noroeste* (Construction and Design or the Northeast). Ciudad Obregon, Sonora, Mexico.

1992 Architectural Designer, Constructora y Urbanizadora de Monterrey S.A. Monterrey, Nuevo Leon, Mexico.

1991 Architectural Designer, *Despacho de Diseño Camargo y Amador* (Camargo and Amador Design Office). Monterrey, Nuevo Leon, Mexico.

1989 – 1991 Architectural Designer, Monterrey Institute of Technology and Higher Education (ITESM), Campus Eugenio Garza Sada. Monterrey, Nuevo Leon, Mexico.

1989 – 1991 High School Teacher (Bicultural Program), Monterrey Institute of Technology and Higher Education (ITESM), Campus Eugenio Garza Sada. Monterrey, Nuevo Leon, Mexico.

AFFILIATIONS

2022 – Present Urban Planning Department, University of Arizona.

2019 – Present Center of Latin American Studies, University of Arizona.

2016 – Present Arid Lands Resource Sciences Program, University of Arizona.

HONORS AND AWARDS (# student involved)

2023 Faculty ACCESS Fellowship. Faculty Analytics Certificate for Course Equity and Student Success. Student Success & Retention Innovation. Office of the Provost. University of Arizona.

2022 Travel Award. Center for Latin American Studies, University of Arizona.

2022 # Poster Award. Student Showcase. C. Scarpitti and A. Zuniga-Teran. Workshop “State of the Art in Green Infrastructure Research & Practice: Reframing Stormwater from a Hazard to a Resource in Tucson, AZ.” University of Arizona.

2021 Nominated by the College of Architecture, Planning, and Landscape Architecture to the Richard Ruiz Diversity Leadership Faculty Award for working with Hispanic communities around greening efforts and community outreach. University of Arizona.

2020 Best Paper Award in 2018 – *Water International*, for “Water security and the pursuit of food, energy, and earth system resilience.”

2019 # Honorary Award by the Arizona Chapter American Society of Landscape Architects. Project: “Green infrastructure for social justice: Retrofitting a high school in south Tucson.” Student team designed the campus for Star Academic High School. Co-advisors: Yang, B., Zuniga-Teran, A.A., Murrieta, J., and Gerlak, A.

2019 Hispanic Serving Institution Fellowship. Hispanic Serving Institution Initiatives. University of Arizona.

2019 # Recognition for the Star Academic High School project. This student project was submitted by Prof. Bo Yang's landscape design studio class. Awarded by the Sunnyside Unified School District. Tucson, AZ.

2017 Honorary mention by the International Water Resources Association for the paper "Desalination and water security in the US-Mexico border region: Assessing the social, environmental, and political impacts."

2014 Arid Lands Resource Sciences Merit Award, University of Arizona.

2014 Graduate Fellowship. Graduate College, University of Arizona.

2014, 2013 The William A. Calder III Memorial Scholarship. Department of Ecology and Evolutionary Biology. University of Arizona.

2013 Poster Award. Student Showcase: Arid Lands Resource Sciences. University of Arizona.

2013 Poster Award. Student Showcase: Graduate Professional Student Council. University of Arizona.

2013 Gloria Barron Scholarship. The Wilderness Society.

2012 Outstanding Graduate Teaching Assistant. Graduate Interdisciplinary Programs. University of Arizona.

2010 Earth Fellowship. The Institute of the Environment. University of Arizona.

2010 College of Architecture Planning and Landscape Architecture (CAPLA) Portfolio Competition Award. Arizona Builders Alliance.

2009 Outstanding Student Award. Sustainable Design and the LEED Initiative class, School of Architecture. University of Arizona.

2008 – 2013 *Consejo Nacional de Ciencia y Tecnología* (National Council of Science and Technology, CONACYT) Full Scholarship. Mexican Government.

PUBLICATION/CREATIVE ACTIVITY (* dissertation work, # student involved, + award/honorary mention)

Chapters in Scholarly Books and Monographs

1. Fisher, L. and **Zuniga-Teran, A.A.** (Forthcoming). "Perspectives on Research and Conflict: The Contributions of Science and Information in Resolving Contentious Environmental Disputes." In *Contaminants, Contaminate, Contamination*, edited by Robert Chenorkian and Corinne Pardo. ISTE. London, UK.
2. **Zuniga-Teran, A.A.** (2024). Chapter 4: "Water Management in Ancient Mayan Cities." In *Agua Vitae – Unraveling the Story of Water in Latin America*, edited by Corzo Pérez, G.A., Hayde, L.G., Romero-Lopez, R., Jimenez Palacios, A. The Latin American Studies Book Series. Springer Cham. ISBN 978-3-031-57730-7
3. Pamukcu-Albers, P., Acevedo, J.C., Ugolini, F., **Zuniga-Teran, A.A.** and Wu, J. (2023). Chapter 4: "Urban resilience through green infrastructure." In *Adapting the Built Environment for Climate Change: Design Principles for Climate Emergencies*, edited by Pacheco-Torgal, F. and Goran-Granqvist, C. Woodhead Publishing, Elsevier: Cambridge, MA, USA. 53-69. ISBN: 978-0-323-95336-8.

4. **Zuniga-Teran, A.A.**, Lara-Valencia, F., Norman, L., Murrieta, J. Buechler, S. (2021). "Hydrodiplomacy in Ambos Nogales: Lessons learned from binational water management." Essay in Chapter 6 "Hydrodiplomacy." In *Sustainable Development for the Americas: Science, Health, and Engineering Policy and Diplomacy*, edited by Colglazier, E.W., Vafai, H.A., Lansey, K.E., Bryson, M.D. CRC Press. Boca Raton. 267-280.
5. Cordova, A., **Zuniga-Teran, A.A.**, Sproul, J. (2021). "Forging Sister Wetlands in El Paso, Texas and Ciudad Juarez, Mexico: Urban Transboundary Conservation and Restoration on the U.S-Mexico Border." Essay in Chapter 6 "Hydrodiplomacy" in *Sustainable Development for the Americas: Science, Health, and Engineering Policy and Diplomacy*, edited by Colglazier, E.W., Vafai, H.A., Lansey, K.E., Bryson, M.D. CRC Press: Boca Raton. 279-285.
6. Varady, R.G., # Albrecht, T.R., Gerlak, A.K., Staddon, C. and **Zuniga-Teran, A.A.** (2021). Chapter 8: "The water security discourse and its main actors." In *Handbook of Water Resources Management*, edited by J.J. Bogardi, K.D. Wasantha Nandalal, R.R.P. van Nooyem, A Bhaduri, A.G. Kolechkina. Springer: Switzerland. 215-52.
7. **Zuniga-Teran, A.A.** and C. Staddon. (2019). Chapter 13: "Tucson, Arizona – A story of 'water resilience' through diversifying water sources, demand management, and ecosystem restoration." In *Resilient Water Services and Systems: The Foundations of Well-Being*, edited by Juuti, P., Mattile, H., Rajala, R., Schwartz, K., and Staddon, C. IWA Publishing: London, UK. 193-212.
8. * **Zuniga-Teran, A.A.** (2019). "Walkable Neighborhoods." Essay in Chapter 15 "Urban ecology and modern life." In *Environmental Ethics: What Really Matters, What Really Works*, edited by Schmidtz, D., Shahar, D.C. Third Edition. New York: Oxford University Press. 609-614.
9. **Zuniga-Teran, A.A.** (2019). "Urban ecology." Essay in Chapter 15 "Urban ecology and modern life." In *Environmental Ethics: What Really Matters, What Really Works*, edited by Schmidtz, D., Shahar, D.C. Third Edition. New York: Oxford University Press. 565-571.
10. * **Zuniga-Teran, A.A.** (2017). Chapter 5: "Green infrastructure in walkable neighborhoods: A climate change adaptation strategy for cities in drylands." In *Climate Change Sensitive Cities: Building Capacities for Urban Resilience, Sustainability, and Equity*, edited by Delgado Ramos, G.C. Mexico: PINCC, UNAM. 163-79.
11. Megdal, S.B.; **Zuniga-Teran, A.A.**; Delano, N.; Varady, R.G.; Gerlak, A.K. and Vimont, E.T. (2017). Chapter 24: "Groundwater governance in the United States: A Mosaic of approaches." In *Advances in Groundwater Governance*, edited by Villholth, K., Lopez-Gunn, E., Conti, K., Garrido, A., van Der Gun, J., Delft: CRC Balkema. 483-510.

Referred Journal Articles

1. Albrecht, T., Gerlak, A.K., **Zuniga-Teran, A.A.** (Accepted). Urban water conservation and sustainability in the Colorado River Basin. *Water Alternatives*.
2. Le Tourneau, F-M., Blanchon, D., Boyer, A-L., Fisher, L., Wilder, B., **Zuniga-Teran, A.A.** (Accepted). Pima County (Arizona, USA) as a sentinel and an observatory of the socio-ecological complexity facing climate change. *Comptes Rendus de l'Academie des Sciences* (Reports of the Academy of

Sciences) as a special issue to valorize multi-disciplinary research and the innovative "human-environment observatories" network.

3. Crosson, C., Pincetl, S., Scruggs, C., Gupta, N., Bhushan, R., Sharvelle, S., Porse, E., Achilli, A., **Zuniga-Teran, A.A.**, Pierce, G., Boccelli, D., Gerba, C., Morgan, M., Cath, T., Thomson, B., Baule, S., Glass, S., Gold, M., MacAdam, J., Cole, L., Mier, M., Shipek, C., Meixner, T. (2024). [Advancing a Net Zero Urban Water Future in the United States Southwest: Governance and Policy Challenges and Future Needs](#), *American Chemical Society Environmental Science & Technology (ACS ES&T) Water*.
4. # Friedrich, H.K., Tellman, B.T., Sullivan, J.A., # Saunders, A., **Zuniga-Teran, A.A.**, Bakkensen, L.A., Cawley, M., Dolk, M., Emberson, R.A., Forrest, S.A., Gupta, N., Gyawali, N., Hall, C.A., Kettner, A.J., Sanchez Lozano, J.L., Bola, G.B. (2024). [Earth observation to monitor and redress inequitable post-flood recovery](#). *Earth's Future*, 12. 11pp.
5. García Ochoa, R., **Zuniga-Teran, A.A.**, Cervera Gómez, L.E., Scott, C.A., Peña, S., Balarezo Vasquez, T., Buechler, S., Muñan Valencia, J.A., # Martinez-Molina, K.G. (2023). [Cross-border sanitation project evaluation in Ambos Nogales: Identifying the homogeneous from the diverse](#). *Estudios Fronterizos (Border Studies)*, 14. 32pp. [Spanish](#) version here.
6. Hovis, M., Cubbage, F., Smith, G., **Zuniga-Teran, A.A.**, Varady, R., Shear, T., Chizmar, M., Lupek, M., Baldwin, M., Fox, A., Sand, A., Potter, T., Lovejoy, M., Larizk, K., Evans, B. (2023). [Estimating landowner's willingness to accept payments for nature-based solutions in eastern North Carolina for flood hazard mitigation using the contingent valuation method](#). *Journal of Soil and Water Conservation*, 78(6): 500-514.
7. # Armenta-Ramirez, I. S., Reyes- Castro, P.A., **Zuniga-Teran, A.A.**, Olmedo-Munoz, M. (2023). [The urban structure and pedestrian injuries: A typological analysis of pedestrian crashes in the city of Hermosillo, Mexico](#). *Traffic Injury Prevention*, 24(5): 428-435.
8. # Schwartz, P., **Zuniga-Teran, A.A.**, Lara-Valencia, F., Garcia-Perez, H., Diaz-Montemayor, G., Gil Anaya, C., Marruffo, J., # Rodriguez Ponce, O.A., # Holtzman, Z. (2023). [Pathways to greening border cities: A policy analysis for green infrastructure in Ambos Nogales](#). *Land*, 12(4). 21pp.
9. Lara-Valencia, F., Coronado, I., Mumme, S., Brown, C., Ganster, P., Garcia-Perez, H., Lybecker, D., Megdal, S.B., Sanchez, R., Sweedler, A., Varady, R.G., **Zuniga-Teran, A.A.** (2023). [Water management on the US-Mexico Border: Achieving water sustainability and resilience through cross-border cooperation](#). *Journal of Borderland Studies*, 38(2): 323-334.
10. Radonic, L., **Zuniga-Teran, A.A.** (2023). [When governing urban waters differently: Five tenets for socio-environmental justice](#). *Sustainability*, 15(1598). 19pp.
11. **Zuniga-Teran, A.A.**, Gonzalez-Méndez, B., # Scarpitti, C., Yang, B., Murrieta-Saldivar, J., # Pineda, I., Peñuñuri, G., Hinojosa-Robles, E., Soto, K., Müller, S., Valencia-Sauceda, J. (2022). [Greenbelt implementation in arid lands through soil reconditioning and landscape design: The case of Hermosillo, Mexico](#). *Land*, 11(2130). 27pp.
12. Gerlak, A.K., Baldwin, B., **Zuniga-Teran, A.A.**, Colella, T., # Elder, A., Bryson, M., # Gupta, N., Yang, B., # Doyle, T., # Heflin, S., McAdam, J., Hanshaw, K., McCoy, A., Wilson, K. (2022). [A collaborative effort to address maintenance of green infrastructure through a university-community partnership](#). *Socio-Ecological Practice Research*, 4, 393-408.
13. Ocampo-Melgar, A., Lutz-Ley, A., **Zuniga-Teran, A.A.**, Cerda, C., Goiran, S. (2022). Desafíos para el Desarrollo sostenible en las zonas áridas de Latinoamérica (Sustainable development challenges for Latin American drylands). *Mètode Science Studies Journal*. Special Issue *Drylands*. 83-89.

14. **Zuniga-Teran, A.A.**, Fisher, L.A., Meixner, T., Le Tourneau, F-M., Postillion, F. (2022). [Stakeholder Participation, Indicators, Assessment, and Decision Making: Applying Adaptive Management at the Watershed Scale](#). *Environmental Monitoring and Assessment*, 194 (156): 1-19.
15. **Zuniga-Teran, A.A.**, Tortajada, C. (2021). [Water demand management policies and their effects on water usage: The case of Tucson, Arizona](#). *Water Utility Journal*, 28:1-17.
16. De Vito, L., Staddon, C., **Zuniga-Teran, A.A.**, Gerlak, A., # Schoeman, Y., Hart, A., Booth, G. (2022). [Aligning green infrastructure to sustainable development: Geographical contributions to an ongoing debate](#). *Area*, 54: 242-251.
17. **Zuniga-Teran, A.A.**, Gerlak, A.K., # Elder, A., # Tam, A. (2021). [The unjust distribution of urban green infrastructure is just the tip of the iceberg: A systematic review of place-based studies](#). *Environmental Science and Policy*, 126: 234-245.
18. Garfin, G., Falk, D., O'Connor, C., Jacobs, K., Sagarin, R., Haverland, A., Haworth, A., Baglee, A. Weiss, J., Overpeck, J., **Zuniga-Teran, A.A.** (2021). [A new mission: mainstreaming climate adaptation in the US Department of Defense](#). *Climate Services*. 22(100230): 1-13.
19. Gerlak, A.K., # Elder, A., Sanderford, A., **Zuniga-Teran, A.A.**, Pavao-Zuckerman, M. (2021). [Agency and Governance in Green Infrastructure Policy Adoption and Change](#). *Journal of Environmental Policy and Planning*, 23(5): 599-615.
20. Gerlak, A.K., # Elder, A., Thomure, T., Shipek, C., **Zuniga-Teran, A.A.**, Pavao-Zuckerman, M., # Gupta, N., Mastler, M., Berger, L., Henry, A.D., Yang, B., Murrieta-Saldivar, J., Meixner, T. (2021). [Green infrastructure: Lessons in governance and collaboration from Tucson](#). *Environment: Science and Policy for Sustainable Development*, 63(3): 15-24.
21. Crosson, C., Achilli, A., **Zuniga-Teran, A.A.**, Mack, E., # Albrecht, T., Shrestha, P., Boccelli, D., Cath, T., Daigger, G., Duan, J., Lansey, K., Meixner, T., Pincetl, S., Scott, C.A. (2020). [Net Zero Urban Water from Concept to Applications: Integrating Natural, Built and Social Systems for Responsive and Adaptive Solutions](#). *ACS Environmental Science & Technology, Water*, 1(3): 518-529.
22. Scott, C.A., Zilio, M.I., Perillo, G.M.E., **Zuniga-Teran, A.A.**, Harmon, T. Escobar Jaramillo, J., Diaz Caravantes, R., Meza, F., Martin, F., Ribeiro Neto, A., Piccolo, M.C., Rusak, J., Varady, R.G., Pineda, N., Hoyos, N., Mussetta, P., Velez, M.I., Montenegro, S., Reid, B. (2020). [Do ecosystem insecurity and social inequity lead to failure of water security?](#) *Environmental Development*, 38(100606): 1-13.
23. Lutz-Ley, A.N., Scott, C.A., Wilder, M., Ocampo-Melgar, A., Lara-Valencia, F., **Zuniga-Teran, A.A.**, Buechler, S., Diaz-Caravantes, R., Varady, R., Ribeiro Neto, A., Pineda Pablos, N., Martin, F. (2020). [Dialogic science-policy networks for water security governance in the arid Americas](#). *Environmental Development*, 38(100568): 1-14.
24. **Zuniga-Teran, A.A.**, Gerlak, A.K., Mayer, B., Evans, T.P., Lansey, K.E. (2020a). [Urban resilience and green infrastructure systems: Towards a multidimensional evaluation](#). *Current Opinion in Environmental Sustainability*, 4: 42-47.
25. **Zuniga-Teran, A.A.**, Mussetta, P. Lutz-Ley, A.N., Diaz-Caravantes, R.E., Gerlak, A.K. (2020b). [Analyzing water policy impacts on vulnerability: Cases across the rural-urban continuum in the arid Americas](#). *Environmental Development*, 38(100552): 1-13.
26. Gerlak, A.K., **Zuniga-Teran, A.A.** (2020). [Addressing injustice in green infrastructure through socio-ecological practice: What is the role of university-community partnerships?](#) *Socio-Ecological Practice Research*, 2:149-159.

27. Varady, R.G., Gerlak, A.K., Mayer, B.M., # Albrecht, T., Lemos, M.C., **Zuniga-Teran, A.A.**, Wilder, M.O., Mukherjee, A., Ernst, K.C. (2020). [The exigencies of transboundary water security: Insights on community resilience.](#) *Current Opinion in Environmental Sustainability*, 44: 74-84.
28. Wilder, M., Varady, R.G., Gerlak, A.K., Mumme, S., Flessa, K., **Zuniga-Teran, A.A.**, Scott, C.A., Pineda Pablos, N., Megdal, S.B. (2020). [Hydrodiplomacy and adaptive governance at the U.S.-Mexico border: 75 years of tradition innovation in transboundary water management.](#) *Environmental Science and Policy*, 112: 189-202.
29. Blanchon, D., Keck, F., Tonnellat, S., Le Tourneau, F-M., **Zuniga-Teran, A.A.** (2020). [Sentinel Territories: A new concept to look at environmental change.](#) *Metropolitics*, 1-6.
30. Diaz-Caravantes, R.E., **Zuniga-Teran, A.A.**, Martin, F., Bernabeu, M.M., Scott, C.A., Stoker, P. (2020). [Urban water security: A comparative study of cities in the arid Americas.](#) *Environment and Urbanization*, 32(1): 275-294.
31. * **Zuniga-Teran, A.A.**, Stoker, P., Gimblett, R.H., Orr, B.J., Marsh, S.E., Guertin, D.P., Chalfoun, N.V. (2019a). [Exploring the influence of neighborhood walkability on the frequency of use of greenspace.](#) *Landscape and Urban Planning*, 190: 1-12.
32. Ward, S., Staddon, C., De Vito, L., **Zuniga-Teran, A.A.**, Gerlak, A., # Schoeman, Y., Hart, A., Booth, G. (2019). [Embedding social inclusiveness and appropriateness in engineering assessment of green infrastructure to enhance urban resilience.](#) *Urban Water Journal*, 16(1): 56-67.
33. **Zuniga-Teran, A.A.** and Gerlak, A.K. (2019). [A multidisciplinary approach to analyzing questions of justice issues in urban greenspace.](#) *Sustainability*, 11(11): 3055. 22pp.
34. **Zuniga-Teran, A.A.**, Staddon C., De Vito, L. Gerlak, A.K., Ward, S., # Schoeman, Y., Hart, A., Booth, G. (2019b). [Challenges for mainstreaming green infrastructure in built environment professions.](#) *Journal of Environmental Planning and Management*, 63(4): 710-732.
35. + Scott, C.A., # Albrecht, T., Routson de Grenade, R., **Zuniga-Teran, A.A.**, Varady, R.G., # Thapa, B. (2018 - **Best Paper Award**). [Water security and the pursuit of food, energy, and earth system resilience.](#) *Water International*, 43(8): 1055-1074.
36. # Albrecht, T., Varady, R.G., **Zuniga-Teran, A.A.**, De Grenade R., Lutz-Ley A., Martin, F., Megdal, S.B., Meza, F., Ocampo-Melgar, D., Pineda, N., Rojas, F., # Taboada, R., Willems, B. (2018) [Unraveling transboundary water security in the arid Americas.](#) *Water International*, 43(8): 1075-1113.
37. Staddon, C., Ward, S., De Vito, L., **Zuniga-Teran, A.A.**, Gerlak, A., # Schoeman, Y., Hart, A., Booth, G. (2018). [Contributions of green infrastructure to enhancing urban resilience.](#) *Environment, Systems and Decisions*, 38: 330-338.
38. Gerlak, A.K., # House-Peters, L., Varady. R.G., # Albrecht, T., **Zuniga-Teran, A.A.**, Cook, C., Routson de Grenade, R., Scott, C.A. (2018). [Water security: A critical review of place-based studies.](#) *Environmental Science and Policy*, 82: 79-89.
39. Petersen-Perlman, J.D., Megdal, S.B., Gerlak, A.K., Wireman, M., **Zuniga-Teran, A.A.**, Varady, R.G. (2018). [Critical issues affecting groundwater quality governance and management in the United States.](#) *Water*, 10(6): 735. 17pp.
40. # Albrecht, T., Varady, R.G., **Zuniga-Teran, A.A.**, Gerlak, A.K., Staddon, C. (2017). [Governing a shared hidden resource: A review of governance mechanisms for transboundary groundwater security.](#) *Water Security*, 2: 43-56.

41. * **Zuniga-Teran, A.A.**, Orr, B.J., Gimblett, R.H., Chalfoun, N.V., Guertin, D.P., Marsh, S.E. (2017a). [Neighborhood design, physical activity, and wellbeing: Applying the Walkability Model.](#) *International Journal of Environmental Research and Public Health*, 14(1): 76. 23pp.
42. * **Zuniga-Teran, A.A.**, Orr, B.J., Gimblett, R.H., Chalfoun, N.V., Marsh, S.E., Guertin, D.P., Going, S.B. (2017b). [Designing healthy communities: Testing the walkability model.](#) *Frontiers of Architectural Research*, 6(1): 63-73.
43. Varady R.G., **Zuniga-Teran, A.A.**, Garfin, G.M., Martin, F., Vicuña, S. (2016). [Adaptive management and water security in global context: Definitions, concepts, and examples.](#) *Current Opinion in Environmental Sustainability*, 21: 70-77.
44. * **Zuniga-Teran, A.A.**, Orr, B.J., Gimblett, R.H., Going, S.B., Chalfoun, N.V., Guertin, D.P., Marsh, S.E. (2016). [Designing healthy communities: A walkability analysis on LEED-ND.](#) *Frontiers of Architectural Research*, 5(4): 433-452.
45. Varady, R.G., **Zuniga-Teran, A.A.**, Gerlak, A.K., Megdal, S.B. (2016). [Modes and approaches of groundwater governance: A survey of lessons learned from selected cases across the globe.](#) *Water*, 8(10): 417. 24pp.
46. + Wilder, M., Aguilar Barajas, I., Pineda Pablos, N., Varady, R., Megdal, S., McEvoy, J., Merideth, R., **Zuniga-Teran, A.A.**, Scott, C. (2016 - Honorary Award). [Desalination and water security in the US-Mexico border region: Assessing the social, environmental, and political impacts.](#) *Water International*, 41(5): 756-775.

Other Scholarship Items (dissertation work, # student involved)*

Not-Peer-Reviewed Articles

1. **Zuniga-Teran, A.A.** and Lutz-Ley, A. *¿Es la desalinización una opción sustentable para México?* (Is desalination a sustainable option for Mexico?) (2017). *Ingeniería Civil* (Civil Engineering). *Colegio de Ingeniería Civil de México* (Civil Engineering College of Mexico). 15-18.
2. Pineda Pablos, N. and **Zuniga-Teran, A.A.** (2016). *Planeación por escenarios para la seguridad hídrica* (Scenario planning for water security). *Agua y Saneamiento* (Water and Sanitation). 67: 60-61.
3. **Zuniga-Teran, A.A.** and Diaz-Caravantes, R.E. (2015). *La infrastructure verde: una estrategia de adaptación al cambio climático* (Green infrastructure: a climate change adaptation strategy). *Agua y Saneamiento* (Water and Sanitation). 63: 89-91.
4. Pasqual, J.C., # Peon Anaya, R., Lutz-Ley, A., **Zuniga-Teran, A.A.**, # Peralta Lugo, Y., Mejia Santellanes, J.A. (2016). COP21-CM11 Implications over Renewable Energy: Challenges to meet committed carbon emission reductions in Brazil and Mexico. *Desenvolvimento e Meio Ambiente* (Development and Environment). 37: 31-46.

White Papers and Professional Reports

1. Lara-Valencia, F., Perez-Garcia, H., **Zuniga-Teran, A.A.** (2024). [Harvesting rain, sowing the future of Nogales, Sonora.](#) Final Report. El Colegio de la Frontera Norte and Arizona State University. University Grant # 1858. Nogales, Mexico.

2. **Zuniga-Teran, A.A.** "Stakeholder engagement for environmental and water management" (2023). Report submitted to The Babbitt Center for Land and Water Policy. The Lincoln Institute of Land Policy. Sept. 1. 40pp.
3. **Zuniga-Teran, A.A.**, Bernal, S., Iroz-Elardo, N., Colella, T., Williams, S., Bryson, M., Rodriguez, O., Eppard, J., Chesnot, Y. (2022). "Evaluating the impacts of the Corralitos Landfill on the quality of life of the residents of Las Cruces and Doña Ana County." Final Report submitted to the North American Development Bank. June 26. 45pp.
4. Coronado, I., Lara-Valencia, F., Mumme, S (leading authors), Brown, C., Ganster, P., Garcia, H., Lybecker, D., Megdal, S., Sanchez, R., Sweedler, A., Varady, R., **Zuniga-Teran, A.A.** (contributors) (2022). (contributing authors). [White Paper: "Water management on the US-Mexico border: Achieving water sustainability and resilience through cross-border cooperation.](#) White Paper submitted to the U.S. Commissioner of the U. S. International Boundary and Water Commission (IBWC) to respond to the challenges of US-Mexico border water management in the 21st century. Feb 4. 19pp.
5. Lara-Valencia, F., Norman, L.M., García-Pérez, H., Díaz-Montemayor, G., López, C., García, M., Rodriguez Estrella, M.A., **Zuniga-Teran, A.A.**, Castellanos, E., # Schwartz, P., Lundell, T., # Anides Morales, A., # Rodriguez Ponce, O.A. (2021). Sustainable Strategies for Stormwater and Combined Sewer Overflows Control in Ambos Nogales. Funded by the US-Mexico Border 2020 Program through the Environmental Protection Agency, the North American Development Bank, and the Arizona Department of Environmental Quality. 32pp.
6. **Zuniga-Teran, A.A.**, # Schwartz, P., # Rodriguez Ponce, O.A. (2020). A regulatory framework for green infrastructure in Ambos Nogales. Submitted to ASU partners as part of the project titled "Sustainable Strategies for Stormwater and Combined Sewer Overflows Control in Ambos Nogales." Funded by the US-Mexico Border 2020 Program. May 18. 25pp.
7. **Zuniga-Teran, A.A.** (2020). Water Demand Management in Tucson, Arizona. Report prepared for the National University of Singapore. July 31. 53pp.
8. Garcia Ochoa, R., Scott, C., **Zuniga-Teran, A.A.**, Cervera, L., Buechler, S., Peña, S., Muñan, J., # Martinez, K. (2019). [Transboundary impact assessment of wastewater infrastructure projects in Ambos Nogales.](#) Final Report submitted to the North American Development Bank. Oct. 15. 136pp.
9. Staddon, C. de Vito, L. **Zuniga-Teran, A.A.**, # Schoeman, Y., Hart, A., Booth, G. (2017). [Contributions of Green Infrastructure to Enhancing Urban Resilience.](#) Agenda Setting Scoping Studies. Summary Report. The Resilience Shift. Arup. June 30. 20pp.

Conference Proceedings

1. * **Zuniga-Teran, A.A.** (2018). Wellbeing synergies between walkable neighborhoods and the enhanced use of greenspace. Paper presented at 55th International Making Cities Livable conference. Ottawa, Canada. May 17. 9pp.
2. * **Zuniga-Teran, A.A.** (2017). The impacts of neighborhood design on physical activity and wellbeing. Paper presented at the 54th International Making Cities Livable Conference. Santa Fe, New Mexico. Oct. 5.
3. **Zuniga-Teran, A.A.**, Lutz-Ley, A., Peon, R. Pasqual, J., Peralta, Y. (2017). Planning for desalination: a comparative case study. Paper presented by **Zuniga-Teran, A.A.** and Lutz-Ley, A.N. at the XVI World Water Congress. Cancun, Yucatan, Mexico. May 31.

4. Gerlak, A.K., House-Peters, L., # Albrecht, T., Cook, C., Routson de Grenade, R., Scott, C.A., Varady, R.G., **Zuniga-Teran, A.A.** (2016). Water security: A critical review of recent studies. Presented by Gerlak, A. at the annual meeting of the International Studies Association. Atlanta, GA. Mar. 17.

Works in Progress (# student involved)

In Review

1. Seay-Fleming, C., Brown, A., Gerlak, A.K., **Zuniga-Teran, A.A.**, Suggs, Z., Bieber, K. "Cross-sector collaboration in the context of drought: A review of stakeholder engagement efforts with farmers in the Colorado River Basin. (Review and Resubmit). Submitted to *Socio-Ecological Practice Research*
2. **Zuniga-Teran, A.A.**, # Gaxiola, I., Kokroko, K., Radonic, L., Hovis, M., Brown, A., Sandoval, F., Bryson, M., # Aguilar-Murrieta, C., # Rodriguez-Ponce, O., Baldwin, B., Gupta, N., Cortes, I., Barron-Gafford, G.A. (in review). Engaging disadvantaged communities to advance inclusivity in urban greening programs. Submitted to *GeoForum*.
3. **Zuniga-Teran, A.A.**, Brown, A.R., Gerlak, A.K. (Review and Resubmit). Advancing justice: The evolution of public engagement in environmental and natural resource governance in the U.S. Submitted to *Society & Natural Resources*.
4. Lara-Valencia, F., Garcia-Perez, H., **Zuniga-Teran, A.A.** (Review and Resubmit). Crossed by the border: Youth lived experience with flooding in an urbanized transborder watershed. Submitted to *Children Geographies*.

In Preparation

1. **Zuniga-Teran, A.A.**, Haverland, A., Mason, J., Brown, A., Bryson, M., Nichols, J., Mejia, B., Landrith, M., Hunter, K., Fimbres, E. (In progress). Increasing representation of minority students in STEM fields: The role of an intergenerational youth mentoring model. To be submitted to *American Educational Research Journal*.
2. **Zuniga-Teran, A.A.**, Garcia Ochoa, R., Cervera, L., Scott, C.A., Buechler, S., Peña, S., Balarezo, T., # Martinez, K. (In progress). Impacts of binational wastewater infrastructure on human wellbeing in Ambos Nogales. To be submitted to the *International Journal of Urban and Regional Research*.
3. Garcia-Perez, H., Lara-Valencia, F., **Zuniga-Teran, A.A.** (In progress). Seeing rain like a child: Engaging youth in climate change adaptation and disaster resilience in Ambos Nogales. To be submitted to *Local Environment*.
4. Pauli, N., **Zuniga-Teran, A.A.**, Gupta, N., Barron-Gafford, G., Kokroko, K., Hovis, M., Radonic, L. et al. (In progress). Greener street verges to enhance urban resilience: understanding the governance of the public-private interface. To be submitted to the *Journal of Environmental Science & Policy / Urban Ecosystems*, under the section 'Nature with Cities'.
5. Kokroko, K., Hovis, M., **Zuniga-Teran, A.A.**, Radonic, L., Gupta, N., # Gaxiola, I., Sandoval, F., Cortes, I., Bryson, M., # Aguilar-Murrieta, C., # Rodriguez-Ponce, O. (In progress). From Policy to Play: Applying Gamification Strategies to Enhance Community Engagement in Urban Greening Policymaking. To be submitted to *Sustainable Cities and Society*.

6. # Gaxiola, I., **Zuniga-Teran, A.A.**, Kokroko, K., Radonic, L., Hovis, M., Brown, A., Sandoval, F., # Aguilar-Murrieta, C., # Rodriguez-Ponce, O., Bryson, M., Gupta, N., Cortes, I., Baldwin, B., Coronado, X., Bushman, B., Barron-Gafford, G. (In progress). The impact of plant preferences of low-income communities on human thermal comfort. To be submitted to *Land*.
7. Gupta, N., Barron-Gafford, G., Buzzard, V., **Zuniga-Teran, A.A.**, Kokroko, K., Hovis, M., Radonic, L., Baldwin, B. (In progress). Influence of green stormwater infrastructure vegetation on temperature, soil, and photosynthesis in a semi-arid neighborhood. To be submitted to *Environmental Research Letters*.

MEDIA

OpEds

2022 **AZ Central.** “Poor neighborhoods suffer most from Phoenix’s brutal heat. It doesn’t have to be this way.” Published on June 25, [here](#).

Expert Interviews

2023 **UA Environment.** Interviewed by Craig Baker. “Green infrastructure for blue water: Embracing environmental justice to bring water harvesting and green infrastructure to all Tucsonans.” Published on Dec. 15, [here](#).

Hearst TV’s Matter of Fact with Soledad O’Brien. Interviewed by Jennie Butler on water management in Phoenix, Arizona, and potential binational desalination. Dec. 12.

Southwest Center Podcast. Interviewed by graduate student Lucas Belury on flood justice in the US-Mexico borderlands. Spanish and English versions. Oct. 16 and Oct. 23 respectively. Available in English [here](#) and Spanish [here](#).

UA News. Interviewed by Craig Baker. “New UArizona program looks to diversify STEM engagement among local youth.” Published on Sept. 23, [here](#).

Arizona Daily Star. Interviewed by journalist Alli Burgess. “How safe is your morning stroll? Tucson works to improve walkability.” Published on May 21, [here](#).

Popular Science. Interviewed by journalist Carla Delgado. “Urban water crises often boil down to classism.” Published on May 4, [here](#).

2022 **Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux** (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM). Live video interview on participatory assessment of environmental health. Video clip for educational materials. Nantes, France. June 21.

UNISON Communications. Group interview with University of Sonora communication staff Rubio, J.A. “*El proyecto Infraestructura Verde impulsará ciudades sustentables: académicos*” (The Green Infrastructure project will launch sustainable cities). Hermosillo, Mexico. Published on May 2, [here](#).

Proyecto Puente. Interviewed by journalist Gamboa, A. “*Estudiantes de la Universidad de Arizona y Unison elaboran proyectos de infraestructura verde para Cerro Johnson en Hermosillo*” (University of Arizona and Unison students develop projects for green infrastructure for the Johnson Hill in Hermosillo). Hermosillo, Mexico. Aired on Apr. 27 [here](#).

2021 **UNISON Communications.** Interviewed by University of Sonora communication staff López Martínez, D. *“La infraestructura verde no es justa, privilegia a las zonas ricas: Adriana Zúñiga Terán”* (Green infrastructure is not just, it benefits wealthy neighborhoods: Adriana Zuniga Teran). Hermosillo, Mexico. Published on Nov. 11 [here](#).

Proyecto Puente. Interviewed by journalist Gamboa, A. about the 100K Strong in the Americas award to build capacity around green infrastructure in university students. Hermosillo, Mexico. Published on Aug. 19 [here](#).

Environmental Health News. Interviewed by journalist intern McVeigh, Q. about Tucson's 1 Million Trees initiative promoted by Major Regina Romero. Published on May 14 [here](#).

Arizona Daily Star. Interviewed by environmental journalist Tony Davis about greenspace equity in Tucson. Published on Apr. 4 [here](#).

2020 **Southwest Center Podcast.** Interviewed by graduate student Patricia Schwartz on water-wise infrastructure, urban greenspace/environmental justice, and transboundary water justice. Published on July 17 [here](#).

WalletHub.com. Interviewed by Sanders, J. on the challenges with beachfront properties and the vulnerabilities to climate change, and what can be done to increase resilience. Published on Jun. 17 [here](#).

2019 **Futurity.** Interviewed by Martin Reisch, M. “City parks are only as good as the trip to get there” that describes findings from the study “Exploring the influence of neighborhood walkability on the frequency of use of greenspace.” Published on Aug. 2 [here](#).

Arizona Public Media. Radio interview with Perkins, A. on the influence of neighborhood walkability on the frequency of use of greenspace. Published on Aug. 2 [here](#).

UA News. Interviewed by Ober, A. about the study titled “Exploring the influence of neighborhood walkability on the frequency of use of greenspace.” Published on Aug. 1 [here](#).

Landscape Architecture Magazine. Interviewed by Schuler, T. “Turn the temperature down – Tucson Verde Para Todos makes a local – and more equitable – approach to green infrastructure.” Phone. Published on Apr. 24. Vol. 109. No. 7.

2018 **High Country News.** Interviewed by Kutz, J. “Extreme heat hits Tucson's poor neighborhoods hardest,” Phone. Published on Dec. 6 [here](#).

UA Journalism. Interviewed by a UA journalism student Gonzalez. A. Tucson, AZ. Published on Nov. 17.

2017 **Inc Magazine (Inc.com).** Interviewed by Hinds, R. on active transportation and the health advantages of walking and biking. Published on Dec. 18 [here](#).

Radio show InfoTrak. Interviewed by Radio Host and Executive Producer Meyer, R. on the relationship of neighborhood design and wellbeing. Published on Talk Zone on Apr. 24 [here](#).

Newsweek en Español (in Spanish). Interviewed by Tilio Castro, M. on study about desalination in the U.S.-Mexico border region. Published on Apr. 7 [here](#).

Dr. OZ The Good Life Magazine. Interviewed by reporter Ditrolio, M. on neighborhood design and wellbeing. Published on Mar. 14.

Men's Fitness. Interviewed by Bible, A. “Here's why your neighborhood can make (or break) your fitness.” Published on Mar. 14 [here](#).

UANews. Interviewed by reporter Blue, A. on study on neighborhood design and walkability. Phone. Published on Mar. 9 [here](#).

UANews. Interview with reporter Abby Dockter, A. for article about the Haury Seed Grant Recipients. Published on Feb. 17 [here](#).

2016 **UANews.** Interviewed by Harwood, L. "UA Researchers Take a Closer Look at the Future of Desalination. As binational desalination plants are being considered as a strategy to combat water scarcity, scientists delve into the environmental, political, and social impacts" Published on Jul. [here](#).

La Conversada. Live radio interview with reporter Yañez, B., with colleagues America Lutz, and Yulia Peralta about a scenario planning workshop in Hermosillo, led by consultant Ralph Marra at *Agua de Hermosillo* (Hermosillo water utility company). Hermosillo, Mexico. Aired on Apr. 7.

Work Cited in the Media

2024 **Transforming communities into K-12 classrooms.** Story by Kate Cassada featured in Forbes online magazine. US STEM Mentoring project is featured in the initial photo. Published on Feb. 26 [here](#).

2023 **Shescape of the Colorado River Basin – Navigating gender equity and inclusion in conservation action.** Story by Aayla Kastning and Anika Srikanth. Sponsored by Planet Women and the William & Mary Institute for Integrative Conservation. Published on Dec. 12 [here](#).

2022 **UNISON Communications.** "Inician trabajos del proyecto Infraestructura Verde entre Unison y Universidad de Arizona" (Project launched on green infrastructure between Unison and University of Arizona). Published on Apr. 25 [here](#).

UNISON Communications. By Espinoza, B. "Cerro Johnson y Parque de Agua de Lluvia de Hermosillo, proyectos de infraestructura verde" (Johnson Hill and Raingarden in Hermosillo, green infrastructure projects). Article by Beatriz Espinoza. Published on April 26 [here](#).

UNISON Communications. By Espinoza, B. "Cerro Johnson y Parque de Agua de Lluvia de Hermosillo, proyectos de infraestructura verde" (Johnson Hill and Raingarden in Hermosillo, green infrastructure projects). Published on April 26 [here](#).

2021 **El Diario de Sonora.** Rubio, V. "Prepara secundaria programa de infrastructure verde; Buscan presentar un mejor uso al agua de las lluvias en Nogales, Sonora" (Middle school prepares green infrastructure program: They promote a better use for rainwater in Nogales, Sonora). Published on Oct. 1 [here](#).

2018 **iGlobes News and Events.** "UA Senior Lecturer Adriana Zuniga Presenting at the Observatory Workshop in France." Oct. 8-10. Available [here](#).

CONFERENCES/SCHOLARLY PRESENTATIONS

Keynote Speaker

2021 **Zuniga-Teran, A.A.**, Gerlak, A. "*Desarrollo sustentable: Justicia en los espacios verdes*" (Sustainable development: Justice in greenspace). Invited keynote talk presented virtually by **Zuniga-Teran, A.A.** in the III International Congress on Architecture. Topic: Sustainability and Water Resources. University of Sonora. Nov. 19.

Zuniga-Teran, A.A. and Gerlak, A. 2021. "Diseño urbano sustentable: Justicia en los espacios verdes urbanos" (Sustainable urban design: Justice in urban greenspace). Invited keynote talk presented virtually by **Zuniga-Teran, A.A.** for the *Seminario Permanente de Posgrado en Ciencias y Artes para el Diseño* (Permanent Postgraduate Seminar in Science and Arts for Design). Universidad Autónoma Metropolitana (Autonomous Metropolitan University), Mexico. March 31.

Seminars (# student involved)

2024 **Zuniga-Teran, A.A.**, Fisher, L.A., Meixner, T., Le Tourneau, F-M., Postillion, F. Stakeholder participation, indicators, assessment, and decision making: Applying adaptive management at the watershed scale. Presented by Fisher, L., **Zuniga-Teran, A.A.** at the *Séminaire Biodiversité et Sociétés* (Biodiversity and Society Seminar) organized by the *Laboratoire d'Excellence* (Laboratory of Excellence, Labex) *Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux* (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM). Montpellier, France. June 4.

Zuniga-Teran, A.A., # Gaxiola, I., Kokroko, K., Radonic, L., Hovis, M., Brown, A., Sandoval, F., Bryson, M., # Aguilar-Murrieta, C., # Rodriguez-Ponce, O., Baldwin, B., Gupta, N., Cortes, I., Barron-Gafford, G.A. "Inclusive urban greening to advance landscape connectivity and biodiversity." Presented by **Zuniga-Teran, A.A.** at the *Séminaire Biodiversité et Sociétés* (Biodiversity and Society Seminar) organized by the *Laboratoire d'Excellence* (Laboratory of Excellence, Labex) *Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux* (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM). Montpellier, France. June 4.

2022 **Zuniga-Teran, A.A.** "Green infrastructure in Tucson, Arizona: Reframing water from a hazard to a resource." Forte International Exchange Association. Online seminar for water managers in the Hunan Province of China. Nov. 27.

Zuniga-Teran, A.A. "Reframing water from a hazard to a resource: The case of Tucson, AZ." Utility Management Institute (UMI) Online seminar for water managers in the US-Mexico border region. North American Development Bank. Oct. 28.

Zuniga-Teran, A.A. "Water policy and governance for demand management: The case of Tucson, AZ." Utility Management Institute (UMI) Online seminar for water managers in the US-Mexico border region. North American Development Bank. Oct. 27.

Blanchon, D., Wilder, B., **Zuniga-Teran, A.A.**, Weiss, J., # Roudant, M-B. Tipping point and sentinels: Monitoring, interpreting and managing environmental changes in southern Arizona. OHMI Pima County Hybrid Seminar. Tucson, AZ. Oct. 24.

Fisher, L., **Zuniga-Teran, A.A.**, Meixner, T. "Integrating adaptive management and stakeholder engagement in the Cienega Watershed." OHMI Pima County Hybrid Seminar. Tucson, AZ. Oct. 24.

Gonzalez, B., **Zuniga-Teran, A.A.**, Yang, B., Loredo, R., Murrieta, J., Peñúñuri, G., Hinojosa, E., Soto, K., # Pineda, I. "Los anillos verdes como una estrategia de planeación para aumentar la resiliencia urbana: El caso de Hermosillo, Sonora" (Greenbelts as a planning strategy to enhance urban resilience: the case of Hermosillo, Sonora). Invited talk presented virtually by **Zuniga-Teran, A.** at the Institute of Geography Forum, Academic Talks, Universidad Autónoma de México (UNAM). May 6.

2021 Gonzalez, B., **Zuniga-Teran, A.A.**, B. Yang, B., Murrieta, J., Peñúñuri, G., Hinojosa, E., Soto, K., # Pineda, I. "Green Infrastructure for Stormwater Management in Hermosillo, Mexico: Soil

Recondition and Site Design.” NADBank UMI Seminar #5: Urban Green Infrastructure (virtual). Panelists: G. Peñúñuri, S. Müller, **A.A. Zuniga-Teran**. Moderator: J. Murrieta. Dec. 7.

Gerlak, A. and **Zuniga-Teran, A.A.** “University-community partnerships: A strategy to mitigate inequities in urban green infrastructure.” Presented virtually by **Zuniga-Teran, A.A.** as a “Lighting Talk” for the seminar “Geography 2025: Towards a More Equitable Future”, organized by the American Geographical Society. Nov. 15-19.

Zuniga-Teran, A.A. “*Modelo de Involucración Ciudadana: Diseño Participativo de infrastructure verde*” (Community engagement model: Participatory landscape design for green infrastructure). *Seminario: Agua, Medio Ambiente, y Sociedad* (Seminar: Water, Environment and Society). Virtual seminar organized by the University of Guerrero, Mexico. Aug. 20.

2020 Gerlak, A.K. and **Zuniga-Teran, A.A.** “University-community partnerships: A strategy to mitigate inequities in green infrastructure.” Presented virtually by **Zuniga-Teran, A.A.** *Human Environment Systems Seminar*. Boise State University. Oct. 7.

Symposia

2023 **Zuniga-Teran, A.A.** and Kokroko, K. “Green infrastructure in arid lands: The case of Hermosillo, Mexico. Shades of Urban Greening Symposium. Perth, Australia. October 3.

Zuniga-Teran, A.A., Sandoval, F., Kokroko, K., G., Radonic, L., Hovis, M., Cortes, I., Bryson, M., Gupta, N., Barron-Gafford, G., Baldwin, B., # Gaxiola, I., # Aguilar-Murrieta, C., # Rodriguez, O., Coronado, X., Bushman, B. “Shades of Urban Greening: Plant preferences of low-income communities of Tucson”. Presented by **Zuniga-Teran, A.A.** and Kokroko, K. Perth, Australia. October 3.

Zuniga-Teran, A.A. and Pauli, N. “Shades of Urban Greening: Setting the Stage for a Knowledge Exchange between Perth and Tucson”. Perth, Australia. October 3.

Fisher, L. and **Zuniga-Teran, A.A.** “A Virtual Tour of the Cienega Watershed.” *Laboratoire d'Excellence* (Laboratory of Excellence, Labex) *Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux* (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM) International Symposium. Strasbourg, France. June 5-8.

2022 Fisher, L., **Zuniga-Teran, A.A.**, Meixner, T. “Stakeholders, indicators, assessment and decision-making: applying adaptive management at the watershed scale.” Presented by Fisher, L., **Zuniga-Teran, A.A.**, *Laboratoire d'Excellence* (Laboratory of Excellence, Labex) *Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux* (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM) International Symposium. Nantes, France. June 20-22.

2021 Scott, C.A., Varady, R.G., **Zuniga-Teran, A.A.** “Water security in the arid Americas: The AQUASEC science-policy network. Presented virtually by R. Varady at the North American Climate Services Partnership (NACSP) forum. April 22.

Zuniga-Teran, A.A., Lara-Valencia, F., Garcia-Perez, H., Murrieta, J., Buechler, S., Estrella, M.A., Castellanos, E. “Developing an outreach model for green infrastructure to address flooding and sewage spills in Ambos Nogales.” Presented by **Zuniga-Teran, A.A.** at the Symposium on Resilience Research for Global Development Challenges. Organized by Arizona Institutes for Resilience (AIRES) International Programs. University of Arizona, Tucson AZ. Sep. 30.

Zuniga-Teran, A.A. "Equity in green infrastructure: Community engagement in Tucson and Ambos Nogales." Presented virtually during the Climate Pilot Project Symposium *Crossing Latinidades* organized by the University of Illinois, Chicago. Funded by the Andrew Mellon Foundation. Apr. 9.

2019 **Zuniga-Teran, A.A.**, Gerlak, A., Buechler, S., Scott, C. "Net Zero Urban Water – Public Policy Component." Presented by **Zuniga-Teran, A.A.** RESTRUCT Built Environment Research Symposium. University of Arizona. Tucson, Arizona. Dec. 12.

2017 **Zuniga-Teran, A.A.** Participated in the CAPLA Spring Symposium. The talk was titled: "Neighborhood design, physical activity, and wellbeing". Symposium held at the College of Architecture, Planning and Landscape Architecture at the University of Arizona on Apr. 11.

2016 **Zuniga-Teran, A.A.** Binational desalination in the U.S.-Mexico border: A case study of the proposed Puerto Peñasco desalination plant. Presented at the International INSAKA Research Symposium. Kafue, Zambia. Jun. 15.

Varady, R.G., Scott, C.A., **Zuniga-Teran, A.A.**, Buechler, S., Gerlak, A., Wilder, M. "Aspects of water ethics and governance." Presented at the Water Ethics Symposium - Building strategies for water ethics: Future direction in research and education. University of Arizona. Tucson, AZ, Apr. 25.

Conferences

2024 **Zuniga-Teran, A.A.**, Mussetta, P. Lutz-Ley, A.N., Diaz-Caravantes, R.E., Gerlak, A.K. "Water policy impacts on vulnerability in the arid Americas." Presented by **Zuniga-Teran, A.A.** at the Conference of Latin American Geographers (CLAG). Cuartel de Ballajá, San Juan, Puerto Rico. May 22.

Zuniga-Teran, A.A., # Gaxiola, I., Kokroko, K., Radonic, L., Hovis, M., Brown, A., Sandoval, F., Bryson, M., # Aguilar-Murrieta, C., # Rodriguez-Ponce, O., Baldwin, B., Gupta, N., Cortes, I., Barron-Gafford, G.A. "Engaging disadvantaged communities to advance inclusivity in urban greening programs." Presented by **Zuniga-Teran, A.A.** at the American Association of Geographers (AAG) Annual Meeting. Honolulu, HA. Apr. 20.

Zuniga-Teran, A.A., Gaxiola, I., Kokroko, K., Radonic, L., Hovis, M., Brown, A., Bryson, M., Sandoval, F., Aguilar-Murrieta, C., Rodriguez-Ponce, O., Gupta, N., Cortes, I., Baldwin, B., Barron-Gafford, G.A. "From Play to Policy: Applying Gamification to Enhance Community Engagement in Urban Greening Policymaking." Presented by K. Kokroko at the Council of Educators in Landscape Architecture (CELA) 2024 Annual Conference. St. Louis, MO. Mar. 19.

2023 **Zuniga-Teran, A.A.**, Lara-Valencia, F., Garcia-Perez, H., Marruffo, J., Gil, C., Murrieta, J., Varady, R., Yang, B., Bernal, S., Colella, T., Bryson, M., # Schwartz, P., Breault, A., # Murveit, A., # Yescas, S., # Rodriguez Ponce, O. "Pathways to greening the border: Public policy and stakeholder engagement for green infrastructure in Ambos Nogales." Presented by **Zuniga-Teran, A.A.** Association of Borderland Studies Annual Conference. Tempe, AZ. Apr. 20-23.

Lara-Valencia, F., Perez-Garcia, H., **Zuniga-Teran, A.A.** "Crossed by the border: Youth lived experience with flooding in an urbanized transborder watershed." Association of Borderland Studies Annual Conference. Tempe, AZ. Apr. 20-23.

Guhlincozzi, A., Hansen, R., O'Connell, S., Huntley, E., Koenig, N., **Zuniga-Teran, A.A.** Panel titled "Connecting with teachers or schools (K-12) to increase diversity in your college or university program." American Association of Geographers (AAG) Annual Meeting. Denver, CO. Mar 23-27.

Zuniga-Teran, A.A., Gonzalez-Méndez, B., # Scarpitti, C., Yang, B., Murrieta-Saldivar, J., # Pineda, I., Peñuñuri, G., Hinojosa-Robles, E., Soto, K., Müller, S., Valencia-Sauceda, J. "Green belt implementation in arid lands: The case of Hermosillo, Mexico." Presented by **Zuniga-Teran, A.A.** Session titled "Sustainable Urbanizations: Challenges and Opportunities. American Association of Geographers (AAG) Annual Meeting. Denver, CO. Mar 23-27.

Zuniga-Teran, A.A., Gonzalez-Méndez, B., # Scarpitti, C., Yang, B., Murrieta-Saldivar, J., # Pineda, I., Peñuñuri, G., Hinojosa-Robles, E., Soto, K., Müller, S., Valencia-Sauceda, J. "Green belt implementation in arid lands: The case of Hermosillo, Mexico." Presented by **Zuniga-Teran, A.A.** Conference of Latin American Geographers (CLAG). Tucson, AZ. Jan 3-6.

Lara-Valencia, F., Perez- Garcia, H., **Zuniga-Teran, A.A.** "Crossed by the border: Youth lived experience with flooding in an urbanized transborder watershed." Conference of Latin American Geographers (CLAG). Tucson, AZ. Jan 3-6.

2022 **Zuniga-Teran, A.A.** "Green infrastructure to mitigate urban flooding: The case of Tucson, AZ." Global Flood Partnership Conference. Leeds, UK. Sept. 6-8.

Lara-Valencia, F., **Zuniga-Teran, A.A.** "Community engagement for green infrastructure in the US-Mexico borderlands." Association of Borderlands Studies Annual Meeting. Denver, CO. Apr. 2.

Zuniga-Teran, A.A., Gonzalez, B., Yang, B., Murrieta, J., Peñuñuri, G., Hinojosa, E., Soto, K., # Pineda, I. "Framing urban green initiatives: Green infrastructure for low-income residents in Hermosillo, Mexico." Presented virtually by **Zuniga-Teran, A.A.** at the American Association of Geographers (AAG) Annual Meeting. Feb. 15 – Mar. 2.

2019 Cordova, A., **Zuniga-Teran, A.A.**, and Sproul, J. "Forging sister wetlands in El Paso, Texas and Ciudad Juarez, Mexico: Urban transboundary restoration and conservation." Presented by **Zuniga-Teran, A.A.** and Cordova, A. Science Diplomacy Conference. University of Arizona. Oct. 24.

Varady, R.G., Gerlak, A.K., Albrecht, T., **Zuniga-Teran, A.A.**, Mayer, B.M., Lemos, M.C., Wilder, M.O. "The exigencies of transboundary water security and the role of community resilience. Presented by Varady. R.G. at the Water Future Conference, "Towards a Sustainable Water Future." Bangalore, India. Sept. 26.

2018 **Zuniga-Teran, A.A.** "Wellbeing synergies between walkable neighborhoods and the enhanced use of greenspace." Presented at 55th International Making Cities Livable conference. Ottawa, Canada. May 17.

2017 **Zuniga-Teran, A.A.** "Neighborhood design, physical activity and wellbeing." Presented at the 54th International Making Cities Livable conference. Santa Fe, NM. Oct. 5.

2016 **Zuniga-Teran, A.A.** From designing buildings to researching deserts. Presented at Session 5: Water-Energy-Food Nexus. SWAN International Conference. Tucson, Arizona. Feb. 16-17.

Workshops (# student involved)

2023 Fisher, L., **Zuniga-Teran, A.A.** State of the Cienega Watershed – 7th Assessment. Virtual event organized by the Cienega Watershed Partnership. Dec. 1.

2022 Fisher, L., **Zuniga-Teran, A.A.**, Meixner, T. State of the Cienega Watershed – 6th Assessment. Virtual event organized by the Cienega Watershed Partnership. Nov. 8.

Zuniga-Teran, A.A., Lara-Valencia, F., Garcia-Perez, H., Garcia Ochoa, R., Marruffo, J., Gil, C., Cervera, L., Scott, C., Buechler, S., Muñan, J., Murrieta, J., Varady, R., Yang, B., Bernal, S., Colella, T., Bryson, M., Schwartz, P., Breault, A., Murveit, A., Yescas, S., Rodriguez Ponce, O. Pathways to greening the border: Public policy and stakeholder engagement for green infrastructure in Ambos Nogales. Presented by **Zuniga-Teran, A.A.** Arizona/Sonora Border Region Water Task Force Meeting. Environmental Protection Agency's Border 2025 Program. Nogales, Arizona. Oct. 6.

Zuniga-Teran, A.A. and # Friedrich, H. Defining flood recovery and adaptation: A consensus building activity. Side stakeholder meeting conducted during the Global Flood Partnership Conference. Leeds, UK. Sept. 9.

Fisher, L., **Zuniga-Teran, A.A.**, Meixner, T. Environmental issues in the Santa Cruz Watershed (with focus on the Cienega Watershed). Invited talk presented at a workshop organized by the *Laboratoire d'Excellence* (Laboratory of Excellence, Labex), which is part of the *Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux* (Interdisciplinary Research Device on Human-Environment Interactions, DRIIHM)- Research Project *Connexions, Déconnexions et Reconnexions dans les Socio-Hydrosystèmes* (Connections, Disconnections, Reconstructions in Socio-Hydrosystems, HYDECO). Workshop 1 - *Observatoire Homme-Milieu International* (International Observatory Human-Environment, OHMI) Pima County. Mar. 10.

2021 **Zuniga-Teran, A.A.** "Green infrastructure in Ambos Nogales: A decentralized solution to binational environmental challenges." Presented at the virtual workshop titled *Green Infrastructure in Ambos Nogales: Today and Tomorrow*. Jul. 8.

Zuniga-Teran, A.A. "Modelo de involucración comunitaria: Diseño participativo de infrastructure verde" (Community engagement model: Participatory design for green infrastructure). Presented at the virtual workshop titled *Infraestructure verde en Ambos Nogales: Hoy y Mañana* (Green infrastructure in Both Nogales: Today and Tomorrow). Jul. 9.

2020 **Zuniga-Teran, A.A.** "Participatory assessment of potential mining impacts in the Cienega Watershed." Presented at the panel titled "Assessing and regulating the socio-environmental impacts of resource extraction" at the Workshop *Resource extraction: Impacts, resistance and conflict resolution?* organized by the Udall Center and the French *Centre National de la Recherche Scientifique* (National Center of Scientific Research, CNRS)-iGlobes, University of Arizona. Tucson, AZ. Jan. 27-28.

Zuniga-Teran, A.A., Murrieta, J., Garcia-Perez, H., Buechler, St. Lara-Valencia, F. # Spickard, G. "Second Planning Workshop: Raingardens for my School." This workshop was the conclusion of the project titled "Developing an outreach model for green infrastructure to address flooding and sewage spills in Ambos Nogales," funded by the Arizona-Sonora Inter-University Alliance. Online. Sep. 24.

2018 **Zuniga-Teran, A.A.** "State of the Cienega Watershed." Presented at workshop "Resilience and Complexity" organized by Centre National de la Recherche Scientifique UMI-iGlobes. University of Arizona. Apr. 12.

Gerlak, A. Zuniga-Teran, A., Murrieta, J. Ruiz, N., Rodriguez, C., Shepard, J., and Shipek, C. Presented by **Zuniga-Teran, A.** "Urban resilience and green infrastructure: A case study of environmental justice in Tucson, AZ" at the event *Urban Resilience Networking Hour*, University of Arizona. Sep. 19.

2017 Gerlak, A. **Zuniga-Teran, A.**, Murrieta, J. Ruiz, N., Rodriguez, C., Shepard, J., and Shipek, C. "Equity in green infrastructure: A case study in Tucson, AZ." Presented by **Zuniga-Teran, A.** at the *Resilience & Complexity Workshop*. University of Arizona. Tucson, Arizona. Nov. 6.

Zuniga-Teran, A.A. "UNMASKing the interactions among food-water-energy security and climate risks in cities." National Center for Atmospheric Research, Boulder, Colorado, Oct. 2-3.

2016 **Zuñiga-Terán, A.A.**, and # T. Albrecht. "Diversity as a key element of urban resilience." Presented by Charles Breen at *Achieving Resilience by Design*, workshop organized by the International Water Security Network at the Institute of Natural Resources. Pietermaritzburg, South Africa. Aug. 10.

Zuniga-Teran, A.A. and N. Pineda Pablos. "Desalinización binacional en la frontera entre EE.UU. y México: Un caso de estudio en Puerto Peñasco" ("Binational desalination in the US-Mexico border: A case study in Rocky Point"). Presented at the water governance workshop *Buenas prácticas de gobernanza del agua: Adaptando enfoques existentes hacia la seguridad hídrica en Mendoza, Argentina, y en otras regiones áridas del continente americano*. Mendoza, Argentina. Aug. 4.

Scott, C. A., R. G. Varady, and **A. A. Zuñiga-Terán**. "Science–policy dialogues and resilience." Presented (by Charles Breen) at *Achieving Resilience by Design*, workshop organized by the International Water Security Network at the Institute of Natural Resources. Pietermaritzburg, South Africa. Aug. 10.

2015 **Zuniga-Teran, A.A.** Green infrastructure as a climate change adaptation strategy in cities in arid lands. Presented at Working group 3: Urban Settlements and Climate Change. Climate Change Workshop organized by Universidad Autónoma de México (UNAM). La Paz, Baja California Sur, Mexico, Nov. 17 – 20.

Zuniga-Teran, A.A. Taller de Ciudades Sustentables (Sustainable Cities Workshop). Presented at the VI International Congress on Sustainable Development- Sustainability in Border Cities. Instituto Tecnológico de Nogales. Nogales, Sonora, Mexico. Oct. 21.

Webinars

2023 **Zuniga-Teran, A.A.**, Baldwin, B. "[Green infrastructure in Tucson, AZ](#)." Water Resources Research Center Seminar Series. Online. May 17.

2021 Episode 5 of the Water Solutions for Our Warmer World Series titled "[Water and Infrastructure: Building for the Future.](#)" Keynote talk by Cathleen Kelly. Panel moderated by Courtney Crosson. Invited panelists: B. Ayyub, **A.A. Zuniga-Teran**, D. Herd. Virtual event organized by the Arizona Institutes for Resilience, Water Resources Research Center, and the Udall Center for Studies in Public Policy. University of Arizona. Oct. 20.

2019 Gerlak, A. **Zuniga-Teran, A.A.**, Murrieta, J. Ruiz, N., Rodriguez, C., Shepard, J., and Shipek, C. "Equity in green infrastructure: A case study in Tucson, AZ." Presented by **Zuniga-Teran, A.A.** at the

webinar *The Global Water Security Challenge* organized by the International Water Resources Association. Apr. 16.

Congresses

2019 Varady, R.G., Mumme, S., Gerlak, A.K., Megdal, S.B., Wilder, M.O., Pineda, N., Scott, C.A., Flessa, K.W., **Zuniga-Teran, A.A.** "Sesenta y cinco años de hidrodiplomacia en la frontera EUA-México" (Seventy five years of hydrodiplomacy in the US-Mexico border). Presented by Varady, R.G. at the Second International Congress *Agua para el Futuro* (Water for the Future), organized by the *Departamento General de Irrigación* (General Irrigation Department), the water agency of Mendoza, Argentina. Mar. 7-8.

Gerlak, A. **Zuniga-Teran, A.A.**, Murrieta, J. Ruiz, N., Rodriguez, C., Shepard, J., and Shipek, C. Presented by **Zuniga-Teran, A.A.** "Involucrando a las comunidades para un Tucson más equitativo y verde" (Engaging communities for a more equitable and greener Tucson). Presented at the Second international congress *Agua para el Futuro* (Water for the Future), organized by the *Departamento General de Irrigación* (General Irrigation Department), the water agency of Mendoza, Argentina. Mar. 7-8.

2018 Gerlak, A. and **Zuniga-Teran, A.** "Equity in green infrastructure: A case study in Tucson, Arizona." Knowledge Conclave *cum* Workshop – Nature-Based Solutions to Water Security. AAETI, Nimli, Rajasthan, India. 27-30 November.

Scott, C.A., **Zuniga-Teran, A.A.**, # Palomo, I, # Calbimonte, G. "Contribuciones del equipo de la UA." Presented at the congress "Desafíos en seguridad hídrica y resiliencia ante el cambio global en zonas áridas del continente americano." Guaymas, Sonora, Mexico. Apr. 18.

Scott, C.A., **Zuniga-Teran, A.A** and # Palomo, I. "Seguridad hídrica en el desierto de Sonora: Cuencas, ciudades y frontera." Presented at the congress "Desafíos en seguridad hídrica y resiliencia ante el cambio global en zonas áridas del continente americano." Guaymas, Sonora, Mexico. Apr. 18.

2017 Gerlak, A. **Zuniga-Teran, A.**, Murrieta, J. Ruiz, N., Rodriguez, C., Shepard, J., and Shipek, C. "Equity in green infrastructure: A case study in Tucson, AZ." Presented by A. Gerlak at I Congreso Peruano Agua-Andes: *Dialogos Ciencia-Politica para el Desarrollo Sostenible* (First Peruvian Agua-Andes Congress: *Science-Policy Dialogues for Sustainable Development*). National Univ. of San Cristóbal de Huamanga, Ayacucho, Peru. Sep. 19.

Staddon, C., **Zuniga Teran, A.**, # Shoeman, Y., DeVito, L., Arcadis. "Contributions of green infrastructure to urban resilience." Presented by Staddon and **Zuniga Teran** at I Congreso Peruano Agua-Andes: *Dialogos Ciencia-Politica para el Desarrollo Sostenible* (First Peruvian Agua-Andes Congress: *Science-Policy Dialogues for Sustainable Development*). National Univ. of San Cristóbal de Huamanga, Ayacucho, Peru. Sep. 19.

Albrecht, T. R., R. G. Varady, **A. A. Zuniga-Teran**, R. De Grenade, A. Lutz-Ley, F. Martín, S. B. Megdal, F. Meza, D. Ocampo Melgar, N. Pineda, F. Rojas, R. # Taboada, B. Willems. "Transboundary water security in the arid Americas." Presented by Varady and **Zuniga-Teran** at I Congreso Peruano Agua-Andes: *Dialogos Ciencia-Politica para el Desarrollo Sostenible* (First Peruvian Agua-

Andes Congress: *Science-Policy Dialogues for Sustainable Development*). National Univ. of San Cristóbal de Huamanga, Ayacucho, Peru. Sep. 19.

Zuniga-Teran, A., Lutz-Ley, A., Peon, R. Pasqal, J., Peralta, Y. "Planning for desalination: a comparative case study." Presented by **Zuniga-Teran, A.A.** and Lutz-Ley, A.N. XVI World Water Congress. Cancun, Mexico. May 31.

2016 Gerlak, A. K., # L. House-Peters, # T. Albrecht, C. Cook, R. Routson de Grenade, C. A. Scott, R. G. Varady, and **A. Zuñiga-Terán**. (Presented by A. Gerlak). Water security: A critical review of recent studies. Presented at annual meeting of International Studies Association, Atlanta, GA, Mar. 17.

Garcia, H., **Zuniga-Teran, A.A.** 2016. "Huertos comunitarios, dieta, y actividad física en población femenina en las ciudades de la frontera norte" (Community gardens, diet, and physical activity in female populations of cities along the northern Mexican border). Presented at the *Red de Cooperación Binacional para Comunidades Saludables* (Binational Cooperation Network for Healthy Communities). Nogales, Mexico. May 9.

2015 **Zuniga-Teran, A.A.** Desde las Colonias hasta el Bienestar y la Conservación: Aumentando el Uso de los Espacios Verdes a través de la Caminabilidad. (From neighborhoods to wellbeing and conservation: Enhancing the use of greenspace through walkability). Presented at the 1st International Congress of Urbanism, City, Urban Policy, and Borders. Instituto Tecnológico de Nogales. Nogales, Sonora, Mexico. Sep. 30.

Poster Presentations (# student involved, + award)

2022 + # Scarpitti, C., **Zuniga-Teran, A.A.** "Greenbelts as an urban planning approach in Latin American Cities: Missing social factors." Presented at the Workshop titled: "State of the art in green infrastructure research and practice." Organized by the Udall Center for Studies in Public Policy. Apr. 6.

Gonzalez, B., **Zuniga-Teran, A.A.**, Yang, B. Murrieta, J., Peñúñuri, G., Hijonosa, E., Soto, K., # Pineda, I. Presented by **Zuniga-Teran, A.A.** American Association of Geographers (AAG) Annual Meeting. Virtual guided poster titled: "Framing urban green initiatives – Green infrastructure for low-income residents in Hermosillo, Mexico." Feb. 26.

2018 **Zuniga-Teran, A.A.**, Fisher, L., Meixner, T. McFarlin, S. Postillion, 2018. F. Presented by Zuniga-Teran, A. Poster presentation at UHMI Seminar in La Martigue, France. Oct. 8-10.

2014 **Zuniga-Teran, A.A.** Poster presentation at Student Showcase: Grad Blitz by the Institute of the Environment. University of Arizona, Tucson, Arizona. Nov.

Zuniga-Teran, A.A. Poster presentation: College of Agriculture and Life Sciences Interdisciplinary Showcase. University of Arizona, Tucson, Arizona. Nov.

Zuniga-Teran, A.A. Poster presentation at the Student Showcase: Graduate Professional Student Council. University of Arizona, Tucson, Arizona. Nov.

Zuniga-Teran, A.A. Poster presentation at Student Showcase: Arid Lands Resource Sciences Welcome Event. University of Arizona, Tucson, Arizona. Sep.

2013 **Zuniga-Teran, A.A.** Poster presentation at the Student Showcase: Graduate Professional Student Council. University of Arizona, Tucson, Arizona. Nov.

Zuniga-Teran, A.A. Poster presentation at the Student Showcase: Graduate Interdisciplinary Programs. University of Arizona, Tucson, Arizona. Nov.

Community Presentations (# student involved)

2024 "Stakeholder participation, indicators, assessment, and decision-making: applying adaptive management at the watershed scale." Virtual presentation for the Pima County Regional Flood Control District Monthly Brown Bag Series. Apr. 10.

"Green infrastructure in Hermosillo, Mexico," Invited panelist along with Gonzalez, B., Ochoa de la Torre, J.M. Around 70 undergraduate students attended the panel. Monterrey Tech. Hermosillo, Sonora, Mexico. Mar. 4.

2023 "Shades of urban greening." Invited speaker at a gathering between US delegation of visitors and city officials and community members of Freemantle City. Perth, Australia. Oct. 2.

"Urban water management in the desert." Invited speaker for the Sustainability Ambassadors Program. Sustainable Tucson, AZ. Online. Aug. 19,

"Is desalination the solution to our border water crisis?" Invited panelist to the Coffee Break Permanent Forum of Binational Waters. Moderated by Rosario Sanchez and Sam Sandoval. Other panelists: Nicolas Pineda, Margaret Wilder, and Nelida Barajas. Virtual event. Aug. 10.

"From designing buildings to investigating environmental justice." Invited speaker to the Udall Scholars Orientation. Organized by the Udall Foundation. Marriot University Park, Tucson, AZ. Aug. 10.

"Tucson, Arizona: How a desert city became a leader in green infrastructure." Masterclass - College of Social and Behavioral Sciences Community Classroom. Tree Ring Lab 110, University of Arizona. Tucson, AZ. Feb. 10.

2022 "Green Infrastructure in Hot, Dry Climates," Panel presentation on a student exchange project. Mexican Consulate. Other panelists: Ochoa de la Torre, J.M., Bernal, S., Marincic, I., Mendoza, R. M., # Yescas, S., # Lizarraga, A. # Uribe, S. Tucson, AZ. Oct. 6.

"Contribuciones de la infraestructura verde a la resiliencia urbana" (Contributions of green infrastructure to urban resilience). 100K Strong in the Americas Project. Visit of students and faculty from the University of Sonora. Mar. 15.

"University-community partnerships: A strategy to mitigate inequities in urban green infrastructure." Presented virtually as part of the 2022 CAPLA Research Showcase. Jan. 27.

2021 "*Infraestructura verde para manejo de agua de lluvia: Reacondicionamiento del suelo y diseño del sitio*" (Green infrastructure to manage runoff: Soil reconditioning and site design). Presented along with # Pineda, I., Gonzalez, B., and Murrieta, J. at the Universidad de Sonora in Hermosillo, Sonora. Nov. 3.

"Infraestructura verde para manejo de agua de lluvia: Reacondicionamiento del suelo y diseño del sitio" (Green infrastructure to manage runoff: Soil reconditioning and site design). Presented along

with # Pineda, I., Gonzalez, B., and Murrieta, J. at the *Instituto Municipal de Planeación* (Municipal Planning Institute, IMPLAN) offices in Hermosillo, Sonora. Nov. 3.

“The State of the Cienega Watershed.” Presented at the Cienega Watershed Partnership Workshop along with Fisher, L., Meixner, T. Hybrid mode. In person at the Udall Center for Studies in Public Policy. University of Arizona, Tucson, AZ. Oct. 5.

2020 “State of the Cienega Watershed.” Presented virtually for the Cienega Watershed Partnership Workshop. Sep. 18.

“My experience as a Gloria Barron Scholar.” Presented virtually. The Wilderness Society. Dec. 20.

2019 “State of the Cienega Watershed.” Presented at the Cienega Watershed Partnership Workshop. University of Arizona. May 21.

“State of the Cienega Watershed.” Presented at the Science on the Sonoita Plain Symposium. Santa Cruz County Fairgrounds in Sonoita, Arizona. Jun. 22.

“Equity in green infrastructure: A case study in Tucson, Arizona.” Presented at the Arizona Senior Academy. Tucson, Arizona. Nov. 27.

MODERATOR & FACILITATOR

2023 Discussant of the Symposium “Shades of Urban Greening”. Synthesized and identified knowledge gaps from a one-day symposium and presented to the audience at the end of the program. Perth, Australia. Oct. 3, 2023.

Co-organized and moderated a session for the symposium titled “Shades of Urban Greening: Linking Social and Natural Sciences by Studying Plant Preferences and Ecosystem Impacts in Drylands.” University of Arizona, Apr. 3.

Co-organized and moderated the session titled: “Urban green and blue infrastructure in hot, arid and Mediterranean-type climates: Social and environmental considerations.” American Association of Geographers Annual Meeting. Denver, CO. Mar 23-27.

2020 Moderated the session titled “Regional Sustainability” under the broad banner of “Data-Driven Discovery at the US-Mexico Border.” This participation represented the University of Arizona at the Border Solutions Alliance convocation held at the National Academy of Sciences, Engineering and Medicine in Washington DC. Feb. 6.

2019 Moderated the introduction to the session “Hydrodiplomacy in Ambos Nogales: Lessons from Binational Water Management.” Panel members: Lara-Valencia, F., Norman, L., Murrieta, J., Buechler, S. Science Diplomacy Conference. University of Arizona, Tucson, AZ. Oct. 25.

2018 Facilitated a 3-day Scenario Planning workshop for El Colegio de Sonora titled “Planeación por Escenarios para El Colegio de Sonora” in Hermosillo, Sonora, Mexico. Jun. 25-27.

2016 Marra, R., **Zuniga-Teran, A.A.** Lutz-Ley, A. Peralta, Y., Mejia, J. “Scenario planning workshop and rationale to water interests in Hermosillo.” El Colegio de Sonora and Agua de Hermosillo. Hermosillo, Mexico. Apr. 8-9.

SYNERGISTIC ACTIVITIES

2024 Led the session titled “Geographies of Water” for the Conference of Latin American Geographers (CLAG). Cuartel de Ballajá, San Juan, Puerto Rico. May 22.

2024 Co-organized and gave opening remarks for the closing event of the STEM Mentoring project and student poster competition. University of Arizona. April 25.

2024 Co-organized a networking event titled “Binational Research Collaboration” between the University of Arizona, Colegio de Sonora, and Arizona State University. University of Arizona, ENR2 604. May 3, 2024.

2024 Organized the panel titled “Green Infrastructure in Hermosillo, Mexico” at Monterrey Tech in Hermosillo, Sonora, Mexico. Attended by 70 undergraduate architecture students and teachers. Mar. 4.

2023 Co-organized the visit of four Australian colleagues. Visit activities included a full-day symposium, a 2-day writeshop, field trips, guest talks, and dinner events. Apr. 3-7.

2022 Co-organized a series of events to host Admiral Rachel Levine, the US Assistant Secretary of Health under the Biden/Harris administration. Events included a public talk, a roundtable with local stakeholders, and a lunch with university leadership at the University of Arizona’s ENR2 building. Dec. 8.

2022 Co-organized the “*Seminario Internacional: Infraestructura verde en clima cálido y seco*” (International Seminar: Green infrastructure in a hot and dry climate). Hybrid event organized in collaboration with University of Sonora, at the Arts Center Auditorium, University of Sonora. Aug. 26.

2022 Led a student exchange project with the University of Sonora to build capacity around green infrastructure practices for future built environment professionals working in cities in arid regions.

2022 Gave opening remarks at the inauguration of the 100K Strong in the Americas Innovation Fund Project at Universidad de Sonora, Mexico. April 25.

2022 Organized a full day hybrid workshop titled “State of the art in green infrastructure research and practice: Reframing stormwater from a hazard to a resource in Tucson, AZ.” Sponsored by the Udall Center for Studies in Public Policy and co-sponsored by many other local organizations. Included a student poster competition. 100 attendees in person and 40 online. Held in person at ENR2 S107 at the University of Arizona. Also gave opening and concluding remarks. April 6.

2021 Organized a virtual lecture for the Udall Center for Studies in Public Policy around Equity, Diversity and Inclusion titled “[Combatting systemic racism with educational equity](#)” by Dr. Tori Thomas from the Kinder Institute at Rice University. Apr. 23.

2021 Participant in the nationwide project “Crossing Latinidades” led by faculty at the University of Illinois – Chicago, with funding from the A. Mellon Foundation. Jan – Jul.

2020 Co-organized a virtual lecture for the Udall Center for Studies in Public Policy around Equity, Diversity, and Inclusion titled “Courageous Conversations” with Ashley LaRusse. Feb. 19

2020 Hosted a virtual talk by Marie-Noëlle Carré from the *Centre de Recherche et de Documentation des Amériques* in Canada. The title of Dr. Carré’s talk is “A Tale of Two Quarries: Recycling post-extractive areas in Greater Montreal.” Apr. 14.

2020 Hosted a discussion with Dr. Tania Martinez at the Udall Center for Studies in Public Policy. Dr. Martinez is an Indigenous Mixe female scientist from Oaxaca, Mexico, who has won awards for her work on traditional maize-growing practices. Feb. 3.

2020 Participated on a panel for the seminar “Women in STEM” organized by UA Global. This initiative brought 45 female students in STEM fields from Mexico to the University of Arizona. Feb. 3

2020 Co-organized, moderated a panel, and presented at the workshop titled “Resource extraction: Impacts, resistance and conflict resolution?”. Workshop organized in collaboration with UMI-iGlobes and the Udall Center for Studies in Public Policy. The University of Arizona. Jan. 27-29.

2020 Participated in the Townhall on Advancing STEM Equity at Minority Serving Institutions. The University of Arizona. Tucson, AZ. Jan. 23.

2019 Chaired the session titled “Hydrodiplomacy in Ambos Nogales: Lessons from Binational Water Management.” Science Diplomacy Conference. University of Arizona, Tucson, AZ. Oct. 23-25.

2019 Participated in the “University of Arizona Master Plan Workshop.” As part of the Strategic Planning, the UA master plan is adapted to fit the needs of the growing campus. Old Main Building, University of Arizona. Aug. 12.

2019 Participated in the “Healthy Borders Healthy Waters Educational Curriculum Workshop” organized by New Mexico State University, Water Resources Research Institute, and CE³SAR, in collaboration with UNAM Juriquila and the Border Solution Alliance. Queretaro, Mexico. Aug. 8-9.

2019 Participated in the “Border Water Solutions: Proposal Planning Workshop” organized by the Water Resources Research Institute and New Mexico State University. Las Cruces, NM. Aug. 1-2.

2019 Participated in the workshop “Innovative, Multidisciplinary Water Research to Address the Needs of the US-Mexico Border Corridor.” Event was organized by New Mexico State University and the Water Resources Research Institute. Las Cruces, NM. Jun. 11.

2019 Led the University of Arizona convoy to participate in the “Border Solutions Alliance” workshops El Paso/Las Cruces funded by the NSF. Participated on the *Water* session at the El Paso/Las Cruces Workshop. Jun. 10-12.

2018 Chaired session and participated on the workshop “Human Challenges in Extreme Environments” funded by the Udall Center and the French UMI-iGlobes at the University of Arizona. Nov. 12-13.

2018 Co-organized and chaired the special session “A view to the future/Una vista hacia el future” for the workshop “Binational Water Relations at 75 Years: Retrospectives, Resilience, and US-Mexico Border Water Resources Governance” at the University of Arizona. Oct. 15-16.

2018 Co-organized and participated in the congress “Desafíos en Seguridad Hídrica y Resiliencia ante el Cambio Global en Zonas Aridas del Continente Americano” in Guaymas, Sonora, Mexico. Apr. 17-21.

2017 Coordinated and participated in a bilingual special session for the World Water Congress in Cancun, Mexico. May 31.

2017 Supported coordination for a special session at the Science Diplomacy Conference. The University of Arizona. Tucson, Arizona. Feb.

2016 Coordinated and participated in the workshop “Buenas Prácticas de Gobernanza del Agua” in Mendoza, Argentina; in collaboration with Argentinean partners and water officials from the Departamento General de Irrigación. Aug.

AWARDED GRANTS AND CONTRACTS

University Grants

2023 - 2024 **Principal Investigator.** “Increasing representation of minority students in STEM fields: The role of an intergenerational youth mentoring model,” funded by the Arizona Institute for Resilience (AIR) Resilience Grant through the Technology and Research Initiative Fund (TRIF). Award amount \$99,983. Project dates: 07/01/2023 – 06/30/2024. Effort 5%.

2023 **Principal Investigator.** “Assessing environmental and microclimate impacts of green infrastructure according to communities: Lessons from plant preferences in low-income neighborhoods in Tucson to build an international network,” funded by the UArizona Research, Innovation & Impact – International Collaboration Grant. UA Account # 2100256. Amount \$50,000. Project dates: 01/01/2023, 12/31/2023. Effort 0%.

2022-2023 **Co-Principal Investigator.** “International Working Group to Assess Flood Recovery, Adaptation, and Resilience from Space.” Arizona Institutes for Resilience – International Program. UA Account # 2252530, amount \$15,000. Led by graduate student Hannah Friedrick and Co-led by Dr. Beth Tellman. May 2022 – May 2023. Effort 0%.

2021 – 2022 **Principal Investigator.** “Community engagement for a river restoration project to enhance resilience in Nogales, Arizona.” Funded by the Arizona Institutes for Resilience – Arizona Technology and Research Initiative Fund (Technology Research Initiative Fund/Water, Environmental, and Energy Solutions TRIF/WEES Initiative). UA Account # 5851039. Award amount \$59,598. Project dates: 11/1/2021 – 10/31/2022. Effort 5%.

2021 **Senior Personnel.** “Building Resilience: A University-Community Partnership to Develop a Green Stormwater Infrastructure Maintenance Protocol for Tucson, Arizona.” Funded by UA’s Research, Innovation & Impact and the Arizona Institutes of Resilience (AIRES). Award amount \$80,799. Project dates: 11/2020 – 7/2021. Effort 5%.

2020 – 2021 **Principal Investigator.** “Green infrastructure for stormwater management in NW Hermosillo, Mexico: Soil recognition and site design.” Funding provided by CAZMEX – Consortium for Arizona – Mexico Arid Environments. Proposal ID: 00917460. Award amount \$44,211. Project dates: 4/15/2020-4/30/2021. Effort 0%.

2019 – 2020 **Principal Investigator.** “Developing an outreach model for green infrastructure to address flooding and sewage spills in Ambos Nogales,” in collaboration with Arizona State University, Colegio de la Frontera Norte Nogales, and Watershed Management Group. Funding was provided by the Arizona-Sonora Inter-University Alliance through Research, Discovery, and Innovation at the University of Arizona. Award amount \$7,500. Project dates: 7/2019 – 9/2020. Effort 0%.

Principal Investigator. “Developing an outreach model to address environmental justice through greening efforts.” Grassroots Seed Grant provided by the College of Architecture, Planning and Landscape Architecture, University of Arizona. Award amount \$4,000. Project dates: 8/2019 – 5/2020. Effort 0%.

Principal Investigator. “Addressing environmental injustice around green infrastructure in Tucson, Arizona.” Co-Principal Investigator: Andrea Gerlak. Funding from the University of Arizona Green Fund. Award amount \$25,025. Project dates: 5/2018 – 4/2019, extended to 12/2020. Effort 0%.

Federal

2024 **Co-Principal Investigator.** “SCC-CIVIC-PG Track A: Advancing a Net Zero Urban Water Future in the Southwest while Expanding Urban Greening and Associated Socio-Environmental Co-Benefits.” Submitted to the National Science Foundation. Principal Investigator: Courtney Crosson. Solicited amount \$75,000. Project dates: 10/2024 – 03/2025. Effort 1.2%. Awarded.

2022 – 2023 **Senior Personnel.** “Landscapes at Scale: Place-based infrastructure through landscape architecture,” funded by the Pacific Northwest National Laboratory, U.S. Department of Energy. Principal Investigator: Kirk Dimond. Co-Principal Investigator: Jonathan Bean. Award amount \$74,825. Project dates: 6/1/ 2022 – 5/31/2023. Effort 0.83%. Credit 100%.

2020 – 2021 **Co-Principal Investigator.** “Sustainable strategies for stormwater and CSOs control in Ambos Nogales” funded by Arizona State University through a grant from the U.S. Environmental Protection Agency. Border 2020 US-Mexico Border Environmental Program. Principal Investigator: Francisco Lara-Valencia at Arizona State University. Proposal ID: 00881959. Award amount to UArizona \$12,957. Project dates: 11/1/2019-10/31/2020. Effort 2%. Credit 100%.

Industry

2021 - 2022 **Principal Investigator.** "Evaluating the impacts of the Corralitos Landfill on the quality of life of residents in Las Cruces and Doña Ana, NM". Funded by the North American Development Bank. Co-Principal Investigators: Sandra Bernal and Nicole Iroz-Eraldo. Proposal ID: 00981089. Amount \$84,153. Project dates: 4/30/2021-4/29/2022, 8/30/2022. Effort 8.7%. Credit 100%.

2018 – 2019 **Co-Principal Investigator.** Project titled: "A cooperative effort to evaluate the impacts of a binational wastewater treatment plant," funded by El Colegio de la Frontera Norte with funding from the North American Development Bank. Principal Investigator: Rigoberto Garcia at El Colegio de la Frontera Norte. Proposal ID: 00780692. Award amount to the UArizona \$25,000. Project dates: 1/1/2018-12/31/2018. Effort 6%. Credit 100%.

Private Foundation

2023 – 2024 **Co-Principal Investigator.** "Proposal to assess engagement with agricultural communities." Funded by The Babbitt Center - The Lincoln Institute of Land Policy. Principal Investigator: Andrea Gerlak. Proposal ID: 23113409. Award amount \$34,098. Project dates: 7/1/2023-4/1/2024. Effort 4.22%. Credit 70%.

2021 – 2022 **Co-Principal Investigator.** "Green Infrastructure in Hot Dry Climates: An Educational Endeavor in Urban Spaces Facing Vulnerability." 100K Strong in the Americas (100K) Innovation Fund at Partner of the Americas and the Bureau of Western Hemisphere Affairs at the U.S. Department of State. Principal Investigator: Jose Manuel Ochoa from the Universidad de Sonora in Hermosillo. Award amount \$25,000. Project dates: 9/2021 – 5/2022. Effort 0%. Credit 50%.

2019 – 2020 **Postdoctoral Research Associate.** "International Water Security Network, Americas component." Lloyd's Register Foundation. Principal Investigator: Chad Staddon from the University of the West of England. Co-Principal Investigator: Robert Varady. Subaward amount to the UArizona \$1,046,897. Project dates: 9/2013-11/2020, hired from 8/2015-11/2020. Effort 100%. Credit 100%.

2019 – 2020 **Principal Investigator.** "State of the Health of the Cienega Watershed." Funded by the Cienega Watershed Partnership. Co-Principal Investigator: Larry Fisher. Proposal ID: 00728889. Award amount \$31,525. Project dates: 9/1/206 – 8/31/2019. Effort 14%. Credit 100%.

2017 **Co-Principal Investigator.** "Green infrastructure in New Hope Santa Clara Church along Airport Wash." Project evaluation funded by the Sonoran Institute with funding by the Royal Bank of Canada. Principal Investigator: John Shepard from the Sonoran Institute. Award amount \$5,000. 4/1/2017-12/31/207.

Co-Principal Investigator. "Contributions of Green Infrastructure to Urban Resilience: case studies and challenges from around the world." Desk study funded by ARUP Joint Program on Resilience Engineering. Principal Investigator: Chad Staddon from the University of the West of England. Total award amount £30,000. Award to the University of Arizona was £9,000 (~US\$11,184). Mar. 15 to Jun. 15, 2017.

2016 – 2020 **Principal Investigator.** "State of the Health of the Cienega Watershed." Funded by the Cienega Watershed Partnership. Co-Principal Investigator: Larry Fisher. Proposal ID:

00728889. Award amount is \$31,525. Project dates: 9/1/206 – 8/31/2019. Effort 14%. Credit 100%.

International

2023 **Co-Principal Investigator.** “Shades of urban greening: Understanding the social, design, and environmental impacts of plant foliage colour in hot cities,” funded by the University of Western Australia Research Collaboration Awards 2022. Principal Investigator: Natasha Pauli from the University of Western Australia. Award amount \$29,750 AUSD. Award to the UArizona consisted of travel expenses for two team members to visit Perth. Project dates: 1/2023 – 1/2024. Effort 0%. Credit 0%.

2020 – 2021 **Senior Personnel.** Project titled “Tipping point and sentinels: Monitoring, interpreting and managing environmental changes in Southern Arizona” funded by the *Centre National de la Recherche Scientifique* (National Center of Scientific Research, CNRS), UMI-iGlobes. Principal Investigator: David Blanchon from the University of Paris Nanterre. Co-Principal Investigator: Regis Ferrier from iGlobes. Award amount \$20,000. Project dates: 6/2020 – 6/2021. Effort 0%. Credit 0%.

Consulting work

2023 Project titled “Virtual Tour of the Cienega Watershed” Translation of materials to Spanish and recording of the audio tour in Spanish, funded by the Cienega Watershed Partnership. Project titled “Rainwater Harvesting in Ambos Nogales: Designing School Raingardens.” Developed curricula for middle school teachers in Nogales, Sonora, as part of a “Train the Trainer” model to help address flooding in Nogales. Funded by the Colegio de la Frontera Norte, Nogales with a grant from The US Consulate in Nogales.

2020 – 2023 Project titled: “The State of the Cienega Watershed: Enhancing Adaptive Management Decision Making and Public Outreach in the Cienega Watershed.” funded by the *Centre National de la Recherche Scientifique* (National Center of Scientific Research, CNRS), UMI-iGlobes.

2022 Project titled “Water policy and governance for demand management: The case of Tucson, AZ.” Developed and taught a 2-day seminar for the Utility Management Institute, funded by The North American Development Bank. Project titled “Green infrastructure in Tucson, AZ: Reframing water from a hazard to a resource.” Developed and taught a 2-hour seminar for the Forte International Exchange Association.

2020 Project titled: “Water demand management in Tucson, Arizona,” funded by the National University of Singapore.

SUBMITTED GRANTS AND CONTRACTS (limited to time in rank)

University

2021 **Principal Investigator.** “Disseminating project findings around the planning of a green infrastructure network in Ambos Nogales,” Digital Borderlands Grant funded by the

University of Arizona Libraries and the Andrew W. Mellon Foundation. Solicited amount \$59,946. Effort 5%. Unawarded.

2019 **Principal Investigator.** "Transboundary communities in a 'hardening border:' vulnerability assessment of social and environmental systems in Ambos-Nogales," Consortium for the Regional Scientific Development and Innovation. University of Arizona and *Consejo Nacional de Ciencia y Tecnología* (National Council of Science and Technology, CONACYT) Consortium for Arizona-Mexico Arid Environments (CAZMEX). Solicited amount \$59,998. Effort 0%. Unawarded.

Co-Principal Investigator. "Identificación de elementos físicos para el diseño de infraestructura verde como estrategia de adaptación al cambio climático para la ciudad de Culiacán" (Identifying physical elements for the design of green infrastructure as a climate change adaptation strategy for the City of Culiacan), Consortium for the Regional Scientific Development and Innovation. University of Arizona and *Consejo Nacional de Ciencia y Tecnología* (National Council of Science and Technology, CONACYT) Consortium for Arizona-Mexico Arid Environments (CAZMEX). Principal Investigator: Jorge Acosta Rendón at the University of Sinaloa. Solicited amount \$60,000. Effort 0%. Unawarded.

Federal

2024 **Senior Key Personnel.** "Collaborative Research: SRS RN: ATTEST: Assessing Trade-offs Towards Equitable and Sustainable Transformations in the Colorado River Basin." Submitted to the National Science Foundation. Principal Investigator: Andrea Gerlak. Proposal ID: 175293. Solicited amount \$7,481,573. Project dates: 09/2025 – 08/2030. Effort 7%. Pending.

Co-Principal Investigator. "A Learning Network for Project Partners," submitted to the Environmental Protection Agency. Principal Investigator: Andrea Gerlak. Proposal ID: 24092913. Amount to the UArizona \$32,246. Project dates: 06/01/2024 – 05/31/2027. Effort 0.26%. Credit 70%. Pending.

Senior Key Personnel. "Creation of a Southwest Center of Excellence for Stormwater Control Technologies," submitted to the Environmental Protection Agency. Principal Investigator: Andrea Gerlak. Proposal ID: 24082632. Solicited amount \$756,418. Project dates: 01/01/2025 – 12/31/2026. Effort 4.26%. Credit 70%. Unawarded.

Co-Principal Investigator. "The State of the Cienega Watershed: Enhancing Adaptive Management, Decision Making, and Public Outreach in the Cienega Watershed (Tucson, Arizona)", submitted to the U.S. Bureau of Land Management. Principal Investigator: Neha Gupta. Proposal ID: 24072207. Solicited amount \$39,868. Project dates: 7/1/2024-6/30/2027. Effort 3.12%. Credit 70%. Pending.

Co-Principal Investigator (UA subaward). "ECO-CBET: Advancing sustainable flood protection through 3D printed living materials." Submitted to the National Science Foundation. Principal Investigator: Alexandra Clarà Saracho from the University of Texas at Austin. Solicited amount \$1.7 million. UArizona's amount \$201,000. Project dates: 09/2024 – 08/2027. Effort 4.12%. Credit 70%. Pending.

2022 **Co-Principal Investigator** (UA subaward). "EFRI ELIS: 3D printed living infrastructure materials and their potential adoption for innovative flood management." Preproposal submitted to the National Science Foundation. Principal Investigator: Alexandra Clarà

Saracho at the University of Texas, Austin. Proposal ID: 23041060. Solicited amount \$2,000,000. Project dates: 9/1/2023-8/31/2027. Effort 0%. Credit 70%. Unawarded.

Senior Personnel. Project titled: "Understanding and predicting water-energy biogeochemistry interactions in semiarid cities of the Sun Corridor amid new urban designs for equitable climate solutions," US Department of Energy. Principal Investigator: Thomas Meixner. Proposal ID: 22121606. Solicited amount \$25,000,000. Project dates: 9/1/2022-8/31/2027. Effort 0%. Credit 100%. Unawarded.

2021 **Senior Personnel.** Project titled: "Building resilience in manufactured and mobile home communities," National Science Foundation, Smart and Connected Communities. Principal Investigator: Margaret Wilder. Solicited amount \$150,000. Effort 3%. Unawarded.

Co-Principal Investigator (UA subaward). "Building cross-border watershed stewardship through youth education and green infrastructure" Border 2025 US-Mexico Border Environmental Program. Principal Investigator: Francisco Lara-Valencia at the Arizona State University. Proposal ID: 01001148. Solicited amount for the UArizona \$5,000. Project dates: 11/1/2021-10/31/2022. Effort 2%. Credit 100%. Unawarded.

Co-Principal Investigator. "Does landscaping in arid cities create mosquito oases, and are communities willing to change?" National Science Foundation Dynamics of Integrated Socio-Environmental Systems (DISES). Principal Investigator: Kacey Ernst. Proposal ID: 01020813. Solicited amount \$1,599,817. Project dates: 11/1/2022-10/31/2026. Effort 4%. Credit 100%. Unawarded.

Co-Principal Investigator. "Fostering connected communities with crowdsourced public participation and visualization tool," National Science Foundation, Smart and Connected Communities Program. Principal Investigator: Bo Yang. Proposal ID: 00966863. Solicited amount \$150,000. Project dates: 10/1/2021-9/30/2022. Effort 3%. Credit 100%. Unawarded.

2020 **Principal Investigator.** "Flood mitigation through capacity building in public schools of Nogales," U.S. Environmental Protection Agency. Border 2020: U.S.-Mexico Border Environmental Program. Proposal ID: 00882633. Solicited amount \$99,865. Project dates: 11/1/2019-10/31/2020. Effort 5%. Credit 0%. Unawarded.

Principal Investigator. "Protecting school children during COVID-19 and beyond from flooding and sewage water intrusion into floodwaters." U.S. Environmental Protection Agency - Children's Healthy Learning Environments Grant Initiative. Proposal ID: 00921842. Solicited amount \$140,863. Project dates: 11/1/2020-10/31/2022. Effort 5%. Credit 100%. Unawarded.

Senior Personnel. "Second Phase of the Environmental Literacy Grant Program". National Oceanic and Atmospheric Administration. Principal Investigator: Catlow Shipek at Watershed Management Group. Effort 3%. Credit 30%. Unawarded.

2019 **Co-Principal Investigator.** "Does landscaping in arid cities create mosquito oases, and are communities willing to change?" National Institutes of Health (NIH) Research Project Grant Program (R01). Principal Investigator: Kacey Ernst. Proposal ID: 00844403. Solicited amount \$3,098,394. Project dates: 9/1/2019-8/31/2024. Effort: 8%. Credit 30%. Unawarded.

Principal Investigator. "Land-use/land-cover change: A key indicator for a participatory assessment of the state of the Cienega Watershed," U.S. Geological Survey (USGS) National

Competitive Grant (104g). Co-Principal Investigator: Tom Meixner. Solicited amount \$320,186. Effort 5%. Credit 100%. Unawarded.

Industry

2019 **Principal Investigator.** “Flood Mitigation through Capacity Building in Public Schools of Nogales.” North American Development Bank. Co-Principal Investigator: Stephanie Buechler. Proposal ID: 00882633. Solicited amount \$110,833. Cost share \$15,907. Project dates: 1/1/2020-6/30/2021. Effort 5%. Credit 100%. Unawarded.

Private Foundation/ NGOS

2024 **Co-Principal Investigator.** “Storytelling around Urban River Revitalization: Engaging Environmental Justice Communities.” Letter of Intent (LOI) submitted to the Mellon Foundation. Solicited amount of \$500,000. Principal Investigator: Andrea Gerlak. Project dates: 01/2025 – 12/2027. Effort 7.41%. Credit 70%. Pending.

2023 **Principal Investigator.** “Preliminary: Bridging the Gap between Top-down and Bottom-up Approaches to Urban Greening to Address Health Inequities in the Built Environment,” funded by the Evidence 4 Action from the Robert Woods Johnson Foundation. Letter of Interest. Solicited amount \$650,000. Project dates: 06/2023 – 06/2026. Effort 5%. Credit 100%. Unawarded.

2022 **Co-Principal Investigator.** “Reimagining approaches to multilateralism and US foreign policy,” funded by the Carnegie Corporation of New York. Principal Investigator: Kevin Lansey. Solicited amount \$500,000. Project dates: 09/2023 – 09/2025. Effort 5%. Unawarded.

Principal Investigator. “Engaging the manufacturing sector to improve water quality through green infrastructure on the US-Mexico border,” funded by the Johnson & Johnson Foundation WiSTEM² D Scholars Award Program. Limited submission. Proposal ID: 23030949. Solicited amount \$150,000. Project dates: 01/01/2023 – 12/31/2025. Effort 0%. Credit 100%. Unawarded.

International

2024 **Co-Principal Investigator.** “Crowdsourcing ecosystem services: Can resident-led initiatives lead to regenerative urban greening?” Expression of Interest (EOI) submitted to the Australian Research Council. Principal Investigator: Natasha Pauli from the University of Western Australia. Solicited amount about AUS\$650,000. Award to the UArizona consisted of travel expenses for project partners to attend meetings in Tucson and Perth. Project dates: 03/2025 – 03/2028. Effort 5%. Unawarded.

2022 **Principal Investigator.** “Training materials on transdisciplinary science related to global environmental change,” funded by the Inter-American Institute for Global Change Research. Co-Principal Investigator: Andrea Gerlak. Proposal ID: 22100964. Solicited amount \$120,000. Project dates: 4/1/2022-3/31/2023. Effort 0%. Credit 100%. Unawarded.

2021 **Senior Personnel.** “Policy interventions for water allocation during severe drought,” European Research Council Advanced Grant 2021. Principal Investigator: Cecilia Tortajada at the University of Glasgow. Solicited amount 2,498,948.25 Euro. Effort: 10%. Unawarded.

2019 **Principal Investigator.** "Supporting resilient cities: Participatory analysis and valuation of ecosystem services provided by green (ecological) infrastructure." Inter-American Institute for Global Change Research. Proposal ID: 00838026. Solicited amount: \$200,036. Co-funding offered: \$147,732. Project dates: 1/1/2019-12/31/2020. Effort 20%. Credit 100%. Unawarded.

TEACHING AND ADVISING

Teaching (UNIVERSITY OF ARIZONA)

GRADUATE COURSES

- Placemaking and the Urban Form RED 421/521 2020 & 2021
- Sustainable Urban Development & Design PLG 497s/597s 2020 & 2021
- Arid Lands Current Research Seminar ARL 959 2014 (TA), 2021

UNDERGRADUATE COURSES

- Global Cities: Urbanization, Globalization & Citizenship GEOG 465 2023 - present
- Urban Growth and Development GEOG 379 2022 - present
- Sustainable Design and Planning SBE 201 2015
- History of the Built Environment Part 1 SBE 221 2016 – 2021
- History of the Built Environment Part 2 SBE 222 2017 – 2022
- Introduction to Sustainability SBE 195A 2017 – 2019
- Careers in Sustainability SBE 195B 2018 – 2020
- Introduction to Global Change (Teaching Assistant) GC 170A1 (4 sections) 2012 – 2013
- Indigenous Religions (Teaching Assistant) RELI 200 2011

Teaching (NOT UNIVERSITY OF ARIZONA)

UNDERGRADUATE COURSES

Monterrey Institute of Technology and Higher Education (ITESM) School of Architecture – Hermosillo, Mexico

- Habitat Exploration – from the Element to the Landscape (team teaching) Spring 2024
- Participatory Architecture (team teaching) Spring 2024
- Multidisciplinary Analysis and Diagnosis (team teaching) Spring 2024

Universidad LaSalle del Noroeste (ULSA) — Obregon, Mexico

- Theory of Design I 2006 - 2007
- Theory of Design II 2006 – 2007
- History of Graphic Design III 2006 – 2007

Instituto Tecnológico Superior de Cajeme (ITESCA) — Obregon, Mexico

- Descriptive Geometry I 2006 - 2007
- History of Architecture II 2006 – 2007

HIGH SCHOOL COURSES

Monterrey Institute of Technology and Higher Education (ITESM) — Monterrey, Mexico

- Math I – Algebra I 1989 - 1990
- Math II – Algebra II 1989 - 1990

STUDENT MENTORING & ADVISING (UNIVERSITY OF ARIZONA) (*award)

2023 - present	Advisor	Ivan Gaxiola Camacho. Arid Lands Resource Sciences. A micro-scale urban vegetation method for mitigating excessive heat in the hot-arid city of Tucson. 2023 – present
2016 - present	Ph.D. Committee	Sonia Batsheva Kaufman. Geography. Illegal dumping in Philadelphia. 2023 – present Ivan Gaxiola Camacho. Arid Lands Resource Sciences. A micro-scale urban vegetation method for mitigating excessive heat in the hot-arid city of Tucson. 2022 – present Thomas Sullivan. Geography. The role of plants in attracting or deterring human use (focus on Berlin). 2022 – present Simone A. Williams. Arid Lands Resource Sciences. Groundwater quality assessment. 2021-present Karina G. Martinez. Arid Lands Resource Sciences. Water security during Covid 19. 2020-2021 Mariana Sofia Rodriguez McGoffin. Geography. Green infrastructure and environmental justice in the US-Mexico border (Cd Juarez). 2020-2022 Rodolfo Peon. Arid Lands Resource Sciences. Water-energy-food nexus in the Navajo Nation. 2016-2019. Defended and graduated in 2019
2016 - present	Masters Committee	Halley Hughes. Agricultural Education. Department of Agricultural Education, Technology & Innovation. Community engagement efforts for green infrastructure in Tucson. Committee member from 2023-2024. Patricia Schwartz. Geography. Regulatory framework around green infrastructure in Ambos Nogales. 2019-2020. Graduated in 2020 Yulia Peralta. Arid Lands Resource Sciences. Water security in the Yaqui Valley of Mexico. 2017-2019
2015 - 2020	Sustainable Built Environments Program,	*Lauran Lee Morrisey – outdoor public spaces. Won SBE Capstone award. 2020 Adele Weibke – sustainability in the fashion industry Sterling M. Kilman – desalination in California

	Capstone Project (undergraduate)	Moira M. Scanlon – crop choices and water use in Arizona Lindsay N. Callahan – food deserts Shannon Le Gate – shopping malls Ana Lucia Guerrero López – sustainability in high school curricula. Jeffrey Tolin – tire recycling options in the construction industry. Emma Baird James – relationship between housing, income, and high school graduation rates Yuxi Li – greenspace in Singapore
2019	Summer Research Prog. (graduate)	Marisela Trillas Ortiz – urban design and use of greenspace Martin Alan Barcelo – urban design and use of greenspace
2018 - present	Research (graduate)	Oscar Rodriguez Ponce – translation of interviews for the project that aimed to understand the institutional landscape of green infrastructure in Nogales (2020) and the study on plant preferences of Hispanic communities in Tucson (2023) Ivan Gaxiola Camacho – plant preferences of Hispanic communities in Tucson (2023) Christian Aguilar Murrieta – plant preferences of Hispanic communities in Tucson and STEM Mentoring project in low- income communities of Tucson (2023) *Irene Pineda – a landscape design for a stormwater management park in Hermosillo, Mexico. Won an award in poster competition Zoe Holtzman – literature review on public policy and the environment *Christina Scarpitti – literature review on urban green belts. Won an award in poster competition Anna Murveit – a survey to gauge public interest in river revitalization *Selenne Yescas – Design of a greenway for Nogales, AZ. Won poster competition award Simone Williams – water quality impacts in Las Cruces because of the Corralitos Landfill Patricia Schwatz – public policy analysis on green infrastructure in Ambos Nogales Gabrielle Spickard – landscape design for middle school in Nogales, Sonora Karina Martinez – project coordinator Mariana Rivera Torres – community engagement at STAR Academic High School *Isaac Palomo – landscape design at STAR Academic High School. Won team landscape design award for this project Giancarlo Calbimonte – water security in the arid Americas Veronique Arguello – Recruitment for IndigeFEWS Fellowship
2018 - present	Research mentor (undergraduate)	Catherine Broski - STEM Mentoring project in low-income communities of Tucson (2023)

		Carlos Burton - STEM Mentoring project in low-income communities of Tucson (2023) Claudia Benitez, UA's Microcampus Peru (fall 2022). Catherine Broski, UA's School of Sociology – student mentoring on capstone project (fall 2022) Grace Potter, UA's School of Geography, Development & Environment – student mentoring on graduate school applications (fall 2022) Diego Salido, UA's College of Engineering – student mentoring on graduate school and job applications (fall 2022) Jessica Eppard – A survey to residents in Las Cruces on sanitation services. 2022 Oscar Rodriguez – Dissemination of Nogales project and survey to residents in Las Cruces on sanitation services Alexander Tam – systematic literature review Alejandra Huerta – landscape design for middle school in Nogales, Sonora Emma James – literature review Grace Stoner – literature review
2018 - 2020	Outreach	Jordan Esparza – engagement at Star Academic High School Lauran Morrisey – engagement at Star Academic High School Jessica Eppard – engagement at Star Academic High School Cora Thomas – engagement at Star Academic High School Abby Collier – engagement at Star Academic High School Rebekah Ulmer – engagement at Star Academic High School Daniella Delgado – Outreach for GI maintenance protocol
2018 - present	Teaching	Ivan Gaxiola – TA for GEOG 379 (fall 2023) Wendy Luna – TA for GEOG 379 (fall 2022) Mattea Wallace – TA for RED 421/521 Jordan Lawson – TA for SBE 221 & SBE 222 Adele Weibke – TA for SBE 221 & SBE 222 Kendra Potter – TA for RED 421/521 Isaac Palomo – TA for RED 421/521 Jenny Rice – TA for SBE 221 & SBE 222
2021 - 2022	Student exchange programs	Co-led a binational student exchange project with Universidad de Sonora (Unison) in Hermosillo to build capacity around green infrastructure in cities of the Sonora Desert. The project involved 8 students from the UArizona (including 3 internships), 20 from Unison, and 6 French students
2023	Mo Udall Scholars	Served as mentor for undergraduate student (Catherine Broski) involving them in policy-related research. This program is managed by the Udall Center for Studies in Public Policy

STUDENT MENTORING & ADVISING (OTHER UNIVERSITIES)

El Colegio de Sonora, Hermosillo, Mexico

2019	Summer Research (graduate)	Fernanda Elizalde – community resilience in the Sonora River Basin
2014 - present	PhD/Masters Committee	Juan Carlos López Torrero. Dissertation titled “Gestión sostenible del espacio verde público en ciudades áridas, hacia el cumplimiento de los ODS-2030”. Fall 2020 – present Maria Magdalena Bernal Grijalva. Dissertation titled: “La gestión urbana de espacios públicos y áreas verdes en ciudades áridas cálidas del norte de México (Hermosillo, Mexicali, y Torreón) Ivan de Santiago Armenta Ramirez. Master’s thesis “Tipologías del accidente peatonal: Un análisis socioespacial a la estructura urbana de Hermosillo, Sonora, 2014-2017”
2020	Reviewer of design projects	University of Arkansas - Landscape Design Studio with Prof. Gabriel Diaz Montemayor. Project on green infrastructure network in Ambos Nogales to manage stormwater. Mid and final review. Spring 2020

Universidad de Sonora, Hermosillo, Mexico

2022	Summer Research (graduate)	Diana Urias Borbon – Community gardens in Hermosillo, Mexico
2022	Undergraduate	Aldo Lizarraga, Universidad de Sonora – student mentoring for graduate school at the University of Arizona

PEDAGOGICAL TRAINING

2023	Faculty Analytics Certificate for Course Equity and Student Success (Faculty ACCESS Fellows Program). Training offered by the Student Success & Retention Innovation. University of Arizona. July 10-14, 2023. Mentor Institute Training (Levels II and III). Training offered by the Faculty Mentoring Initiatives, Office of the Provost. University of Arizona. Oct. 18. Immigrant Student Success. Training offered by the Thrive Center at the University of Arizona. ENR2 223. Mar. 1.
2022	QPR - Question, Persuade, Refer. Mental health and suicide prevention training offered by the University of Arizona. ENR2 S230. Feb. 1. Consensus Building Facilitation Training. Offered by the Native Nations Institute at the Casino del Sol. August 9. Culturally Responsive Pedagogy. Office of Instruction and Assessment. University of Arizona. July 13-17.

2019 Alan Alda Science Communication Workshop. Offered by Stony Brook University. University of Arizona. Feb. 14 – Feb.

2013 Efficient Grading – Rubric Development. Certificate in College Teaching – Best Practices for Teaching Assistantships. Office of Instruction and Assessment. University of Arizona.

INVITED LECTURES AND PANELS (UNIVERSITY OF ARIZONA)

2023 “Pathways to greening the border: Public policy and stakeholder engagement for green infrastructure in Ambos Nogales”. Talk as part of a panel of experts for the undergraduate course LAR 301: Design Studio III, with Prof. Kenneth Kokroko. Online. Sept. 1.

“Water management in Ambos Nogales.” Introduction to a panel of experts for an undergraduate course LAR 301: Design Studio III, with Prof. Kenneth Kokroko. Online. Aug. 28.

“Doing Collaborative Research.” Graduate seminar with Prof. Connie Woodhouse and Talia Anderson. ENR2 S495. Feb 10.

2022 “How to do a systematic literature review.” SBE 480 – Research Methods with Dr. Philip Stoker. Cesar Chavez Building 302. Nov. 30.

“Human-landscape interactions in changing urban environments.” Fall 2022 Colloquium Series for the Department of Environmental Sciences. Marley 203. Sept. 26.

“Faculty panel on advising” at the New Graduate Student Orientation for the School of Geography, Development & Environment. ENR2 S495. Aug. 18.

“Stormwater management in Ambos Nogales.” Invited lecturer to the course LAR 623 Landscape Planning Studio with Prof. Bo Yang. Online. April 13.

2020 “Urban ecology and modern life.” Recorded video interview with Prof. Dave Schmidtz for his class Environmental Ethics. Online. Oct. 13.

2019 “Enhancing resilience in semiarid urban and peri-urban landscapes.” Invited lecturer to the ARL 641 – Natural and Human Impacts on Arid Lands with Prof. Stuart Marsh. ENR2 465. Oct. 29.

“Equity in green infrastructure: A case study in Tucson, AZ.” Invited lecturer to the class GEOG 256: Sustainable Cities and Societies with Prof. Phil Stoker. Modern Languages Building. Apr. 4.

“Wellbeing synergies between walkable neighborhoods and the enhanced use of greenspace.” Invited lecturer to the class SBE 380: Research Methods with Prof. Philip Stoker. CAPLA Drachman 200. Mar. 25.

“Green Buildings.” Invited speaker to the class GEOG 302: Sustainable Development with Prof. Andrea Gerlak. Harvill Building. Mar. 21.

“Equity in green infrastructure: A case study in Tucson, AZ.” Presented at the event “CCASS Climate Chats” with graduate students at the Tooth Brewing Company in Tucson, AZ. Feb. 26.

2018 "Water security through green infrastructure: A case study on environmental injustice in Tucson, Arizona." Invited lecturer to the class EPID 606 – Changing Global Health Policy through Epidemiological Analysis and Cultural Understanding. Drachman Building in Health Sciences. Apr. 3.

"Green Buildings." Invited lecturer to the class GEOG 302: Sustainable Development with Prof. Andrea Gerlak. Harvill Building. Mar. 14.

"Urban resilience through green infrastructure: An environmental justice case study in Tucson, AZ." Invited lecturer to the class GEOG 6960 – Adaptation and Resilience in Water Resources Systems with Prof. Christopher Scott. ENR2 S465. Jan. 18.

2017 "Neighborhood design, physical activity, and wellbeing." Invited lecturer for the class Special Topics in Architectural Research with Prof. Omar Yousef. CAPLA. Apr. 13.

"Resilience through Urban Design and Walkability." Participated in a discussion panel for the class GEOG 6960 - Adaptation and Resilience in Water Resources Systems with Prof. Christopher Scott. Jan. 24.

2016 Participated in a discussion panel on sustainability for the class Introduction to Global Change organized by the Instructor Dr. Arin Haverland. Biosciences West. Nov. 28.

"From neighborhoods to wellbeing and conservation: Enhancing the use of greenspace through walkability." Lecture given to undergraduate students of the Sustainable Built Environments Degree Program. Oct. 6.

INVITED LECTURES AND PANELS (NOT UNIVERSITY OF ARIZONA)

2023 "Infraestructure verde en Hermosillo, Sonora, Mexico" (Green infrastructure in Hermosillo, Sonora, Mexico). Participated in a panel for senior architecture undergraduate students at Monterrey Tech in Hermosillo, Mexico. Mar. 4.

2023 "Green infrastructure and urban resilience." Guest lecturer for the Future Cities class at Lauffer Middle School. Sunnyside Unified School District. Tucson, AZ. Oct. 27.

"From designing buildings to investigating environmental justice." Guest lecturer for the class GEOG 3303 Environmental Policy & Planning. Geography Department. University of Western Australia. Perth, Australia. Oct. 5.

2018 "Ciudades Sustentables (Sustainable Cities)." Invited Speaker to Fundación Alfa High School for gifted and underrepresented students in Monterrey, Mexico. Feb. 14.

2016 "From neighborhoods to wellbeing and conservation: Enhancing the use of greenspace through walkability." Lecture given via Skype to undergraduate students majoring in urbanism at Monterrey Institute of Technology and Higher Education (ITESM). Leon, Guanajuato, Mexico. Sept. 8.

SERVICE AND OUTREACH (limited to time in rank, from 2019 - present)

Local/State Outreach

2024	Member of Planning/Advisory Group	Youth Water Leadership Institute, led by the Environmental Defense Fund called "Emerging Leaders: Water Leadership Institute Beyond Boundaries". This effort is co-led by Environmental Defense Fund, Rural Community Assistance Corporation, and ASU's Arizona Water4All Coalition. The aim of the institute is to train two cohorts of young BIPOAC (Black, Indigenous, and other People of color) water leaders in South Tucson and Nogales to become leaders and advocate for water in their communities.
2019 – Present	Engagement with disadvantaged communities to address environmental justice issues	Engaged with teachers and students at the Sunnyside Unified School District (Lauffer Middle School and at the two high schools) on a STEM mentoring project to increase future enrollment of low-income Hispanic students in higher education and STEM/Geography majors. 2023-2024. Engaged with teachers and students at the <i>Secundaria #3</i> (Middle School #3) in Nogales, Sonora, Mexico in a participatory landscape design process. We partnered with NGOs and local government to plan, design, and implement green infrastructure to mitigate flooding and sewage spills in Ambos Nogales. 2019-2020.
		Tested a youth mentoring model for community engagement at Star Academic High School in a low-income neighborhood of Tucson, AZ. 2019.

National/International Outreach

2024	Student Travel Award Reviewer	Conference of Latin American Geography. Reviewed extended abstracts for the Student Travel Award. Mar. 2024.
2024	Member of IBWC/CILA Science Advisory Board	This binational group advises the International Boundary Water Commission (IBWC) and its Mexican counterpart <i>Comisión Internacional de Límites de Agua</i> (CILA), on urban water management along the US-Mexico border. Mar. 2024 - present.
2023	Member of EPA's Science Advisory Board (SAB) Environmental Justice (EJ) Review Panel	This Panel provides independent advice through the Chartered SAB on the updated EJScreen Tool methodology and calculations for the EJ indexes, including several enhancements to components and underlying elements of the mapping tool calculations. 2023.

2023 – Present	Board Member	Conference of Latin American Geography.
2023	Member of the International Scientific Community	Reviewed abstracts for the XVIII World Water Congress. Beijing, China. Organized by the International Water Resources Association. 2023.
2023	Book Chapter Reviewer	Book chapter titled: <i>Estudios de la Gestión Adaptativa en Chile: Descubriendo Elementos para la Resiliencia</i> , ("Adaptive Management in Chile: Discovering Resilience Elements"). University of Chile. Book titled: <i>Water History in Latin-American Cultures</i> , Elsevier. 2023.
		Book chapter titled: "Historical trajectory of water uses in the Upper Paraná River Basin (Brazil)." Book titled: <i>Aqua Vitae, Latin American Studies Series</i> , Springer Nature. 2023.
2021	Project Reviewer	Reviewed a neighborhood-scale green infrastructure pilot project assessment for Tucson Water. Sep. 2021.
		Landscape Design Studio with Prof. Gabriel Diaz Montemayor at the University of Arkansas. Project on green infrastructure network in Ambos Nogales to manage stormwater. Mid and final review. Spring 2020.
2019	Conference Paper Reviewer	Proceedings of the Science, Health, and Engineering Diplomacy and Policy Conference. University of Arizona. 2019.
2019 – Present	Proposal Reviewer	European Science Foundation, Science Connect. Research Foundation Flanders. June 2019.
		University of Hawaii Water Resources Research Center. July 2020.
		The National Fund for Scientific and Technological Development (FONDECYT) from Chile. Nov. 2020.
2019 – Present	Journal Peer Reviewer	Urban Governance; Nature-Based Solutions; Urban Studies; Global Environmental Change; Land; Urban Water Journal; Sustainability; Water Alternatives; Urban Design; International Journal of Environmental Research and Public Health; Water International; Water; Environment and Planning B: Urban Analytics and City Science; Urbe; Urban Science; Environmental Science and Policy; Landscape and Urban Planning; Environmental Sustainability; Urban Forestry and Urban Greening; Urban Geography; Journal of Environmental Policy and Planning; Environmental Development; Ecosphere; International Journal of Water Resources Management.
2019 – 2021	Co-chair of Board	Sky Island Alliance.
2019 – 2022	Board Member	Sky Island Alliance.

Departmental Committees

2023 – 2024	Peer Course Evaluation	Observed and evaluated the course GEOG 357 – Geographical Research Methods. Fall 2023.
2019 – Present	Departmental Committees	Ad-hoc Committee for Undergraduate Programs. Fall 2023. Colloquium. School of Geography, Development & Environment. 2022-2023. Equity, Diversity, and Inclusion committee at the Udall Center for Studies in Public Policy. 2020–2022.
		Lecture Series for the School of Landscape Architecture and Planning. 2019-2021.
2019 – Present	Hiring Search Committees	Environmental Policy Research Scientist, Udall Center for Studies in Public Policy. Fall 2023. Tenure-track Assistant Professor of Environmental Policy. Joint appointment between the Udall Center for Studies in Public Policy and the School of Government and Public Policy. Fall 2022 – Spring 2023. Assistant Professor of Practice in Urban Geography. School of Geography, Development & Environment. Spring 2022. Postdoctoral Research Associate. Udall Center for Studies in Public Policy. Spring 2022. Tenure-track Assistant/Associate Professor in Real Estate Development. School of Landscape Architecture and Planning. University of Arizona. Spring 2021.

College Committees

2019 – 2020	Review of design projects	Landscape Design Studio with Prof. Bo Yang School of Landscape Architecture. Project on park design for stormwater management and infiltration in greenbelt of Hermosillo, Mexico. Mid and final review. Spring 2020. Low-Income Housing Studio project with Professor Eduardo Guerrero Bolivar. School of Architecture. May 12, 2020. Urban design studio. Mid-term with Professor Travis Mueller at School of Landscape Architecture. Feb. 2019.
2022	Judge	Student design competition. Place-based and at scale renewable energy landscape. Master of Landscape Architecture. Spring 2022.

2019 – Present	Committees	Equity, Diversity and Inclusion at the College of Architecture, Planning and Landscape Architecture. 2019 – 2021. Strategic Planning and Operations Advisory Committee (SPOAC) at the College of Architecture, Planning and Landscape Architecture. 2019. Academic Task Initiative for the College of Architecture, Planning, and Landscape Architecture. 2019.
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University Committees

2023	Advisory Team	Member of the Advisory Team for the Sustainability & Climate Action Plan. May – Dec. 2023.
2023	Leadership	Co-leader of the Equity & Justice Working Group for the Sustainability & Climate Action Plan. May – Dec. 2023.
		Leader of the nomination and election process for the new Chair of the Arid Lands Resource Sciences Program. Graduate Interdisciplinary Program. 2023.
2023 - present	Proposal Review	Research Development Grants – Community Engaged Partnerships. Arizona Cultivate. May 2024. CAPLA Grassroots Research Seed Grants. Nov. 2023. TRIF WEES International Collaboration Grant, Research Innovation & Impact. University of Arizona. Oct. 2023. Arizona Institutes for Resilience (AIR) Resilience Grants. Apr. 2023.
2020 – Present	Fellowship Review	Hispanic Serving Institution Fellowship Program. 2020. College of Agriculture Teaching Excellence (CATE) Fellowship. Course reviewed ENVS 210 - Fundamentals of Environmental Science and Sustainability. 2020.
2019 – Present	Advisory Board	Arizona Institutes for Resilience International Development Network. 2020 – Present. 3.3 Next Generation Model for Healthy Aging. 2019.
2019 – Present	Executive Committee	Arid Lands Resource Sciences program, Graduate Interdisciplinary Programs.
2019 – Present	Scholarly review for Institutional Review Board (IRB)	IRB application from the French National Center for Scientific Research, at the University of Arizona. Apr. 2021. IRB application from the Department of Environmental Sciences. July 2020. IRB application from the Urban Planning Department. July 2019.

Outreach presentations

2023 "Shades of urban greening." Invited speaker at a gathering between US delegation of visitors and city officials and community members of Freemantle City. Perth, Australia. Oct. 2.

"Urban water management in the desert." Invited speaker for the Sustainability Ambassadors Program. Sustainable Tucson, AZ. Online. Aug. 19,

"Is desalination the solution to our border water crisis?". Invited panelist to the Coffee Break Permanent Forum of Binational Waters. Moderated by Rosario Sanchez and Sam Sandoval. Other panelists: Nicolas Pineda, Margaret Wilder, and Nelida Barajas. Virtual event. Aug. 10.

"From designing buildings to investigating environmental justice". Invited speaker to the Udall Scholars Orientation. Organized by the Udall Foundation. Marriot University Park, Tucson, AZ. Aug. 10.

"Tucson, Arizona: How a desert city became a leader in green infrastructure." Masterclass - College of Social and Behavioral Sciences Community Classroom. Tree Ring Lab 110, University of Arizona. Tucson, AZ. Feb. 10.

2020 "[My experience as a Gloria Barron Scholar](#)." Presented virtually. The Wilderness Society. Dec. 20.

2019 "Equity in green infrastructure: A case study in Tucson, Arizona." Presented at the Arizona Senior Academy. Tucson, Arizona. Nov. 27.

"State of the Cienega Watershed." Presented at the Science on the Sonoita Plain Symposium. Santa Cruz County Fairgrounds in Sonoita, Arizona. Jun. 22.

Participated in *Foro para Líderes: Plan Nacional de Desarrollo* (Leadership Forum: National Development Plan), organized by the *Instituto de los Mexicanos en el Exterior* (Institute for Mexicans Living Abroad, IME) and hosted by *Fundación México* (Mexico Foundation) at the Mexican Consulate in Tucson, AZ. Talked briefly about outreach and greening efforts in low-income communities of Tucson. Apr. 6.

2018 "Landscape Design at STAR Academic High School." Presented by **Zuniga-Teran, A.A.** and Rivera, M. to faculty at STAR Academic High School. Sept. 12.

"State of the Cienega Watershed." Presented at Pima County Regional Flood Control Brown Bag Series. Tucson, Arizona. Aug. 8.

Participated in a discussion panel on community engagement with teachers as part of the Arizona Project Wet to increase green infrastructure sponsored by NOAA. Panelists: **Zuniga-Teran, A.A.**, Avila, S., Bernal, S., Cowan, D. Project title: "Community Resilience to Climate Change: Recharge the Rain." Water Resource Research Center, University of Arizona. July 17.

"State of the Cienega Watershed." Presented at the Science on the Sonoita Plain Symposium. Elgin, Arizona. June 2.

2017 "Planning for green infrastructure." Invited speaker to the science class at STAR Academic High School in Tucson, AZ. Oct. 25.

2016 Participated in a discussion panel for the workshop "How can Tucson connect to global STEM opportunities?" organized by the Office of Latin American Partnership Initiatives, University of Arizona. Event held at the Pima Community College, Tucson, AZ. Oct. 15.

"From designing buildings to researching deserts." Presented at the Annual Meeting of the United Nations Association of Southern Arizona. Tanque Verde Ranch, Tucson, Arizona. Jun. 4.

2013 "Neighborhood Design, Wellbeing, and Conservation." Presented at a neighborhood association meeting of the Barrio Viejo Neighborhood. Tucson, Arizona. Oct.

CERTIFICATIONS

2013 UA Institutional Review Boards (IRB). ID: 2192026
 2009 Leadership for Energy and Environmental Design Accredited Professional (LEED-AP)
 1990 Certified Architect in Mexico, License No. 1632344

LANGUAGES

Spanish: Native speaker
 English: Advanced proficiency
 French: Basic proficiency

VOLUNTEER EXPERIENCE

2017 Airport Wash Green Infrastructure Project. Watershed Management Group. Tucson, AZ
 2014 Latin American Summer Research Program – University of Arizona
 2014 - 2015 US Green Building Council – Arizona Chapter
 2014 – 2015 The Nature Conservancy – Tucson office

ORGANIZATIONS

2022 – present Conference of Latin America Geography
 2022 – 2023 Association of Borderland Studies
 2022 - present American Association of Geographers
 2021 – 2022 American Geographical Society
 2011, 2017 American Association of University Women (AAUW)
 2014 – 2016 Biosciences Toastmasters
 2010 – 2015 Arid Lands Resource Sciences student club

SOFTWARE SKILLS

AutoCAD	eQUEST, Energy10, COMcheck, REScheck
MS Office	Geographic Information Systems (GIS)
UAccess (database)	Erdas Imagine (Remote Sensing)
Photoshop	Statistical Package for the Social Sciences (IBM-SPSS)
Sketch-up	GoToMeeting