

# ZACK GUIDO | CV

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## EDUCATION

Ph.D. UNIVERSITY OF ARIZONA, School of Natural Resources & Environment, Tucson, AZ  
M.Sc. UNIVERSITY OF COLORADO, Geoscience, Boulder, CO  
B.A. LAFAYETTE COLLEGE, Geoscience, Easton, PA  
SCHOOL FOR FIELD STUDIES, Atenas, Costa Rica  
NATIONAL OUTDOOR LEADERSHIP SCHOOL, Semester course in Pac. Northwest, USA

## APPOINTMENTS

2020-p RESEARCH PROFESSOR, Arizona Institute for Resilience (AIR), Univ. of Arizona, Tucson  
2020-p DIRECTOR, INTERNATIONAL RESILIENCE LAB, AIR, Univ. Arizona, Tucson  
2018-p RESEARCH FACULTY, School of Natural Resources and Environment, Univ. of Arizona, Tucson  
2013-p RES AFFILIATE, Climate Assessment for the Southwest (CLIMAS), Univ. of Arizona, Tucson  
2013-20 PROGRAM MANAGER & RESEARCH SCIENTIST, Institute of the Env., Univ. of Arizona, Tucson  
2008-13 ASSOCIATE STAFF SCIENTIST, CLIMAS, Univ. of Arizona, Tucson  
2005-15 CO-FOUNDER, Terra Resource Development International (501c3), Laguna Beach, CA  
2007-08 HYDROLOGIST, Errol L. Montgomery and Associates, Tucson  
2004-06 GRAD. RESEARCH ASSISTANT, Inst. for Arctic & Alpine Research, Univ. Colorado, Boulder, CO  
2000-03 PEACE CORPS, Bolivia, South America

## PUBLICATIONS

### PEER REVIEW: PUBLISHED

2025 S. Clark, **Guido, Z.**, et al. Stakeholder Engagement Strategies to Build Resilience to  
(35) Compound Hazards: Engaging Community-Based Organizations in Research. *Climate Risk Management*. ([Link](#))  
2023 Mendez-Lazaro et al., 2023. U.S. Caribbean in Fifth National Climate Assessment.  
(34) Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. ([Link](#))  
2023 A. Gerlak, **Guido Z.**, et al. Stakeholder Engagement in the Co-Production of Knowledge for  
(33) Environmental Decision-making. *World Development*. ([Link](#))  
2022 **Z. Guido**, Allen, T., Mason, S., and Mendez-Lazaro, P. Hurricanes and Anomalous Heat.  
(32) *Geophysical Research Letters*, 49(21). ([Link](#))

- 2022 **Z. Guido**, McMahon, B., Hoy, D., et al. Public Engagement on Weather and Climate with a  
(31) Monsoon Fantasy Forecasting Game. *Bulletin of the American Meteorological Society*. ([Link](#))
- 2022 A. Zimmer, **Guido Z.**, Davies J., Joshi, N., Chilenga, A., and Evans, T. Food Systems and  
(30) Rural-Urban Linkages in African secondary cities. *Urban Transitions*. ([Link](#))
- 2022 **Z. Guido** et al. Implementing a Knowledge System: Lessons from the Global Stewardship of  
(29) Climate Services. *Global Environmental Change*. ([Link](#))
- 2022 M. Crimmins, **Guido, Z.**, & McMahan, B. Guide to Southwest U.S. Station Climate  
(28) Summaries. *University of Arizona Cooperative Extension Bulletin*, az2002. ([Link](#))
- 2022 H. H. Covert, Soares, L. F., Wahid, F. A., Allen, T., **Guido, Z.**, Johnson, D., et al. Priorities for  
(27) Bolstering Public Health Resilience in the Context of Climate Change in Dominica and  
Puerto Rico. *Annals of Global Health*, 88(1), 63–64. ([Link](#))
- 2021 **Guido, Z.**, Lopus, S., Waldman, K., Hannah, C., Zimmer, A., Krell, N., Knudson, C., Estes, L.,  
(26) Caylor, K. K., & Evans, T. P. Perceived Links Between Climate Change and Weather Forecast  
Accuracy: New Barriers to Tools for Agricultural Decision-making. *Climatic Change*. ([Link](#))
- 2021 K. Rhiney, **Guido, Z.**, Knudson, C., Avelino, J., Bacon, C., Leclerc, G., Aime, C., and Bebber,  
(25) D. Epidemics and the Future of Coffee. *Proceedings of the National Academies of Sciences*.  
([Link](#))
- 2021 K. Waldman, **Guido Z.**, Todd, P., Evans, T. Carrico, A., and Attari, S. Reorienting climate  
(24) decision making research for developing countries. *Current Opinion in Environmental  
Sustainability*. ([Link](#))
- 2020 J. Davies, Hannah, C., **Guido, Z.**, Zimmer, McCann, L., Battersby, J., A., Evans, T. Barriers to  
(23) Urban Agriculture in Sub-Saharan Africa. *Food Policy*. ([Link](#))
- 2020 **Z. Guido**, Zimmer, A. Lopus S., et al. Farmer Forecasts: Impacts of Seasonal Rainfall  
(22) Expectations on Agricultural Decision-Making in Sub-Saharan Africa. *Climate Risk  
Management*. ([Link](#))
- 2020 A. Zimmer, **Guido, Z.**, Tuholske, C., Pakalniskis, A., Lopus, S., Caylor, K., & Evans, T.  
(21) Dynamics of population growth in secondary cities across southern Africa. *Landscape  
Ecology*. ([Link](#))
- 2020 **Z. Guido**, Knudson, C., and Rhiney, K. Will COVID-19 be One Shock Too Many for  
(20) Smallholder Coffee Livelihoods? *World Development*. ([Link](#))
- 2020 N. Krell, Giroux, S. A., **Guido, Z.**, Hannah, C., Lopus, S. E., Caylor, K. K., Evans, T. Use of  
(19) mobile phone services for agricultural decision-making in Kenya, *Climate and Development*.  
([Link](#))
- 2020 K. Rhiney, Knudson, C., **Guido, Z.** Cultivating Crisis: Coffee, Climate, and the More-than-  
(18) Human Geographies of the Leaf Rust Disease Epidemic in Jamaica. *Annals of American  
Association. of Geographers*. ([Link](#))
- 2020 **Z. Guido**, Knudson, C., Finan T., Madajewicz, M., and K. Rhiney. Shocks and Cherries: The  
(17) Production of Vulnerability Among Smallholder Coffee Farmers in Jamaica. *World  
Development*. ([Link](#))

- 2020 A. K. Gerlak, Mason, S. J., Daly, M., Liverman, D., **Guido, Z.**, et al. The Gnat and the Bull:  
(16) Do Climate Outlook Forums Make a Difference? *Bulletin of the American Meteorological Society*. ([Link](#))
- 2020 K. Uhlman, Eastoe, C., **Guido Z.**, Crimmins, M.A., Purkey-Deller, A., Eden, S. Assessing  
(15) the vulnerability of an aquifer to climate variability through community participation in  
Arivaca, Arizona, *Journal of Contemporary Water Research and Education*. ([Link](#))
- 2019 C. Knudson and **Guido Z.** The missing middle of climate services: Layering multiway, two-  
(14) way, and one-way modes of communicating seasonal climate forecasts. *Climatic Change*.  
([Link](#))
- 2019 **Z. Guido**, Knudson C., and Campbell, D. Climate information services for adaptation: what  
(13) does it mean to know the context? *Climate and Development*. ([Link](#))
- 2019 R. Mahon, Greene, C., Cox, S. A., **Guido, Z.**, Gerlak, A. K., Petrie, J. A., ... Farrell, D. 2019: Fit  
(12) for purpose? Transforming National Meteorological and Hydrological Services into National  
Climate Service Centers. *Climate Services*. ([Link](#))
- 2018 **Guido, Z.**, Finan, T., Rhiney, K., Madajewicz, M., ..., 2018. The stresses and dynamics of  
(11) smallholder coffee systems in Jamaica's Blue Mountains: a case for the potential role of  
climate services. *Climatic Change*. 147, 253–266. ([Link](#))
- 2018 A. K. Gerlak, **Guido, Z.**, et al. 2017. Building a Framework for Process-Oriented Evaluation  
(10) of Regional Climate Outlook Forums: *Weather, Climate and Society*. ([Link](#))
- 2017 B. S. Underwood, **Guido Z.**, Gudipudi, P., and Feinberg, Y. 2017: Increased Costs to U.S.  
(9) Pavement Infrastructure from Future Temperature Rise. *Nature Climate Change*. ([Link](#))
- 2016 **Z. Guido**, McIntosh, J., Papuga, S., and Meixner, T. 2016: Seasonal glacial meltwater  
(8) contributions to surface water in the Bolivian Andes: A case study using environmental  
tracers. *Journal of Hydrology: Regional Studies*. ([Link](#))
- 2016 **Z. Guido**, Rountree, V., Greene, C., Gerlak, A., and Trotman, A. 2016: Connecting Climate  
(7) Information Producers and Users: Boundary Organization, Knowledge Networks, and  
Information Brokers at Caribbean Climate Outlook Forums. *Weather, Climate and Society*.  
([Link](#))
- 2016 A. M. Meadow, **Guido, Z.** Crimmins, C., and McCleod, J. 2016: From Principles to Action:  
(6) Applying the National Research Council's Principles for Effective Decision Support to the  
Federal Emergency Management Agency's Watch Office, *Climate Services*. ([Link](#))
- 2015 A. M. Meadow, Ferguson, D. B., **Guido, Z.**, Horangic, A., Owen, G., and Wall, T. 2015:  
(5) Moving Toward the Deliberate Co-Production of Climate Science Knowledge, *Weather,  
Climate and Society*. ([Link](#))
- 2013 **Z. Guido**, Hill, D., Crimmins, M., and Ferguson, D., 2013: Informing decisions with a  
(4) climate synthesis product: implications for regional climate services. *Weather, Climate and  
Society*. ([Link](#))
- 2012 J. S. Kargel, Alho, P., Buytaert, W., Cèlleri, R., Cogley, J. G., Dussailant, A., **Guido, Z.**, et al.,  
(3) J. 2012: Glaciers in Patagonia: Controversy and prospects. *Eos Trans. AGU*, v. 93. ([Link](#))

2009 (2)	D. J. Ward, Anderson, R.S, <b>Guido, Z.</b> , and Briner, J.P. 2009: Numerical modeling of cosmogenic deglaciation records, Front Range and San Juan Mountains, Colorado. <i>J. Geophysical Research</i> , 114. ( <a href="#">Link</a> )
2007 (1)	<b>Z. Guido</b> , Ward, D. J. and Anderson, R. S. 2007: Pacing the post-LGM demise of the Animas Valley Glacier and the San Juan Mountain Icecap, Colorado. <i>Geology</i> 35 (8): 739-742. ( <a href="#">Link</a> )
	PEER-REVIEW: IN REVIEW
(5)	Z. Guido, Finan, T., Islam, M., Seema, F., Hasan, N., Akter, S., Ghosh, B., Shovo, F.A., and Soren, J., How the Exercise of Power and Resilience Capacities Relate: Evidence from Bangladesh. <i>Global Environmental Change</i> .
(4)	T. Anderson, Pons, D., Guido, Z., Luis Tun, L., and Anchukaitis K., Usability of Seasonal Climate Forecasts in the Guatemalan Dry Corridor. <i>Weather Climate and Society</i> .
(3)	T. Anderson, Pons, D., Taylor, M., Xuruc, A., Rodríguez Salvatierra, H., Guido, Z., Sullivan, J., Liverman, D., and Anchukaitis, K. Complexity and mediating factors in farmers' climate perceptions and agricultural adaptation strategies in the Guatemalan Dry Corridor. <i>Climatic Change</i> .
(2)	C. Knudson, Guido Z., Carr, E., Mason, S., and Finan, T. Overlooked Value of Seasonal Forecasts for Climate Adaptation. <i>Nature Climate Change</i> .
(1)	A. Zimmer, Guido, Z., Baylis, K., Anderson, P., Wang, and J. Evan, T. Socio-environmental determinants of maize price volatility in southern Africa. <i>Frontiers in Climate</i> .
	PROFESSIONAL REPORTS
2024 (13)	E. Goto, Guido, Z., Clark, S., Enhancing Climate Resilience in the Caribbean Through the Improvement of Caribbean Climate Outlook Forums (CariCOF) Project. A report to the Caribbean Institute for Meteorology and Hydrology. University of Arizona. 80 pp.
2024 (12)	Finan, T., Islam, M., <b>Guido, Z.</b> , Seema, F., Hassan, N. Akter, S., Ghosh, B., Soren, J., Shovo, F.A., Sequencing, Layering, and Integration (SLI): Insights into Complex Programming from Bangladesh. A report for USAID. University of Arizona. 13 pp. ( <a href="#">Link</a> )
2024 (12)	Finan, T., Islam, M., <b>Guido, Z.</b> , Seema, F., Hassan, N. Akter, S., Ghosh, B., Soren, J., Shovo, F.A., A Practitioner's Guide to Localized Research: Community-Based Ethnography for Resilience Outcomes. A report for USAID. University of Arizona. 26 pp. ( <a href="#">Link</a> )
2023 (11)	Finan, T., Islam, M., <b>Guido, Z.</b> , Seema, F., Hassan, N. Akter, S., Ghosh, B., Soren, J., Shovo, F.A., Gender, Power, and Resilience in the Char and Haor Regions of Bangladesh: Evidence-based Learning for Resilience Programming. A report for USAID. University of Arizona. 42 pp. ( <a href="#">Link</a> )
2023 (10)	<b>Guido, Z.</b> Mendez-Lazaro, P., McMahon, B., Clark, S., Cabrera Rivera, L. T., Cintrón Moscoso, F., Crespo, W., Detrés, Y., Méndez, J., Ramírez, L., and Castro Sitiriche, M., 2023: Knowledge and Action Gaps at the Intersection of Climate Hazards, Public Health, and Energy Resilience in Puerto Rico. University of Arizona. 40 pp. ( <a href="#">Link</a> ).

- 2022 (9) A. Gerlak, **Guido, Z.** and Hannah, C. 2022: Intra-African Caribbean Pacific Assessment Report: Caribbean Region, World Meteorological Organization. pp.135. ([Link](#))
- 2017 (8) A. Gerlak, **Guido, Z.** and Knudson, C. 2017: The Mid-Term Review of the Global Framework for Climate Services, World Meteorological Organization. pp.68. ([Link](#))
- 2016 (7) T. Rahman, Buizer, J., and **Guido, Z.** 2016: The Economic Impact of Seasonal Drought Forecast Information Service in Jamaica, 2014-2015. University of Arizona. pp. 62 ([Link](#)).
- 2014 (6) **Z. Guido**, Buizer, J., Finan, T., Gavin, S., L., Gerlak, A., Goddard, Greene, C., Johnson, R., Liverman, D., Mason, S., Muñoz, A. (2014). An International Research and Applications Project (IRAP) Caribbean Workshop Report: Integrating Climate Information and Decision Processes for Regional Climate Resilience. University of Arizona Institute of the Environment and Columbia University International Research Institute for Climate and Society. pp. 48 ([Link](#)).
- 2014 (5) D. B., Ferguson, Thomas, R., **Guido, Z.**, Ethen, L., Zucker, C., Chorover, G., and Johnson, R. 2014. Planning for Change in Southern Arizona: A report from the Southern Arizona Regional Climate Summit for Municipal Leaders. Tucson, AZ: Climate Assessment for the Southwest ([Link](#)).
- 2013 (4) **Z. Guido**, 2013: Drought on the Rio Grande, *Rural Connections*, 7(1): 7–10 ([Link](#)).
- 2012 (3) D. Ferguson and **Guido, Z.**, 2012: Communicating Climate Variability: La Niña Drought Tracker. Climate Service Partnership, Climate Service Case studies ([Link](#)).
- 2010 (2) **Z. Guido**, and Hartman, H., 2010. The interface of science and policy: an IAI-NCAR Colloquium provides perspective. Inter-American Institute for Global Change ([Link](#)).
- 2009 (1) **Z. Guido**, Ferguson, D.B, and Garfin, G., 2009. Putting Knowledge into Action: Tapping the Institutional Knowledge of U.S. Fish and Wildlife Service Regions 2 and 8 to Address Climate Change. Tucson, AZ: Climate Assessment for the Southwest ([Link](#)).

#### GRANTS AWARDED: 18 FOR \$13,253,938

- 2024 (18) Caribbean Climate Change Adaptation, Cancer, and Health Disparities Research Center (CCCARIB- CARES); 2024-2027. \$173,256 (Subaward to US\$M1 grant lead by Univ of Puerto Rico); Guido, Z. (Co-PI)
- 2024 (17) Enhancing Climate Resilience in the Caribbean Through the Improvement of Caribbean Climate Outlook Forums (CariCOF) Project; 2024. \$67,990. Caribbean Institute for Meteorology and Hydrology; Guido, Z. (Co-PI)
- 2023 (16) Developing Hydroclimate-Adaptive Management Paradigms in Energy and Mining; 2023-2024; Arizona Institute for Resilience; **\$100,000**; University of Arizona. C. Castro, Chang, H., Guido, Z., Lemonine, D., and Tellman, B.
- 2022 (15) Enhancing the Evidence for Humanitarian Action (EEHA) in the Face of Climate Change; 2022-2024; USAID Bureau of Humanitarian Assistance; **\$999,995**; Z. Guido (lead), G.

	Collins., A. Braithwaite, J. Michler, A. Josephson, B. Tellman, T. Finan, T. Frankenberger, C. Hannah, K. Fox.
2021 (14)	Stakeholder Engagement Activities in the Caribbean: Prospects and Pitfalls; 2021; World Meteorological Organization, <b>\$43,000</b> . Z. Guido and Gerlak., A.
2021 (13)	Public Engagement in Southwest Monsoon Forecasting: A Prototype Game to Build Climate Awareness and to Evaluate Community Forecast Skill, Arizona Institutes for Resilience, University of Arizona, <b>\$13,958</b> . Z. Guido, McMahon, B., Crimmins, C., and Granillo, R.
2021 (12)	A Resilience Learning Agenda for Community-Based Organizations at the Intersection of Climate Hazards, Energy Security, and Public Health in the U.S. Caribbean, National Oceanic and Atmospheric Administration (NOAA); 2021-2022; <b>\$99,922</b> ; Z. Guido (UA, lead), P. Mendez-Lazaro (U. Puerto Rico), B. McMahan (UA)
2021 (11)	Power, Gender, and Resilience in the Char and Haor Regions of Bangladesh: Sustainable resilience programming for SHOUHARDO III; US Agency for International Development; 2021-2023; <b>\$284,127</b> ; T. Finan (UA, lead) and Z. Guido
2020 (10)	RAPID: Spatial Resilience of Food Production, Supply Chains, and Security to COVID-19; National Science Foundation; 2020-2021; <b>\$199,905</b> ; Evan, T. (UA, lead), Guido, Z., Bayless, K., Konar, M.
2018 (9)	Integrating Seasonal and Sub-seasonal Climate Information into Public Health Contexts: Co-Producing Decision Support Applications in Puerto Rico and Dominica; National Oceanic and Atmospheric Administration; 2018-2020; <b>\$690,042</b> ; Z. Guido (UA, lead), Lichtveld, M. (Tulane), Duncan, B. (U. Colorado), Henderson, J. (U. Colorado), Mason, S. (Columbia U.)
2017 (8)	Mid-Term Review of the Global Framework for Climate Services; World Meteorological Organization; 4/17-10/17; <b>\$75,160</b> ; Guido, Z. (co-PI), Gerlak, A. (UA), and Knudson, C. (UA)
2013-17 (7)	IRAP: Integrating Climate Information and Decision Processes for Regional Climate Resilience, National Oceanic and Atmospheric Administration and United States Agency of International Development; 2013-2019; <b>\$6,500,000</b> ; Buizer, J. (UA, lead), Goddard, L (Columbia U., lead), Guido, Z. et al.
2012-17 (6)	Adapting to Climate Variability, Thresholds, and Extremes in the Southwest: The Climate Assessment for the Southwest (CLIMAS); National Oceanic and Atmospheric Administration; 2012–2017; <b>\$3,481,238</b> . Overpeck, J. (UA, lead), Colby, B. (UA), Comrie, A. (UA), Crimmins, M. (UA), Dubois, D. (UA), Ferguson, D. (UA), Frizvold, G. (UA), Garfin, G. (UA), Guido, Z. (UA), Hartmann, H. (UA), Owen, B. (UA), Wilder, M. (UA), Woodhouse, C. (UA)
2015 (5)	Valuation of Drought Information Service; Engility; 6/2015-11/2016; <b>\$59,000</b> ; J. Buizer, (UA, lead), Rahman, T. (UA), and Guido, Z.
2012-15 (4)	Climate and Weather Services for Disaster Management: A FEMA, NWS, and CLIMAS Collaboration, National Oceanic and Atmospheric Administration; 2012–2014; <b>\$165,260</b> ; M. Crimmins (UA, lead), Guido, Z., and Meadow, A. (UA)



2012-13 (3)	Contributions to <a href="http://www.climate.gov">www.climate.gov</a> , 2012–2013; <b>\$17,000</b> ; Z. Guido (PI).
2010-13 (2)	Climate Change Boot Camps, National Oceanic and Atmospheric Administration; 2010–2013; <b>\$274,085</b> ; D. Ferguson (UA, lead); Buizer, J., Chhetri, N. (Az State Univ), Guido, Z., Quay, R. (Az State U.), Roy, M. (Az State U.)
2010-11 (1)	Water Resource Adaptation Strategies in Developing Countries: Climate Change “Realities”, Univ. AZ-Vice Present of Research Faculty; 2010–2011; <b>\$10,000</b> ; S. Papuga (UA, lead) and Guido, Z.
<b>PENDING AND UNFUNDED GRANTS SUBMITTED: 12 FOR \$16,742,823</b>	
2025 (12)	(Pending) Are Small-scale Farmers Losing Confidence in Weather Forecasts? A Multi-Country Study on Drivers and Feedbacks of Technical Information Use; 2025-2027. \$497,681. National Science Foundation. Guido, Z. (Co-PI)
2024 (11)	Feedbacks between perceived climate change and the use of weather forecasts: a multi-country analysis of small-scale farmers; 2024-2026. \$400,000. National Science Foundation. Guido, Z. (Co-PI)
2023 (10)	DISES: Constructing the Blue Mountain Voice Through Generative AI: Modeling the Effects of Inequality on Smallholder Agricultural Productivity; 2024-2027. <b>\$1,800,000</b> , National Science Foundation. Guido, Z. (lead PI)
2023 (9)	A Capacities Approach to Measuring Climate Adaptation Among Farmers, Local Systems & Landscapes; 2023-2025. <b>\$5,500,000</b> ; Bill and Melinda Gates Foundation. Michler, J. (Co-PI), Josephson, A. (Co-PI), Guido, Z. (Co-I).
2022 (8)	Effective and Equitable Climate Services: Foundations and Frontiers; 2022; NOAA; <b>\$100,000</b> ; Z. Guido (lead), C. Knudson, S. Mason, T. Finan.
2021 (7)	DISES: Modeling the Spread of Coffee Leaf Rust Disease and its Impact on the Resilience of Smallholder Agriculture; National Science Foundation; 2021-2024; <b>\$1,599,692</b> ; Z. Guido (UA, lead), A. Gerlak (UA), K. Rhiney (Rutgers), C. Knudson (U. Hawaii), D. Bebbier (Exeter, UK), R.-A. Smith (Jamaica)
2020 (6)	DISES: Modeling the Spread of Coffee Leaf Rust Disease and its Impact on the Resilience of Smallholder Agriculture; National Science Foundation; 2021-2024; <b>\$1,598,311</b> ; Z. Guido (UA, lead), A. Gerlak (UA), K. Rhiney (Rutgers), C. Knudson (U. Hawaii), D. Bebbier (Exeter, UK), R.-A. Smith (Jamaica)
2020 (5)	RAPID: COVID-19 Effects on Labor Mobility and U.S. Migration Pressures in Coffee Systems; U.S. National Science Foundation; <b>\$200,000</b> ; Z. Guido (UA, lead), A. Guerra (Guatemala, Instituto Privado de Investigación sobre Cambio Climático), R. Johnson (UA)
2019 (4)	Where Plant Pathogens, Farmers, Markets, and Climate Collide: The Production of Crisis and Resilience in Export-oriented Smallholder Agriculture; National Science Foundation; 2020-2023; <b>\$1,599,373</b> , Z. Guido (UA, lead), Bebbier, D. (Exeter, UK), Knudson C. (U. Hawaii), Rhiney, K. (Rutgers); R.-A. Smith (Jamaica)

2018 (3)	Integrated strategic management of natural resources in the territory of Moctezuma, Sonora, Mexico. National Consortium for the Regional Scientific Development and Innovation—The University of Arizona National Council of Science and Technology; <b>\$52,800</b> ; H. Zárate (Co-PI; U. of the Sierra, Moctezuma, Sonora) and Guido, Z. (Co-PI)
2018 (2)	Climate Services for Equitable & Effective Climate Adaptation; National Science Foundation; 2018-2021; <b>\$1,598,770</b> ; D. Liverman (UA, lead), Guido, Z. (Co-I), Gerlak, A. (UA), Knudson C. (UA), Anchukaitis, K. (UA)
2016 (1)	Climate information for all? Creating effective & equitable climate services; National Science Foundation; 2017-2021; <b>\$1,796,196</b> ; D. Liverman (UA, lead), Guido, Z., Gerlak, A. (UA), Knudson C. (UA), Anchukaitis, K. (UA)

#### CLASSES TAUGHT

2017-p	Guess lecture (~2-3 per year) on topics related to food security and climate adaptation, U. of Arizona
2019	Geography 230, “Our Changing Climate;” 59 Students. 3 credit hours, U. of Arizona
2006	Geology 101, Introduction to Geological Principles; lecture and lab, U. of Colorado

#### MENTORING

2022-24	SUPERVISOR: manage the activities of 4 research scientists
2021-22	SUPERVISOR: manage the activities of 2 research scientists
2015-p	ADVISOR: 11 U.S. graduate students, 1 post-doctoral scientist, and 1 undergraduate honors candidate; 1 Jamaican graduate student

#### SELECT ORAL PROF CONFERENCE PRESENTATIONS: 32 TOTAL (10 NOT SHOWN); 10 INVITED

June 2024	<b>(Invited)</b> “Evidence to Action: Resilience and Climate Change Adaptation,” International Center for Evaluation and Development Annual African conference, Ghana, July 2024
Sept 2022	“Knowledge and Action Gaps at the Intersection of Climate Hazards, Public Health, and Energy Resilience in Puerto Rico,” NOAA Regionally Integrated Sciences and Assessment virtual meeting.
Sept 2020	“Climate Services for Public Health: Case Studies in Puerto Rico and Dominica”, North American Climate Service Partnership, Virtual.
Mar 2020	<b>(Invited)</b> “The Climate System: How it Works, the Role of Heat, and Main Features of the Caribbean Climate,” Caribbean Heat Awareness Week Virtual Symposium.
Dec 2018	“Climate Information Services for Adaptation: What Does it Mean to Know the Context?”, American Geophysical Union Annual Conference, New Orleans, LA
Dec 2018	“Impacts of climate information on coffee farms in Jamaica”, American Geophysical Union Annual Conference, Washington, DC.



Nov 2018	"The Challenges of Resilience among Blue Mountain Coffee Producers in Jamaica," Resilience Measurement, Evidence, and Learning Conference, New Orleans, LA.
Dec 2017	"Challenges to the Transdisciplinarity of Climate Services: A Coffee Farming Case from Jamaica's Blue Mountains," American Geophysical Union Annual Conference, New Orleans, LA. Poster.
Apr 2017	"Information Access for Small Farmers in Jamaica's Coffee Sector: Hurdles for Climate Services," American Association of Geographers annual conference, Boston, MA
Dec 2016	<b>(Invited)</b> "Climate Services and The Role of the Social Sciences," Caribbean Climate Outlook Forum, Grenada
May 2016	<b>(Invited)</b> "Climate and Weather Information Services: Theory and Practice," Caribbean Climate Outlook Forum, Dominica
Mar 2016	"Social, Environmental, and Climate Stresses Experienced by Jamaican Blue Mountain Coffee Farmers," Association of American Geographers annual meeting, San Francisco
Jun 2014	<b>(Invited)</b> "Integrating Climate Adaptation into Planning," 39th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO
Apr 2014	"Contrasting Approaches for Connecting Climate-related Research to Decision Making: From Melting Andean Glaciers to Western US Floods." School of Natural Resources and Environment Departmental Seminar, Tucson, AZ
Apr 2014	<b>(Invited, plenary speaker)</b> "Connecting Climate and Water Research to Decision Making: The road less traveled," Earth Week Symposium, Univ. of Arizona, Tucson, AZ
Feb 2014	"The Climate Context in which Extreme Events Unfold," Federal Emergency Management Agency RISC meeting, Oakland, CA
May 2013	<b>(Invited)</b> "Potential impacts in the SW in a warming world: What do 122 experts say?" Sky Island Alliance Climate Adaptation Workshop, Tucson, AZ
Dec 2012	"Informing Decisions with a Climate Synthesis Product: Implications for Regional Climate Services," American Geophysical Union annual conference, San Francisco, CA
Sep 2012	<b>(Invited)</b> "The Climate Context: Seasoned and Emerging Research on Climate Variability and Change in the Southwest." Arizona Hydrological Society annual symposium, Phoenix, AZ
May 2012	<b>(Invited)</b> "Climate Adaptation in Developing Countries. Adaptation Futures," Tucson, AZ
Dec 2011	<b>(Invited)</b> "A brief tour of climate change impacts now and in the future: what it means for the Southwest?" Water Resources for Ranches and Cattle workshop, Laughlin, NV
Jul 2011	"Regional Climate Services: Taking advantage of climate events to inform decisions." 19th Conference on Applied Climatology, Asheville, NC
Jul 2010	<b>(Invited)</b> "Improving climate services in the West: Evaluation lessons from CLIMAS." Federation of Earth Science Information Partners (ESIP) summer meeting, Knoxville, TN

Jan 2010	"Meeting demand for the undervalued climate service: having ability to engage in medium-term projects." American Meteorological Society annual meeting, Atlanta, GA
Sep 2009	"Putting Knowledge into action: Tapping to the institutional knowledge of U.S. Wildlife Service to address climate change." Sustainability of semi-Arid Hydrology and Riparian Areas annual meeting, Tucson, AZ

#### GENERAL PUBLIC SCIENCE COMMUNICATION ACTIVITIES: 110 PODCASTS; 36 FEATURE ARTICLES

2012-p	Host, Southwest Climate Podcast ( <a href="http://www.climas.arizona.edu/media/podcasts">http://www.climas.arizona.edu/media/podcasts</a> )
2012-13	Writer, ClimateWatch Magazine, an on-line magazine published by NOAA ( <a href="http://www.climate.gov">www.climate.gov</a> )
2008-13	Science editor, Southwest Climate Outlook — a monthly, e-publication; published 36 feature articles between 2008–2012 ( <a href="http://www.climas.arizona.edu/swco">www.climas.arizona.edu/swco</a> )
2009-13	Writer, Southwest Climate Change Network — a website that improves climate literacy in the Southwest ( <a href="http://www.swclimatechangenetwork.org">www.swclimatechangenetwork.org</a> )

#### SERVICE AND OUTREACH

2017-p	Climate Science Contributor, Bill Buckmaster Show, Daily Radio Program, Tucson, AZ <a href="http://www.buckmastershow.com/contributors/">http://www.buckmastershow.com/contributors/</a>
2021-p	Advisory Committee, University of Arizona Center for Climate Adaptation Sciences and Solutions
2020-21	Advisory Committee, University of Arizona Science Policy and Diplomacy Initiative
2019-p	Review Editor, Frontiers in Climate ( <a href="https://www.frontiersin.org/journals/climate/sections/climate-services#editorial-board">https://www.frontiersin.org/journals/climate/sections/climate-services#editorial-board</a> )
2019	Organizing Committee, 18 <sup>th</sup> Annual Climate Predications and Applications Workshop, Phoenix, AZ
2019	Organizing Committee, Rise Conference, Transforming University Engagement in Pre- and Post-Disaster Environments: Lessons from Puerto Rico, National Council for Science and the Environment, <a href="https://www.albany.edu/rise2019/home.html">https://www.albany.edu/rise2019/home.html</a>

#### STAKEHOLDER WORKSHOPS ORGANIZED AND LED

Jan 2025	"Co-producing signals of change for collective action interventions." Stakeholder workshop with CARE-Bangladesh and their development partners.
Oct 2023	"Novel Monitoring and Evaluation Metrics for Livelihood Programming." 3 Multisector stakeholder workshops with development implementers in Bangladesh.
Sept 2023	"Novel Monitoring and Evaluation Metrics for Livelihood Programming." 4 Multisector stakeholder workshops with development implementers in Kenya.

Jun 2022	“Knowledge and action gaps at the Intersection of Climate Hazards, Public Health, and Energy Resilience in Puerto Rico”. Multistakeholder workshop exploring solutions to climate impacts on public health. 33 participants.
Feb 2020	Building Knowledge about Intersections of Public Health Issues, Hurricanes, and Heat in Puerto Rico. Multistakeholder workshop exploring solutions to climate impacts on public health. ~20 participants.
Mar 2019	“Building Public Health Resilience to Severe Weather in a Changing Climate.” Multistakeholder workshop in Puerto Rico exploring solutions to climate impacts on public health. ~30 participants.
Mar 2019	“Building Public Health Resilience to Severe Weather in a Changing Climate in Dominica.” Multistakeholder workshop exploring solutions to climate impacts on public health. ~30 participants.
Jan 2018	(3 <sup>rd</sup> in 3-part series) Six workshops hosted in communities in the Blue Mountains; total participation ~175 coffee farmers. Goals: advance climate risk management; and farmers to use information tools.
Aug 2017	(2 <sup>nd</sup> in 3-part series) Six workshops hosted in communities in the Blue Mountains; total participation 175 coffee farmers. Goals: advance climate risk management; and farmers to use information tools.
Jun 2017	(1 <sup>st</sup> in 3-part series) 6 workshops hosted in the Blue Mountains; total participation 190 coffee farmers. Goals: advance climate risk management; and farmers to use information tools.
Apr 2017	2-day “Training of the Trainers Workshop: Developing tools to manage disease and climate risks.” Participants include farmers, extension, and key actors in the coffee supply chain. Spanish Town, Jamaica; 40 participants.
Oct 2016	2-day workshop with coffee farmers and sector stakeholders, including the International Institute for Cooperation on Agriculture, ACDI-VOCA, the Jamaica Coffee Industry Board, Jamaican Met Service, University of West Indies, and the FAO. Kingston, Jamaica; 20 participants.
Jun 2016	2-week training on social science approaches and methods that advance climate services for the Caribbean Institute of Meteorology and Hydrology; Tucson, AZ; 15 participants.
Jan 2016	2-day workshop with coffee farmers and sector stakeholders, including the International Institute for Cooperation on Agriculture, ACDI-VOCA, the Jamaica Coffee Industry Board, Jamaican Met Service, and University of West Indies. Kingston, Jamaica; 25 participants.
Dec 2014	Advancing Climate Resilience: New Conversations About Climate Risks; Antigua and Barbuda; 73 participants from 22 countries.
May 2014	Integrating Climate Information and Decision Processes for Regional Climate Resilience in the Caribbean; Kingston, Jamaica; 86 participants from 26 countries ( <a href="http://irap.iri.columbia.edu/capacity-building/climate-workshop">http://irap.iri.columbia.edu/capacity-building/climate-workshop</a> ).

Nov 2013	Regional Climate Summit for Municipal Leaders: Economic, Health, Water and Transportation Impacts; Flagstaff, AZ; 85 participants ( <a href="http://www.climas.arizona.edu/workshops/Southern-AZ-Regional-Climate-Summit">www.climas.arizona.edu/workshops/Southern-AZ-Regional-Climate-Summit</a> ).
Oct 2013	Advancing Climate Adaptation and Resiliency Planning in Flagstaff; Flagstaff, AZ; 33 participants ( <a href="http://www.climas.arizona.edu/events/2966">www.climas.arizona.edu/events/2966</a> ).
Oct 2012	Hydrologic Extremes in a Warming World: California Perspectives II; La Jolla, CA; 18 participants ( <a href="http://www.climas.arizona.edu/workshops/hydrologic-extremes2">www.climas.arizona.edu/workshops/hydrologic-extremes2</a> ).
Oct 2012	Arizona Municipal Climate Planning Workshop; Phoenix, AZ; 30 participants ( <a href="http://www.climas.arizona.edu/workshops/AZ-Municipal-Climate-Planning">www.climas.arizona.edu/workshops/AZ-Municipal-Climate-Planning</a> ).
May 2011	Hydrologic Extremes in a Warming World: California Perspectives I; La Jolla, CA; 25 participants.

#### AWARDS: FELLOWSHIPS, SCHOLARSHIPS & DISTINCTIONS

2022	Nominated by the University of Arizona (1 of 3 University scholars) for the International Science Council's <a href="#">Frontiers Planet Prize</a> .
2019	Distinguished Scholar for International Collaboration, School of Natural Resources and Environment
2015	Most outstanding doctoral dissertation for the School of Natural Resources and Environment
2014	McGinnies Scholars in Arid Lands Studies, School of Natural Resources and Environment
2013	Horton E. Noon Memorial Scholarship, U. of Arizona College of Agriculture and Life Science
2013	Pistor-Stanley Scholarship in Agriculture, U. of Arizona College of Agriculture and Life Science
2013	Research Travel Grant: Institute of the Environment, U. of Arizona
2012	U.S. Geological Society of America student research grant *Distinguished application; proposal was selected as top 20 out of 636 in conception and presentation
2012	Carson Scholars Fellowship, Institute of the Environment, U. of Arizona *Awarded to exemplary PhD students engaged in interdisciplinary environmental research
2012	Opening plenary early-career address, international climate adaptation conference, U. of Arizona
2012	Tinker Field Research Fellowship, Center for Latin American Studies, U. of Arizona
2012	Research Travel Grant, Institute of the Environment, U. of Arizona
2011	NCAR Scholarship to attend Steven Schneider Symposium on Climate Change Science & Policy, Boulder, CO
2011	Graduate College Fellowship, College of Agriculture and Life Sciences, U. of Arizona
2010	Selected to attend 2-week workshop "Knowledge Integration at the Science-Policy Interface" by Inter-American Institute for Global Environmental Change and the Nat. Center for

Atmospheric Research

## SKILLS & HOBBIES

Lang.	English; Advanced Spanish
Software	Software I use regularly: Matlab; R (working knowledge); Adobe Illustrator & Lightroom; Microsoft Office; ChatGPT; Slack
Hobbies	Cycling, rock climbing, photography, drinking coffee