

CHRISTOPHER A. SCOTT

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<https://ecosystems.psu.edu/research/labs/environmental-policy-goddard-chair-group>

EDUCATION

1994-98 Cornell University, Ph.D. Major Field: Hydrology
1989-91 Cornell University, M.S. Major Field: Hydrology
1981-85 Swarthmore College, B.S. Major Field: Water Resources, B.A.: Asian Studies
1969-81 Woodstock School, Mussoorie, India; attended 1969-72, 1974-81

AREAS OF EXPERTISE AND RESEARCH INTERESTS

- Watersheds, high mountain hydrology, glacier loss
- Water-energy-food nexus, water security, transboundary waters
- Resource conservation and policy, climate adaptation
- Energy transitions, renewables, carbon mitigation
- Resilience, adaptation, social-ecological systems
- Appalachians, Alleghenies, Andes, Himalayas

SUMMARY OF SIGNIFICANT CONTRIBUTIONS

Christopher Scott is an interdisciplinary scholar working on climate resilience, social-ecological systems, water security, and the water-energy-food nexus. His applied research emphasizes the importance of science-policy dialogues with particular attention to ecosystem services, groundwater depletion, water reuse, and transboundary adaptive management. His scholarly work consists of 138 peer-reviewed publications, 17 edited volumes, 68 book chapters, and 67 other publications. He has over 11,000 citations to his work, with an h-index of 53.

Outside the academy, Dr. Scott has worked fifteen years for NGOs, government agencies, and applied-research institutes, contributing to water policy formulation and implementation. He has lived and worked five years in Latin America and six years in India (in addition to his schooling). He speaks Spanish, Portuguese, Hindi, and Nepali, as well as conversational German and Urdu. Television, radio, and print-media coverage of Dr. Scott's work has appeared globally (on BBC, CNN, New York Times, Huffington Post, Guardian, among others) as well as nationally in numerous countries.

His efforts to effect policy impact via dialogue between decision-makers and scientists have gained global acclaim. He was founding co-director of the AQUASEC Center of Excellence for Water Security, a virtual science-diplomacy center and network of researchers and decision-makers that he established in 2011 at the invitation of the Inter-American Institute for Global Change Research (IAI), a treaty organization integrating 19 countries' ministries of science and ministries of foreign affairs.

At Penn State University, his program of applied research, extension, and policy engagement addresses interstate river basins, water quality and agriculture, and energy transitions in the U.S. and globally.

LEADERSHIP

Dr. Scott has over twenty years of experience leading and managing teams, collaborating with diverse partners, and actively leveraging external funds. He has collaboratively raised \$ 31.1 million in competitive funding from NSF, IAI, National Oceanic & Atmospheric Administration, US Agency for International Development, CONACYT-Mexico, Consultative Group for International Agricultural Research, International Development Research Centre, Lloyd's Register Foundation, Ford Foundation, Australian Centre for International Agricultural Research, and German Cooperation Ministry, among others. At the University of Arizona, he raised over \$1 million per year (2006-21, \$15.4 million as PI or Co-PI), leading cross-campus teams in multiple colleges and programs. He directed the Consortium for Arizona-Mexico Arid Environments (CAZMEX). At Penn State University, he serves as Science Director of the Americas Water-Energy-Food Nexus Alliance (2022-present), Associate Director of the Institute of Energy and the Environment (2024-present), and Trustee of the Chesapeake Research Consortium (2024-present).

Dr. Scott served as Chair of the Consensus Study on Drylands Sustainability Partnerships of the U.S. National Academies of Sciences, Engineering and Medicine (NASEM) and the Mexican Academy of Science. He was a 2021-22 Fulbright Scholar, 2020-22 Mountain Chair (International Centre for Integrated Mountain Development), in 2020 was named a Fellow of the International Water Resources Association (IWRA), in 2023 was elected a Fellow of the American Association for Advancement of Science (AAAS), and in 2018-19 was a Fellow of the AAAS Leshner Leadership Institute. He served as International Scientific Committee Chair of the XIV World Water Congress, attended by a thousand participants in 2011 in Brazil. He is a member of numerous scientific associations, has served on the IWRA board, and has provided programmatic reviews for the National Science Foundation, NASEM, Mexican Academy of Science, AAAS, Energize New Mexico (scientific competitiveness program), Consultative Group on International Agricultural Research, World Bank, Swiss Development Cooperation, European donors, and others.

From 2001-05, he was the first India Director of the International Water Management Institute (IWMI), where he established the Krishna River Basin applied water management research program. This led to several notable policy impacts, including the Andhra Pradesh Irrigation Department's decision to allocate water for smallholder farmers on a priority basis, and the Hyderabad urban water utility's investment in treatment capacity for agricultural reuse of effluent. He helped launch the IWMI-Tata Policy Research Program. Promoted as IWMI Director for Asia in 2004, he provided coordination for the CGIAR Challenge Program on Water and Food and the Comprehensive Assessment of Water Management in Agriculture. He initiated and promoted South-South exchange between Indian scientists and the Association for Strengthening Agricultural Research in East and Central Africa. Prior to this, he led the research program for IWMI in Mexico, where, after two years as a post-doctoral scientist, he was promoted to the position of IWMI Mexico Program Leader, collaborating with national and state agencies, irrigation districts, and farmer water-users associations.

TEACHING (*S23 = previously taught 2023 Spring, etc.*)

2025 Spring Environmental Policy, Adaptive Management in Social-Ecological Systems, FOR 597-002

2024 Spring Water-Energy-Food Nexus, FOR 597-002 (S23, S22)

2024 Spring Natural Resource Policy and Administration, FOR 480 (S23, S22)

Taught at University Arizona (*S18 = previously taught 2018 Spring, etc.*)

2020 Summer Water-Energy-Food Nexus, Himalayan University Consortium online course.

2020 Spring Adaptation & Resilience in Water Resource Systems, GEOG 696O (S18, S17, F13, S11)

2019 Spring Water Management & Policy: Water-Energy-Food Nexus, GEOG 596J (S16, F11, S10, F07)

2015 Spring Water Resource Assessment, GEOG 469/569 (S08 as GEOG 467)

2015 Spring Water, Environment, and Society, GEOG 304 (S14, S12, F10, F09, S07)

2015 Spring Arid Lands Current Research, ARL 595A

2008 Fall Adaptive Water Management in Agriculture, GEOG 696J

STUDENT AND POSTDOCTORAL MENTORING

Dr. Scott has served as primary advisor of 11 PhD students and 10 Masters students, with graduate committee membership of an additional 29 PhD students (including 19 internationally) and 13 Masters students. He has supervised 7 postdoctoral scientists and 14 undergraduate research/Honors students. All told, his students and postdocs have been from 21 different countries and U.S. advisees have included numerous Hispanic and Native American students. His advisees have gone on to careers in academia, government agencies, policy institutes, and other non-governmental organizations.

Dr. Scott is convenor of the Environmental Policy Goddard Chair Group, an interdisciplinary “lab” of students and postdocs. In 2007, he established the Water Resources & Policy Group at the University of Arizona, where he provided grant support for 66 student-years of half-time (0.5 FTE) graduate research assistantships, 27 student- summers of research, as well as 6 post-docs and numerous research-staff positions. For full details of his mentoring record, see below.

SERVICE

Dr. Scott has provided service to numerous disciplines and interdisciplinary initiatives and at various levels (department, college, and university) within the academy, which was consistently rated “truly exceptional” by the University of Arizona’s annual performance reviews in the School of Geography, Development & Environment. He is on the editorial boards of numerous journals and has provided peer review for close to 100 separate journals and publishers, plus grant review for U.S. and international funding bodies. He is a Fellow and active member of the American Association for the Advancement of Science (AAAS) and the International Water Resources Association, past Leshner Fellow and Advisor to the competitiveness program of AAAS, and Member of the American Geophysical Union and American Association of Geographers.

At the Penn State ESM department, he serves as Chair, Awards Committee; Member, DEI Committee; Member, P&T Committee; Member, Graduate Program Committee; Member, Strategy Committee; Chair (2023), Invasive Species Biology and Management Search Committee; and Member (2021), Vision and Mission Committee. For the College of Ag. Sciences, he is Member, Global Extension and Innovation Network (GEIN) and LATINX networks. At the Penn State University level, he is Science Director of the Americas Water-Energy-Food Nexus Alliance, Associate Director of the Institute of Energy and the Environment, and Trustee of the Chesapeake Research Consortium. For full details of his service record, see below.

ACADEMIC APPOINTMENTS AND EMPLOYMENT

- 2021 - *Maurice K. Goddard Chair*, Forestry and Environmental Conservation; *Professor*, Dept. of Ecosystem Science & Management; *Associate Director and Co-funded Professor*, Institute of Energy & Environment; *Professor*, Graduate Program on Transdisciplinary Research on Environment & Society; *Science Director*, Americas Water-Energy-Food Nexus Alliance, Pennsylvania State University.
- 2017-21 *Director and Research Professor*, Udall Center for Studies in Public Policy, University of Arizona
- 2014-21 *Professor*, School of Geography & Development; *Director*, Consortium for Arizona-Mexico Arid Environments; *Adjunct/Joint Professor*, Dept. of Hydrology & Atmospheric Sciences; School of Natural Resources and the Environment; Arid Lands Resource Sciences; Dept. Environmental Science; Center for Latin American Studies; American Indian Studies.
- 2010-14 *Associate Research Professor*, Udall Center for Studies in Public Policy; *Associate Professor*, School of Geography & Development, University of Arizona.
- 2006-10 *Assistant Research Professor*, Udall Center for Studies in Public Policy; *Assistant Professor*, School of Geography & Development, University of Arizona.
- 2005-06 *Senior Project Specialist – International Collaboration*, National Oceanic & Atmospheric Administration - National Weather Service, International Activities Office, Silver Spring, MD. Led collaborative projects with Indian Meteorological Department and Central Water Commission, and with Mexican National Water Commission.
- 2001-05 *Principal Researcher; Director for India (Director for Asia 2004-05)*, International Water Management Institute, IWMI (based at International Crops Research Institute for the Semi-Arid Tropics, ICRISAT), Hyderabad, India. Collaborated with Indian Council of Agricultural Research, Sir Ratan Tata Trust, universities, NGOs, CGIAR centers.
- 2000-01 *Senior Researcher* seconded by IWMI to U.S. Agency for International Development, Global Environment Center, Washington, DC. Developed Water-Energy Nexus in Agriculture project in India, collaborated with U.S. Dept. Agriculture, IFPRI, others.
- 1997-2000 *Researcher (Post-doctoral Scientist 1997-99; Mexico Program Leader 1999-2000)*, IWMI (based out of International Maize and Wheat Improvement Center, CIMMYT), Guanajuato, Mexico. Led program on irrigation, watersheds, and agricultural development, collaborating with universities, federal and state agencies, and NGOs.
- 1994-97 *Research Associate*, New York City Watershed Project, Cornell University, Ithaca, NY. Research on dairy farms, collaborated on preventive water quality management with Watershed Agriculture Council, New York State and City agencies, and others.
- 1992-94 *Project Manager - Watersheds*, Catholic Relief Services, Tegucigalpa, Honduras. Implemented watershed conservation, small-scale agriculture, community drinking water supply, and mother-child health and nutrition programs.
- 1991-92 *Research Assistant*, Cornell Irrigation Studies Group, Ithaca, NY. Archived publications, hosted speakers, developed collaborative research grant proposals.
- 1990 *Intern - Watershed Management*, The Ford Foundation, New Delhi, India. Researched rainfed farming, small-scale irrigation, social forestry, crop-livestock systems; collaborated widely.
- 1987-89 *Coordinator - Watersheds & Irrigation*, Seva Mandir (NGO), Udaipur, Rajasthan, India. Coordinated small-scale irrigation, reforestation, and agriculture in tribal areas during 1988 extreme drought. Volunteered with Chipko Andolan (Himalayan conservation movement).
- 1987 *Intern - Appropriate Shelter*, Development Alternatives (NGO), New Delhi, India. Developed earthen building techniques, worked with local masons and builders.
- 1985-87 *Assistant Analyst - FEMA Flood Insurance Program*, Baker Engineers, Alexandria, VA. Watershed analysis for Federal Emergency Management Agency flood mapping.

HONORS, AWARDS, AND DISTINCTIONS

2023	Fellow, Member, American Association for the Advancement of Science
2021-22	Fulbright Scholar, Argentina (Water-energy-food nexus in Andean river basins)
2021	Best paper in <i>Water International</i> , Scott et al. (2018). <i>Water security and the pursuit of food, energy, and earth systems resilience</i> , https://doi.org/10.1080/02508060.2018.1534564 .
2020	Fellow, Member, International Water Resources Association
2020-22	Mountain Chair, International Centre for Integrated Mountain Development
2019-22	Chair, Consensus Study on Sustainability Partnerships in U.S.-Mexico Drylands Region, U.S. National Academies of Science, Engineering & Medicine; Mex. Academy of Science
2018-19	Fellow, Leshner Public Engagement Inst., American Assoc. for Advancement of Science
2017-18	Fellow, Academic Leadership Institute, University of Arizona
2013	1885 Society Distinguished Scholar, University of Arizona
2012-13	Environmental Policy Fellow, Udall Center for Studies in Public Policy, and Inst. of Environment, Univ. Arizona (teaching release, Fall 2012; sabbatical, Spring 2013)
2012	International Research Development Grant, Univ. Arizona, for strengthening collaboration with partners in India (IWMI, NGOs, World Bank, Jindal University)
2012	Faculty Research Development Grant, Univ. Arizona, for AQUASEC partnership with multiple research programs at Univ. Mayor San Simón, Cochabamba, Bolivia
2012	Riparian-resilience research that I led featured as the first article in <u>Bold Ideas: Research at the University of Arizona</u> , Office of the Vice President for Research
2012	Past-employer, International Water Management Institute (IWMI), awarded Stockholm Water Prize for research on water reuse that I initiated
2011	Past-employer, IWMI, awarded IWRA Crystal Drop Award
2010	Faculty Research Development Grant, Univ. Arizona, for collaboration in Ethiopia
2004	Outstanding paper at IWMI – Scott et al. (2013). Mapping root zone soil moisture using remotely sensed optical imagery, https://doi.org/10.1061/(ASCE)0733-9437(2003)129:5(326)
2000-04	Next Generation Water Leader, Stockholm International Water Institute and IWRA
1991	Gamma Sigma Delta (Honor Society of Agriculture), Cornell University
1989-91	Foreign Language & Area Studies Fellowship (Nepali language), Cornell University
1985	Graduated with Distinction, Swarthmore College
1981	Graduated Salutatorian, Woodstock School

LANGUAGES

Full professional proficiency

- Spanish
- Hindi

Professional proficiency

- Portuguese
- Nepali

Limited working proficiency

- Urdu
- German

GRANTS AND CONTRACTS – Summary

PI= principal investigator; Jt-= joint-; PM= project manager; GRA= grad. research asst., major grants; Adv.= advisor.

Dates	Project	Sponsor	Award (\$)	Title
2024	Climate change impacts on mountain water towers: Himalayas (IISc-DCCC) and Alleghenies (PSU-ESM)	PSU Global	2,500	PI
2023-25	Water-Energy-Food Nexus PhD Cohort	PSU AgSciences	511,770	PI
2019-22	Mountain Chair	ICIMOD	39,200	PI
2014-20	Consortium for Arizona – Mexico Arid Environments	CONACYT, Haury Program	2,800,000	PI/ Director
2017-20	Udall Foundation Environmental Policy Programs Workplan	Udall Foundation	1,446,488	PI
2015-16	Irrigation-Hydropower Nexus in the Ganges Headwaters (HI-NEX)	CGIAR-WLE (IWMI)	260,970	PI
2015-18	Pathways to Climate Resilient Irrigated Agriculture (B. Thapa doctoral training grant)	ICIMOD	104,803	PI
2016-17	Nepal's Hydropower Boom and Implications for Food Security (A. Crotoof doctoral fellowship grant)	Borlaug Foundation	20,000	PI
2014-16	Transdisciplinary Teamwork... (L. House-Peters, PhD award)	Inter-Amer. Inst. (IAI)	20,000	PI
2013-17	Strengthening Resilience of Andean River-Basin Headwaters	NSF CNH supplement	66,447	PI
2012-15	Towards an Integrated Assessment of Water Security	IAI	304,000	Jt-PI
2012-17	Innovative Science and Influential Policy Dialogues	IAI	800,000	Jt-PI
2012-13	Adaptive Water-Energy Management in the Arid Americas	NSF OISE PASI	100,000	PI
2010-15	Strengthening Resilience of Arid Region Riparian Corridors	NSF CNH	1,400,000	PI
2010-11	Phase 2- Information Flows and Policy: Climate Diagnostics	IAI	119,300	PI
2010-11	XIV World Water Congress	IDRC-Canada & UA	42,500	PI
2009-10	Database: Transboundary San Pedro Valley Aquifer	USGS	10,000	PI
2008-11	Water Reuse to Offset Growth-Driven Water Scarcity	WaterReuse Foundn.	74,789	PI
2008-09	Water and Energy Sustainability	Arizona Water Inst.	50,000	PI
2007-10	Rural and Environmental Water Gradients	IWMI	51,000	PI
2007-08	Geospatial Analysis of Urban Thermal Gradients	USGS	12,000	PI
2007-08	Coupled Water and Energy Demand	Arizona Water Inst.	10,000	PI
2004-05	Health & Food Safety, Expanding Wastewater Irrigation	BMZ-Germany	1,050,000	PI
2004-05	Agricultural Water Productivity in the Krishna Basin	ACIAR-Australia	960,000	PI
2002-05	Water-Energy Nexus in Agriculture	USAID	730,000	PI
2002-04	Livestock-Environment-Watershed Interactions	Switzerland & FAO	290,000	PI
2005-06	India Climate Forecast Systems	USAID	560,000	PM
2005-06	Mexico River Forecasting	CONAGUA Mexico	360,000	PM
2005-06	Romania Destructive Waters Abatement	Romania Envir. Min.	720,000	PM
1997-00	Irrigation Management	Ford Foundation	1,500,000	PM
1992-94	Lempira Drinking Water & Public Health	Caritas-Norway	300,000	PM
2024-26	Augmenting Climate Transition across the Atlantic Transect (ACT-AT): Extension-driven solutions to implementing socially responsible, high-integrity forest carbon offsets	PSU Climate Consortium	124,896 +30,000	Co-PI
2024	Forest carbon assessment and management across scales: using improved forest management for climate resilience and mitigation	PSU Climate Consortium	20,000 +20,000	Co-PI

2022-27	US-Africa Sustainable Food Systems through Water-Energy- Food Nexus Networking - SustainFood.	NSF AccelNet	2,000,000	CoPI
2022-24	Americas WEF Nexus Alliance	PSU Global	400,000	Co-PI
2021-22	Solar Irrigation India	PSU IEE	20,000	Co-PI
2018-19	Evaluation of Transboundary Impacts of Sanitation Infrastructure Projects in Ambos Nogales	NADBank, COLEF	25,000	Co-PI
2017, 14	Restoring Sacred Rivers after Dam Removal - White Salmon	Udall Ctr, Inst. Env.,UA	19,996	Co-PI
2013-14	Center on Food Systems, Water Conserv., Food Security	U. Arizona WEES	25,000	Co-PI
2013-15	Strengthening Resilience of Andean River-Basin Headwaters	USAID/NAS PEER	179,474	Co-PI
2013-18	Lloyd's Register Foundation Int'l Water Security Network	LRF	1,120,883	Co-PI
2013-18	IRAP: Integrating Climate Info. for Regional Climate Resilience	NOAA	3,173,026	Co-PI
2011-12	W'shop Infrastructure Sustainability, Resilience, Robustness	NSF RESIN	49,659	Co-PI
2010-13	Arid Cities in Changing Climates	Bureau Reclam., UA	168,810	Co-PI
2010-11	Phase 2- Transboundary Aquifer Assessment Program	USGS	166,667	Co-PI
2009-12	Water, Environment and Urban Development	Partner Univ. Fund	117,000	Co-PI
2008-13	Optimization of Dual Conjunctive Water Supply and Reuse	NSF RESIN	1,999,558	Co-PI
2008-13	Supplement to "Optimization of Dual Conjunctive"	NSF RESIN	30,725	Co-PI
2008-10	Moving Forward: Adaptation to Climate Change	NOAA	286,931	Co-PI
2008-09	Phase 1- Transboundary Aquifer Assessment Program	USGS	166,667	Co-PI
2007-09	Phase 1- Information Flows and Policy: Climate Diagnostics	IAI	147,286	Co-PI
2004-05	Urban & Peri-Urban Agriculture, South Asia	Netherlands, IDRC	850,000	Co-PI
2004-05	Linking Forest & Irrigation Management in the Himalayas	CGIAR	300,000	Co-PI
2002-03	Pro-poor Irrigation Interventions	Asian Devt. Bank	110,000	Co-PI
2001-05	IWMI-Tata Policy Research Program	Sir Ratan Tata Trust	1,100,000	Co-PI
2021-22	Adoption of Solar pumps in India	Inst. Energy & Envir. PSU	30,000	I
2018-22	RCN Resilience of Headwater Systems Across the Americas	NSF CNH	499,915	I
2017-19	Forecasting future operating environments: bridging biodiversity conservation, public health and security	UA VPR	579,796	I
1994-97	Transport of Cryptosporidium Parvum Oocysts	USDA	184,000	GRA
2014-16	Advancing Good Practices in Building Interdisciplinarity	IAI	125,000	Adv.
2013-15	Análisis Integral de Vulnerabilidad, Recursos Hídricos	IDRC-Canada	1,500,000	Adv.
2012-13	Training Institute: Adaptive Water Mgmt. (Coordinator for IAI)	IAI, NSF, Flemish Aid	185,000	Adv.
2010-11	Brazil's funding to XIV World Water Congress	Brasil CNPq, CTHidro	200,000	Adv.
2003-05	India's support to IWMI via CGIAR (increased funding only)	ICAR & Min. Finance	330,000	Adv.
1987-89	Watersheds & Irrigation (Seva Mandir grant-writing support)	Ford Fnd., ICCO-Neth.	110,000	Adv.

TOTAL \$ 31,111,056
Subtotal as PI, PD or Co-PI \$ 27,367,345

Federal Grants and Contracts (*details for summary table, above; % = C. Scott's share of award*)

2022-27 AccelNet-Implementation: US-Africa Sustainable Food Systems through Water-Energy-Food Nexus Networking - SustainFood. \$2,000,000, National Science Foundation, AccelNet (Co-PI, 5%, M. Jacobson, PSU, PI; Michigan State U., Stockholm Environment Institute, collaborating institutions).

- 2021-26 Transforming Rural-Urban Systems: Trajectories for Sustainability in the Intermountain West Research Network (Advisor, invited to participate as Investigator, 0%). \$15,000,000, National Science Foundation, Sustainable Regional Systems Research Networks (U. New Mexico, U. Arizona, lead institutions).
- 2017-21 Environmental Policy Programs, Udall Center for Studies in Public Policy (PI, 75%). \$1,446,488, Udall Foundation.
- 2018-22 RCN Resilience of Headwater Systems Across the Americas (Investigator, 0%). \$499,915, National Science Foundation, Coupled Natural-Humans Systems (U. Washington, U. New Mexico, lead institutions).
- 2013-16 Strengthening Resilience of Andean River-Basin Headwaters Facing Global Change (C.A. Scott, U.S. Partner, 0%; B.L. Willems, PI, Universidad Nacional Mayor San Marcos, Peru). \$179,474, National Academy of Sciences – USAID Partnerships for Enhanced Engagement in Research, PEER.
- 2013-18 IRAP Integrating Climate Information and Decision Processes for Regional Climate Resilience (Co-PI, 5%). \$3,173,026 (UA component, subcontract under Columbia University), National Oceanic & Atmospheric Administration, Climate and Societal Interactions, International Research and Applications Program.
- 2012-13 PASI: Adaptive Water-Energy Management in the Arid Americas (PI, 100%). \$100,000, National Science Foundation, Office of International Science & Engineering, Pan-American Advanced Studies Institutes.
- 2010-17 Strengthening Resilience of Arid Region Riparian Corridors: Ecohydrology & Decision-Making in the Sonora and San Pedro Watersheds (PI, 20%). \$1,400,000 + \$66,447 supplement.
- 2010-12 Arid Cities in Changing Climates: Urban Land and Water Use in the Desert Southwest (Co-PI, 25%). \$138,837, Dept. Interior, Bureau of Reclamation WaterSMART; + \$29,973, Univ. Arizona Water Sustainability Program.
- 2011-12 Workshop on Infrastructure Sustainability, Resilience, and Robustness (Co-PI, 33%). \$49,659, National Science Foundation, Resilient and Sustainable Infrastructures.
- 2009-10 Database Creation: Transboundary San Pedro Valley Aquifer (PI, 100%). \$10,000, United States Geological Survey 104B administered by University of Arizona Water Resources Research Center.
- 2008-13 Optimization of Dual Conjunctive Water Supply and Reuse Systems with Distributed Treatment for High-Growth Water-Scarce Regions (Co-PI, 20%). \$1,999,558 (+ \$30,725 supplement), National Science Foundation, Resilient and Sustainable Infrastructures.
- 2008-10 Moving Forward: Adaptation and Resilience to Climate Change, Drought, and Water Demand in the Urbanizing Southwestern U.S. & Northern Mexico (Co-PI, 33%). \$286,931, National Oceanic & Atmospheric Administration, Sectoral Applications Research Program (SARP).
- 2008 - Transboundary Aquifer Assessment Program – TAAP (Co-PI, 50%). \$333,333, United States Geological Survey.
- 2007-08 Geospatial Analysis of Urban Thermal Gradients: Application to Tucson Arizona’s Projected Water Demand (PI, 33%). \$12,000, U.S. Geological Survey 104B, from U.A. Water Resources Research Center.
- 2005-06 India Climate Forecast Systems – Component of the Disaster Management Support Project (PM, 50%). \$0.56 million, U.S. Agency for International Development.
- 2002-05 Water-Energy Nexus in Agriculture (PI, 50%). \$0.73 million subcontract under P.A. Consulting, \$6 million 2-phase (GSA), U.S. Agency for International Development.
- 1994-97 Role of Subsurface Drainage in Transport of Cryptosporidium Parvum Oocysts (Ph.D. research on this, aided PI Tammo Steenhuis to fund grant), \$0.184 million, US Dept. Ag.

International/Multilateral

- 2019-22 Mountain Chair, International Centre for Integrated Mountain Development (PI, 10%). \$30,000 (\$16,000 as Mountain Chair + \$14,000 Energy Access Ecosystem study + \$9,200 Switzerland Mountain Research Initiative)
- 2014-21 Consortium for Arizona – Mexico Arid Environments (Director, 0%). \$2,800,000, CONACYT (Mexican National Council for Science and Technology), Agnese Nelms Haury Program in Environment & Social Justice, Brown Foundation, and University of Arizona.
- 2018-19 Evaluation of Transboundary Impacts of Sanitation Infrastructure Projects in Ambos Nogales (Co-PI, 10%). \$25,000, N. American Development Bank, Colegio Frontera Norte.
- 2015-18 Pathways to Climate Resilient Irrigated Agriculture. Bhuwan Thapa PhD grant (PI, 29%). \$104,803, International Center for Integrated Mountain Development.
- 2015-16 Irrigation-Hydropower Nexus in the Ganges Headwaters (PI, 50%). \$260,970, Consultative Group for International Agric. Research - Water, Land, and Ecosystems, grant administered by International Water Management Institute.
- 2014-16 Advancing Good Practices in Building Interdisciplinarity: Moving Towards User-Oriented Science (Advisor, 0%; M. Saguier, A. Gerlak, Joint-PIs). \$125,000, Inter-American Institute for Global Change Research.
- 2013-15 Análisis Integral de la Vulnerabilidad de Recursos Hídricos y Desarrollo de un Proceso de Adaptación al Cambio Climático en la Cuenca del Maipo (*Integrated Analysis of Water-Resources Vulnerability and Development of Climate-Change Adaptation Process in the Maipo Basin*) (Advisor, 1%; S. Vicuña, PI, Pontificia Universidad Católica – Chile). CAD\$ 1,500,000. International Development Research Centre – Canada.
- 2012-18 Innovative Science and Influential Policy Dialogues for Water Security in the Arid Americas (Lead-PI, 20%; F. Meza, Joint-PI, Pontificia Universidad Católica – Chile). \$800,000, Inter-American Institute for Global Change Research.
- 2012-14 Towards an Integrated Assessment of Water Security Under Global Change in the Americas (Lead-PI, 50% F. Meza, Joint-PI, Pontificia Universidad Católica – Chile). \$304,000, Inter-American Institute for Global Change Research.
- 2010-11 Phase 2 - Information Flows and Policy: Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water-Resources Management Under Climatic Uncertainty in Western North America (PI, 50%). \$119,300, Inter-American Institute.
- 2010-11 XIV World Water Congress (Chair, International Scientific Committee). \$41,000, International Development Research Centre (for developing country participant support to attend Congress), plus \$1,500 from Univ. Arizona, Water Sustainability Program for student support to attend Congress.
- 2010-11 Eau et Etalement Urbain (Water and Urban Sprawl) (Investigator, 10%). € 25,000. Centre National de Recherche Scientifique (France), Cities and Environment Program.
- 2009-11 Water, Environment and Urban Development: United States and European Union Case Studies (Co-PI, 10%). \$240,000. Partner University Fund (France – U.S.).
- 2007-10 Rural and Environmental Water Gradients under Rapid Urban Expansion in Water-Scarce Basins (PI, 100%). \$30,000 (2009), \$4,000 (2008), \$17,000 (2007), International Water Management Institute.
- 2007-09 Information Flows and Policy: Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water-Resources Management Under Climatic Uncertainty in Western North America (deputy-PI, 50%). \$147,286, Inter-American Institute for Global Change Research.
- 2005-06 Mexico River Forecasting (PM, 50%) \$0.36 million, Comisión Nacional del Agua, Gerencia de Aguas Superficiales e Ingeniería de Rios.
- 2005-06 Romania Destructive Waters Abatement and Management (co-PM, 50%). \$0.72 million, Romanian Ministry of Environment & Water Management.

- 2004-05 Health & Food Safety from Expanding Wastewater Irrigation, South Asia (PI, 20%). \$1.05 million competitive grant from German Cooperation Ministry (BMZ).
- 2004-05 Urban & Peri-Urban Agriculture, South Asia (co-PI, 10%). \$0.85 million, Netherlands Cooperation Dept. (DGIS) and Canadian International Development Research Centre.
- 2004-05 Agricultural Water Productivity in the Krishna Basin (PI, 33%). \$0.96 million, Australian Centre for International Agricultural Research.
- 2004-05 Linking Forest and Irrigation Management in the Himalayas (co-PI, 33%). \$0.3 million, Consultative Group on International Agr. Research, Challenge Program - Water and Food.
- 2002-04 Livestock-Environment-Watershed Interactions (PI, 50%). \$0.29 million, Swiss Development Cooperation and U.N. Food and Agriculture Organization.
- 2002-03 Pro-poor Irrigation Interventions (PI, 100%). \$0.11 million India component of \$1 million larger project, Asian Development Bank.

State

- 2024 Climate change impacts on mountain water towers: Himalayas (IISc-DCCC) and Alleghenies (PSU-ESM) (PI, 100%), \$2,500, Penn State Global.
- 2024-26 Augmenting Climate Transition across the Atlantic Transect (ACT-AT): Extension-driven solutions to implementing socially responsible, high-integrity forest carbon offsets (Co-PI, 25%), \$124,896, Penn State Climate Consortium Accelerator II + \$30,000 match.
- 2024 Forest carbon assessment and management across scales: using improved forest management for climate resilience and mitigation (Co-PI, 25%), \$20,000, Penn State Climate Consortium Accelerator I Workshop + \$20,000 match.
- 2023-25 Water-Energy-Food Nexus PhD Cohort (PI, 20%), \$511,770, Penn State University, College of Ag. Sciences.
- 2021-22 Analyzing the adoption of solar irrigation pumps in India within the food-energy-water nexus: implications for climate change and groundwater depletion (Investigator, 0%; D. Brent, PI), \$30,000, Penn State Institute of Energy & Environment.
- 2017-19 Forecasting future operating environments: bridging biodiversity conservation, public health and security (Investigator, 0%; L. López-Hoffman, PI), \$579,796, University of Arizona Office of Research, Discovery and Innovation.
- 2014-15 Freeing the White Salmon River: Dam Removal, Climate Change, Fish, and Rafting on a Tribal Sacred River (Co-PI, 50%). \$9,996, University of Arizona, Institute of Environment.
- 2013-14 Center for Food Systems, Social Engagement for Water Conservation and Food Security (D. Taren, PI; M. Hingle, G. Nabhan, S. Marston, C.A. Scott, Co-PIs, 20%). \$25,000, Univ. Arizona - Water, Environmental and Energy Solutions.
- 2008-09 Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region (PI, 50%). \$50,000, Arizona Water Institute.
- 2007-08 Coupled Water-Energy Demand in Arizona-Sonora Border Region: Groundwater Pumping, Municipal Water Services, Electrical Power Interactions (PI, 50%). \$10,000, AZ Water Inst

Private Foundations

- 2016-17 Indigenous Cultural and Ecological Flows: Restoring Sacred Rivers after Dam Removal (PI, 50%). \$10,000, Morris K. Udall and Stewart L. Udall Foundation, via Udall Center.
- 2013-20 The Lloyd's Register Foundation International Water Security Network (Co-PI, £735,439 UA component, 29%; R. Varady, UA lead Co-PI; C. Staddon, PI, University of West of England). £2,538,205 total value of project, Lloyd's Register Foundation.
- 2009-10 Water Reuse to Offset Growth-Driven Water Scarcity in the Southwest: From Supply Augmentation to Substitution (PI, 33%). \$74,789, WateReuse Foundation.
- 2001-05 IWMI-Tata Partnership (co-PI, 10%). \$1.1 million, Sir Ratan Tata Trust.
- 1997-2000 Irrigation Management, Mexico (PM, 33%). \$1.5 million, Ford Foundation.

PUBLICATIONS – Refereed Journal Articles

- Scott, C.A.** 2024. Land subsidence in the Mid-Atlantic United States: Creeping disaster threatens water, energy, and climate security. Special issue “Groundwater and land subsidence: a chronic water security challenge,” *Water Security* 23, 100183, <https://doi.org/10.1016/j.wasec.2024.100183>.
- Patel, P.M., **C.A. Scott**, D.A. Brent. 2024. Four birds with one stone? Opportunities and challenges in adopting solar irrigation for a sustainable water-energy-food nexus with carbon credits. *Water International*, 1-24, <https://doi.org/10.1080/02508060.2024.2345494>.
- Scott, C.A.**, C. Macías García, N. Martínez-Tagüña, T.F. Thornton, H. Kreidler. 2024. A binational journey toward sustainability: How a unique collaboration between the US and Mexican academies of science evolved over the course of a decade. *Issues in Science and Technology*, XL, 4, Summer 2024: 49-52, <https://issues.org/nasem-amc-binational-journey-sustainability/>.
- Drenkhan, F., C. Huggel, N. Hoyos, **C.A. Scott**. 2023. Hydrology, water resources availability and management in the Andes under climate change and human impacts. *Journal of Hydrology: Regional Studies*, 49: 101519, <https://doi.org/10.1016/j.ejrh.2023.101519>.
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- Garcia, R., A. Zuniga, L. Cervera, **C.A. Scott**, S. Peña, T. Balarezo, S. Buechler, J. Muñan, K. Martinez. 2023. Evaluación del proyecto de saneamiento transfronterizo en Ambos Nogales. Identificación de lo homogéneo y lo diverso. *Estudios Fronterizos*. 24: e122. <https://doi.org/10.21670/ref.2311122>. *Cross-border sanitation project evaluation in Ambos Nogales. Identifying the homogeneous from the diverse.* <https://ref.uabc.mx/ojs/index.php/ref/article/view/1128>.
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- Díaz Caravantes, R.E., J.R. Romo León, R. Méndez Estrella, **C.A. Scott**. 2022. Land use and land cover changes resulting from the urban El Molinito reservoir in the drying Sonoran River Basin. *Urban Water Journal*, <https://doi.org/10.1080/1573062X.2022.2099291>.
- Scott, C.A.**, M.I. Zilio, T. Harmon, A. Zuniga-Teran, R. Díaz-Caravantes, N. Hoyos, G.M.E. Perillo, F. Meza, R.G. Varady, A. Ribeiro Neto, M.I. Velez, F. Martín, J. Escobar, M.C. Piccolo, P. Mussetta, S. Montenegro. J. Rusak, N. Pineda. 2021. Do ecosystem insecurity and social vulnerability lead to failure of water security? *Environmental Development* 38 (2021): 100606, <https://doi.org/10.1016/j.envdev.2020.100606>.
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PUBLICATIONS – Work in Progress

- Viviroli, D., F. Drenkhan, **C.A. Scott**, L. Somers, M. van Tiel. In review. Downstream impacts of climate change in the world's water towers. *Nature Climate Change*.
- Djenontin, I., B. Daher, K. Adule, J.W. Johnson, P. Kekirunga, B. Kindishe, V. King, E. Mullaney, P. Nimushaba, S. Ulloa, M. Jacobson, A. Huber-Lee, E. Kayendeke, A. Konak, V. Morrone, E. Obonyo, L. Schmitt-Olabisi, L.N. Sanya, **C.A. Scott**. In review. Coproducing Water-Energy-Food Nexus Actionable Knowledge: Lessons from a Multi-Actor Collaborative Learning School in Uganda, East Africa. *Environmental Science and Policy*.
- Rojas, C., M. Otalora, J. Riascos-Ochoa, M. Longo, **C.A. Scott**. In review. Enhancing Local Participation in Ecosystem Service Multifunctionality Via Agent-Based Modeling in the Coello River Basin, Colombia, *Ecosystem Services*.
- Ahmed, S., **C.A. Scott**. In preparation. Climate services for farm-related decision-making in coastal Bangladesh: What can be done to minimize usability gaps? *Climate Risk Management*.
- Lutz-Ley, A., **C.A. Scott**. In preparation. Advancing adaptive governance through analysis and application of institutional mismatches: The case of the San Miguel Watershed in rural northwest Mexico. *Global Environmental Change*.

SELECTED SCHOLARLY PRESENTATIONS AND ACTIVITIES IN PROFESSIONAL MEETINGS (+ = invited)

Guest Lectures

- 2024 + Water resources policy, *IB 497 – International Business and Sustainability*, Penn State University, October 24, 2024.
- 2024 + Climate change and global food security, *INTAG 490 - Senior Seminar in International Agriculture*, Penn State University, October 22, 2024.
- 2024 + Energy and water landscapes: Lithium Valley and the Salton Sea (via Zoom), *Public Policy 155 - Energy, Clean Innovation & Sustainability*, Stanford University, February 13, 2024.
- 2023 Transdisciplinary research and engagement (invited and moderated training for Penn State graduate students and faculty with online speakers from the Inter-American Institute for Global Change Research -

- IAI), SNIP Cohort, College of Ag. Sciences, Penn State University, November 17, 2023.
- 2023 + El nexo agua-energía-alimentos – Antecedentes y futuro del marco analítico WEF Nexus (*via Zoom*), *Maestría en Gestión Integrada del Agua*, Colegio de la Frontera Norte, Cd. Juárez, Mexico, November 15, 2023.
- 2023 + The irrigation efficiency paradox. *INTAD 570 - International Agricultural Development*, Penn State University, October 13, 2023.
- 2023 + Transdisciplinary engagement for water security through science-policy dialogues. *TREES 590 - Transdisciplinary Research on Environment and Society*, TREES 590, Penn State University, October 6, 2023.
- 2023 + Carbon and the water-energy-food nexus: Future outlook for integrated resource management. *AEPS 502 - Issues in Agricultural Innovation*, Penn State University, September 25, 2023.
- 2023 + Policy process and innovation by water-energy-food nexus networks: North America, Latin America, Africa applications, *Public Policy 155 - Energy, Clean Innovation e³ Sustainability*, Stanford University, May 9, 2023.
- 2023 + El Nexo Agua-Energía-Alimentos – Antecedentes y Futuro del Marco Analítico WEF Nexus (*via Zoom*), Universidad Javeriana, Bogotá, Colombia, 19 April 2023.
- 2022 + Water-energy-food nexus: Himalayan hydropower tradeoffs for resource security with carbon neutrality, Sikkim University, India, November 2, 2022.
- 2022 + El Nexo Agua-Energía-Alimentos: Marco Conceptual o Método Aplicado para Resiliencia Climática? *Filosofía y Letras*, Universidad Nacional de Cuyo, Argentina, June 10, 2022.
- 2022 + Agricultural intensification: the water challenge. *INTAD 570 - International Agricultural Development*, Penn State University, Sept. 21, 2022.
- 2022 + El Nexo Agua-Energía-Alimentos: Desarrollo Sostenible con Resiliencia de Ecosistemas Andinos, *Seminario - Funciones y procesos ambientales*, Doctorado de Ciencias Ambientales y Sostenibilidad, UTadeo, Colombia, May 22, 2022.
- 2021 + Irrigation efficiency – once paradigm now paradox: Rethinking ‘savings’ and ‘waste,’ *INTAD 570 - International Agricultural Development*, Penn State University, Sept. 22, 2021.
- 2020 + Regional energy cooperation in South Asia: Can the water-energy-food nexus offer lessons for transboundary water governance? (*via Zoom*), *Natural Resources and Energy Policy: Theories and Practice*, Colorado School of Mines, October 21, 2020.
- 2020 Virtual public seminar on sustainability partnerships in the U.S. – Mexico drylands region (*co-organizer and speaker, via Zoom*), U.S. National Academies of Science, Engineering and Medicine, and Mexican National Academy of Sciences, July 15, 2020.
- 2019 + Food-energy-water nexus: Opportunities and limits of integrationist frameworks (*via Zoom*), *Postgraduate Winter School*, University of West of England, Bristol, UK, January 14, 2019.
- 2018 + Nexus thinking, nexus tools, nexus solutions: Origins and prospects for food-energy-water systems, *Indigenous Food, Energy, Water Systems and Security (Indige-FEWSS) Graduate Seminar*, University of Arizona, September 12, 2018.
- 2017 *Evidence for Indigenous Nation Building* (as student in short course, LAW 631K), Indigenous People’s Law & Policy Program, University of Arizona, January 12-14, 2017.
- 2013 + Water for energy, energy for water, *Natural and human impacts on arid lands* (ARL 641), University of Arizona, November 21, 2013.

- 2012 + Climate-water adaptation in the Arid Americas, *Special topics in contemporary Latin America* (LAS 562), University of Arizona, September 20, 2012.
- 2012 + Water-energy nexus: law and policy, *Sustainability (LAW, ANTH, ECOL, PA603J)*, University of Arizona, April 4, 2012.
- 2012 + Nexo entre agua, energía y clima: el futuro de los acuíferos en México con implicancias para Chile (*Water-energy-climate nexus: the outlook for aquifers in Mexico with implications for Chile*), Gestión del agua en Chile, una mirada a la institucionalidad vigente (*Water management in Chile: a view towards current institutional arrangements*), Universidad de Chile - Santiago, March 16, 2012.
- 2012 + Chipko: ecology, livelihoods, and spirituality in the Indian Himalayas, *Environmental Studies* 260, University of Arizona, February 6, 2012.
- 2011 + Water resources and institutions in arid lands (series of four lecture/discussion sessions), *The arid and semiarid lands (ARL 564)*, University of Arizona, April 4, 6, 11, 13, 2011.
- 2010 + Adaptive water management in the context of urban growth and climate change, *Graduate Planning Society*, University of Arizona, October 15, 2010.
- 2010 + Science, policy, and non-governmental organizations, *Making the Connection between Science and Decision Making (GEOG 696J) seminar*, University of Arizona, September 29, 2010.
- 2010 + Water and place: the Santa Cruz River (guest lecture and field trip on Tucson's water resources and Santa Cruz River, *Place and Context: Social-Scientific Perspectives on Community (INDV102H) honors undergraduate seminar*, University of Arizona, September 7 & 14, 2010.
- 2010 + Arizona – Sonora transboundary aquifer assessment, *University of Arizona Maricopa County Cooperative Extension*, May 27, 2010.
- 2009 + U.S. – Mexico Border Water Policy: The Transboundary Aquifer Assessment Program Case, *Arizona Water Policy (SWES 596B) seminar*, University of Arizona, March 6, 2009.
- 2007 + Irrigated area mapping in heterogeneous landscapes with MODIS time series, ground truth and census data, Krishna Basin, India. *Remote Sensing for the Study of Planet Earth (OPTI 590) seminar*, University of Arizona, April 26, 2007.
- 2007 + Conjunctive management of surface and groundwater. *Arizona Water Policy (SWES 596B) seminar*, University of Arizona, January 19, 2007.
- 2006 + Mapping root zone soil moisture using remotely sensed optical imagery. *Physical Geography (GEOG 696C) seminar*, University of Arizona, September 21, 2006.

Keynotes/Plenary Addresses

- 2024 Welcome and Goddard Forum overview: Visioning Climate-Smart Forestry in the Mid-Atlantic Region, Goddard Forum, State College, Pennsylvania, October 16, 2024.
- 2024 + Climate adaptation for resilient mountain water towers: Insights and opportunities in the Appalachians and Andes, *Divecha Centre for Climate Change*, Indian Institute of Science, Bengaluru, India, August 23, 2024.
- 2024 Plenary address: Water-energy-food nexus for global network science and impact. Networking of Nexus Networks Workshop, Smithsonian Environmental Research Center, Edgewater, Maryland, June 14, 2024.
- 2023 + Plenary address (in Spanish): La Alianza WEF Nexus - fortaleciendo colaboración científica,

impacto socio-ambiental y resiliencia climática (*The WEF Nexus Alliance – strengthening scientific collaboration, social-environmental impact, and climate resilience*). XI Simposio Internacional sobre la Calidad de la Energía – SICEL 2023, Universidad Nacional de Colombia, La Paz (Cesar), Colombia, 1-3 November 2023.

- 2023 + Plenary address: The local conflict – binational cooperation paradox in US-Mexico water relations, Mexico + H₂O: Challenges, Reckonings, and Opportunities, David Rockefeller Center for Latin American Studies, Harvard University, March 23-24, 2023.
- 2022 + Keynote address (in Spanish, via Zoom): Nexo agua-energía-alimentos – Un compromiso para la sostenibilidad (*Water-energy-food nexus – A commitment to sustainability*). IV International Congress: Environmental Engineering in the XXI Century, Cudinamarca, Colombia, Nov. 3, 2022.
- 2020 + Keynote address (in Portuguese, via Zoom): Segurança hídrica em regiões semiáridas: enfrentamento da insegurança dos ecossistemas e da vulnerabilidade social (Water security in semi arid regions: Addressing ecosystem insecurity and social vulnerability), *XV Simpósio de Recursos Hídricos do Nordeste*, Caruaru, Pernambuco, Brazil, November 23-25, 2020.
- 2016 + Keynote address: Water security in the face of climate change and economic globalization. *International Forum on the Future of Water*, Argentine Ministry of Science, Technology and Productive Innovation and University of San Martin, Buenos Aires, October 18-21, 2016.
- 2016 + Keynote address: Forward to the past or back to the future? Water security under electricity failure in urban Nepal, *Columbia University Ideation Lab*, via teleconference, April 8, 2016.
- 2015 + Keynote address: Water-energy-food nexus - vicious or virtuous cycle? *Fulbright – Water-Energy-Food Nexus Regional Workshop*, Fulbright South Asia Commission and International Center for Integrated Mountain Development, Kathmandu, Nepal, February 10-12, 2015. http://lib.icimod.org/record/30999/files/Fulbright%20Alumni%20Workshop_1%20Sep%202015_WEB.pdf
- 2013 + Keynote address: The water-energy-food nexus: Adaptive capacity to complex global challenges. Position paper presented at Workshop on Nexus of Water, Soil and Waste, United Nations University, Dresden, Germany, November 11-12, 2013.
- 2013 + Keynote address: Perspectivas y escenarios de uso de agua en zonas áridas. Ofertas conocidas y demandas previstas (Perspectives and scenarios for water use in arid regions under variable supply and increasing demand), *Primer Encuentro Internacional - Agua, Productividad y Desarrollo Económico (First International Symposium – Water, Productivity, and Economic Development)*, Mendoza, Argentina, June 5-6, 2013.
- 2010 + Keynote address: Gestão adaptativa de água em mudança de clima: EUA-México experiência transfronteiriça, *Northeast Water Resources Symposium*, Fortaleza, Brazil, November 16-20, 2010.
- 2008 + Keynote: The global water and sanitation challenge: progress in meeting the Millennium Development Goals. *Focusing Arizona's Water Research (Arizona Water & Pollution Control Association, Arizona Water Institute)*, Phoenix, Oct. 29, 2008.
- 2005 + Keynote address: Soil and water quality under wastewater irrigation, *International Soil Science Society Conference*, New Delhi, India, January 28, 2005.

Lectures

- 2024 + Re-adapting existing infrastructure to operate beyond its design conditions: The case of hydropower under climate change and uncertain future energy demands, *Dept. of Civil and Environmental Engineering*, Univ. Adolfo Ibáñez, Peñalolén, Santiago, Chile, Nov. 18, 2024.

- 2024 + Can glacier-fed rivers meet downstream water needs under global change? Comparative social-ecological systems assessment in the Himalayas and Andes, *Dept. of Forest Sciences and Nature Conservation*, Universidad de Chile, Antumapu, Santiago, Chile, November 19, 2024.
- 2021 + Transboundary water governance: Possibilities and pitfalls at the nexus with energy and food security, Dept. of Geography Colloquium, Penn State University, Oct. 22, 2021.
- 2020 + Harnessing the water-energy-food nexus to arrest groundwater depletion (*via Zoom*), *Dept. of Biological & Environmental Engineering*, Cornell University, October 27, 2020.
- 2019 + Sustaining groundwater irrigation in breadbasket regions: A water-energy-food nexus diagnostic assessment, *Colloquium - Dept. of Ecosystem Science and Management, Strategic Networks and Initiatives Program Speaker Series*, Penn State University, October 8, 2019.
- 2018 + Food-energy-water nexus: Opportunities and limits of integrationist frameworks, *Weston Roundtable Series, Center for Sustainability and the Global Environment, Nelson Institute*, University of Wisconsin-Madison, November 1, 2018.
- 2018 + Gestão adaptativa e segurança hídrica frente às mudanças climáticas: Experiência das bacias transfronteiriças na América árida (Adaptive management and water security under climate change: transboundary basin experience in the arid Americas), *Colloquium – Graduate Program in Urban Management*, Pontifical Catholic University of Paraná, Curitiba, Brazil, March 13, 2018.
- 2017 + Evidence-based decision making: Science-policy dialogues of the Udall Center for Studies in Public Policy. *Colloquium – Department of Soil, Water, Environmental Science*, University of Arizona, October 16, 2017.
- 2017 + Water reuse and urban growth: Challenges and opportunities in the Southwest. *John Gaw Meem Lectureship, School of Architecture and Planning*, University of New Mexico, April 14, 2017.
- 2017 + Water security in the Himalayan region: Availability, use, and governance. *Colloquium – Department of Hydrology & Atmospheric Sciences*, University of Arizona, March 30, 2017.
- 2017 (1) A paradox of plenty: renewable energy on Navajo Nation lands; (2) Hydropower development benefit-sharing in Uttarakhand, India and Nepal; and (3) The irrigation-hydropower nexus in the Ganges headwaters – posters presented at *Institute for Energy Solutions Kickoff*, University of Arizona, January 9, 2017.
- 2016 + Beyond the resource nexus: Food-energy-water security. *Graduate Water Program Colloquium*, Texas A&M University, September 12, 2016.
- 2015 + The water-energy-food nexus in the Ganges Basin: Challenges and opportunities. *International Centre for Integrated Mountain Development*, December 7, 2015.
- 2015 + Water-energy-food nexus: Does energy security trump the rest? *Global Institute of Sustainability Colloquium*, Arizona State University, October 23, 2015.
- 2013 + Diálogo entre ciencia y política para la seguridad hídrica (Science-policy dialogues for water security). *Ciencia y toma de decisiones para la adaptación al cambio climático (Science and decision-making for climate-change adaptation)*, Santiago, Chile, July 4, 2013.
- 2013 + Fortalecimiento de la resiliencia de corredores riparios (Strengthening riparian-corridor resilience), Universidad Nacional Mayor de San Marcos, Lima, Peru, April 26, 2013.
- 2013 + Is groundwater depletion inevitable? *Udall Center Policy Fellows Speaker Series*, Udall Center for Studies in Public Policy and Institute of the Environment, University of Arizona, Tucson, January 30, 2013.

- 2012 + Transboundary aquifer assessment and management, *Arid Lands Resource Sciences Colloquium*, University of Arizona, March 29, 2012.
- 2012 + Climate change, water impacts, and ecosystem management in the Southwest (co-presented with M. Pavao-Zuckerman), *Adaptation to climate change: perspectives at the nexus of science, society, and resource management* (RNR 496B/696A), University of Arizona, February 22, 2012.
- 2011 + Groundwater as a strategic resource: managing overdraft or planned depletion? *School of Geographical Sciences and Urban Planning Colloquium Series*, Arizona State University, Tempe, Arizona, February 9, 2011.
- 2010 + Wastewater irrigation and health in low-income countries, *ADVANCE Data Blitz on Infectious Disease*, University of Arizona, Bio 5, April 26, 2010.

Oral Presentations

- 2024 Forest Carbon is an Essential Part of the Global Climate Solution, co-presented with postdoc Margarita Fernández, Millennium Café, Penn State University, October 22, 2024.
- 2024 Workshop co-moderator, Forest carbon assessment and management across scales: using improved forest management for climate resilience and mitigation, Penn State Climate Consortium, Shavers Creek, PA, May 16-17, 2024.
- 2022 Session co-moderator, Towards climate neutrality in mountains, *International Mountain Conference*, Innsbruck, Austria, Sept. 11-15, 2022.
<https://www.uibk.ac.at/congress/imc2022/index.html.en>
- 2022 Water-energy-food security and the carbon challenge in the central Andes of Argentina, *International Mountain Conference*, Innsbruck, Austria, Sept. 11-15, 2022.
- 2022 + El Nexo Agua-Energía-Alimentos: Co-beneficios de la eficiencia y reuso de los recursos. Ciencias Agrarias, Univ. Nacional Cuyo, May 31, 2022.
- 2022 + Water-energy-food nexus: Addressing the carbon imperative (*via Zoom*), Environmental Change Initiative, Notre Dame University, Mar. 2, 2022.
- 2021 Anticipatory water security governance: Emerging challenges in Himalayan and Andean headwaters basins, International Water Resources Association, *XVII World Water Congress*, Daegu, Korea, Nov. 29 – Dec. 2, 2021. <https://www.iwra.org/congress/2021/>
- 2021 + Water-energy-food nexus assessment for water security under climate change: Applications in Latin America, Presented under Office of Global Programs, Penn State University, University Tadeo, Colombia, Oct. 18, 2021.
- 2021 Feminist visions of renewable energy transitions in Pennsylvania: A comparative perspective (on Zoom). Co-presented by S. Buechler and C. Scott, *Royal Geographic Society Annual Conference*, London, U.K., August 31, 2021.
- 2021 Workshop lead (*via Zoom*): *Renewable Energy Transitions: Comparative Assessment in the Hindu Kush Himalayas, Andes and Alps*, Mountain Research Initiative, Bern, Switzerland, and ICIMOD Himalayan University Consortium, Kathmandu, Nepal, April 7-9, 2021, <https://www.mountainresearchinitiative.org/news-page-all/129-mri-news/2885-renewable-energy-transitions-comparative-assessment-in-the-hindu-kush-himalayas-andes-and-alps>.
- 2020 + Headwater-dependent systems: A research network for the resilience of headwater systems and water availability for downstream communities across the Americas (*via Zoom*), *Research Cooperative Network, Coupled Natural and Human Systems*, Washington State University and

- University of New Mexico, monthly training sessions, 2020.
- 2020 + (Coordination and planning), *Extractive Development?* workshop jointly hosted by Udall Center for Studies in Public Policy and Unité Mixte Internationale – iGlobes, Tucson, January 29 – February 1, 2020.
- 2019 + Water security in headwater-dependent systems (presented in Spanish), Universidad del Norte, Barranquilla, Colombia, November 4-10, 2019.
- 2019 + The nexus of water, energy, and food securities: human well-being and climate resilience, *Water Security Week*, Instituto Mexicano de la Tecnología del Agua, Jiutepec, Morelos, September 9-12, 2019.
- 2019 + Seguridad hídrica en el continente americano, *Agua para el Futuro*, Mendoza, Argentina, March 7-8, 2019. <https://aguaparaelfuturo.com/inicio/>.
- 2019 + River-basin water security, *Inter-American Institute (IAI) project partners final meeting*, Smithsonian Tropical Research Institute, Panamá, April 8-12, 2019.
- 2019 + Communicating sciences across boundaries, *American Association for Advancement of Science Annual Meeting*, Washington, DC, February 14-16, 2019.
- 2019 + A research network for the resilience of headwater systems and water availability for downstream communities across the Americas, *Research Cooperative Network, Coupled Natural and Human Systems (RCN-CNH) project partners meeting*, Univ. de Chile, Univ. de Concepción, Univ. Católica de Concepción, Chile, July 8-12, 2019.
- 2019 + (Univ. Arizona representative and coordinator), *Alliance for Border Solutions*, Univ. California – San Diego, La Jolla, CA, June 5-8, 2019.
- 2019 One swallow does not make a summer, presented by M. Kurian on behalf of co-authors, *Sixth Workshop on the Ostrom Workshop (WOW)*, “Governance: Past, Present, and Future,” Bloomington, IN, June 19-21, 2019.
- 2019 Integrating water, energy, and food securities in the ‘urban century,’ *American Association of Geographers Annual Meeting*, Washington, DC, April 3-7, 2019.
- 2019 Hydro-energy cooperation in the Bangladesh-Bhutan-India-Nepal region: Prospects for transboundary energy and water security in South Asia, presented by **C.A. Scott** on behalf of co-authors, *Science, Health, Engineering Policy and Diplomacy; Sustainable Development for the Americas*, Tucson, AZ, October 23-25, 2019.
- 2019 Headwater-dependent systems: definition, drivers of change and potential futures, presented by **C.A. Scott** on behalf of co-authors, *American Geophysical Union*, San Francisco, CA, December 9-13, 2019.
- 2019 Evidence-based decision making in a post-truth world, *Universities Council on Water Resources*, Snowbird, UT, June 11-13, 2019.
- 2018 + Water-energy-food: How have integrationist frameworks altered the discourse and practice of water management? *Nature-Based Solutions Workshop*, Anil Agrawal Environmental Training Institute, Centre for Science and Environment, Neemli (Rajasthan), India, November 28-30, 2018.
- 2018 + Water security in the arid Americas: Global change drivers, science-policy network solutions, *Surviving Peak Drought and Warming Workshop*, Tucson, Arizona, March 29-30, 2018.
- 2018 + Socio-ecological impacts of mining in arid regions, *Territorio, Agrobiodiversidad y Patrimonio Biocultural* (Territory, Agrobiodiversity and Biocultural Heritage), Centro de Estudios

- Mexicanos y Centroamericanos, Cuetzalan, Mexico, Sept. 18-21, 2018.
- 2018 + Sequía prolongada y manejo adaptativo del agua, *Perspectivas meteorológicas 2018-2019 en el contexto de cambio climático*, Mendoza Argentina, Oct. 9, 2018.
- 2018 + Insights on “limits” of food, energy, and water in extreme environments, *Human Challenges in Extreme Environments*, workshop jointly hosted by Unité Mixte Internationale – iGlobes and the Udall Center for Studies in Public Policy, Tucson, November 12-13, 2018.
- 2018 + Hydropower: Renewable carbon-neutral energy or high-impact relict? *Adaptation TED-ish Talks*, Center for Climate Adaptation Science and Solutions, University of Arizona, Tucson, February 9, 2018.
- 2018 + Developing and sustaining science-policy networks, *International Center for Integrated Water Resources Management, Partners Meeting*, Washington, DC, January 19, 2018.
- 2018 Water security on the third pole: Availability, use, and governance of water in the Hindu Kush Himalaya, presented by F. Zhang on behalf of C.A. Scott, F. Zhang, A. Mukherji et al. *2nd International Mountain Futures Conference*, Kunming, China, June 3-8, 2018.
- 2018 Urban wastewater for peri-urban agriculture in northwest Mexico: Health risk, water resources, and sanitation policy challenges, *World Social Science Forum*, Fukuoka, Japan, Sept. 25-28, 2018.
- 2018 Uncertainty and limitation of science and science communication (session co-coordinator), *8th World Water Forum*, Brasilia, Brazil, March 22, 2018.
- 2018 The coming challenges: Water resources in the border region, *Binational Water Relations at 75 Years: Retrospectives, Resilience, and U.S.-Mexico Border Water Resources Governance*, Udall Center for Studies in Public Policy and Colegio de Sonora, Tucson, October 15-16, 2018.
- 2018 Conference co-coordinator, *Desafíos en seguridad hídrica y resiliencia ante el cambio global en zonas áridas del continente americano*, Guaymas, Mexico, April 17-21, 2018.
- 2017 + Does the pursuit of food security jeopardize water security? *Ashoka Trust for Research in Ecology and the Environment*, Bangalore, India, January 24-25, 2017.
- 2017 + Water security: Availability, use, and governance. Writeshop for Coordinating Lead Authors and Review Editors, *Hindu-Kush Himalayan Monitoring and Assessment Program (HIMAP)*, International Centre for Integrated Mountain Development, Kathmandu, Nepal, August 28-31, 2017.
- 2017 + Water security in the Arid Americas, *Congreso Agua Andes*, Ayacucho, Peru, September 19-21, 2017.
- 2017 + UNMASKing the interactions among food-water-energy security and climate risks in cities, National Center for Atmospheric Research, Boulder, Colorado, Oct. 2-3, 2017.
- 2017 + Una paradoja de la abundancia: energía renovable en tierras de las Naciones Indígenas de la región transfronteriza (*A paradox of plenty: renewable energy on Native Nations lands in the transboundary region*), Skype presentation to Primer Coloquio Internacional - Pobreza Energética en la Región Transfronteriza México-Estados Unidos, Hermosillo, Mexico, May 18-19, 2017.
- 2017 + Seguridad hídrica en la región fronteriza EEUU-México: Lecciones para la resiliencia de zonas áridas (*Water security in the U.S.-Mexico borderlands: Lessons for arid-region resilience*), **and** El desafío de las métricas significativas en la gobernanza del agua: implicaciones para la equidad y la justicia (*The Challenge of meaningful metrics in water governance: Implications for equity and justice* – presented on behalf of Margaret Wilder). Seminario de perspectivas actuales de la

- gestión del agua en México (Seminar on current perspectives on water management in Mexico), El Colegio de la Frontera Norte, Monterrey, Mexico, Dec. 7-8, 2017.
- 2017 + Science and policy networks in the Southwest and U.S.-Mexico borderlands, Western Coalition of Arid States, Tucson, October 26, 2017.
- 2017 + Moderator: *2017 IANAS – Smart Villages Symposium*, University of Arizona, the Inter-American Network of Academies of Sciences (IANAS), the Smart Villages initiatives, and UNAM Tucson, Biosphere 2, Tucson, April 25, 2017.
- 2017 + Member, Program Committee (unable to attend in person), International Energy Conference, Mexican Energy Academy, Instituto Politécnico Nacional, Mexico City, Sept. 4-8, 2017.
- 2017 + Binational United States - Mexico initiatives to address complex environmental challenges in the border region, Council of Environmental Deans and Directors - 2017 Summer Meeting: *Higher Education, Science, and the Environment: Identifying Gaps and Building Bridges*, Tucson, June 19-20, 2017.
- 2017 + Advancing Sustainability of US – Mexico Transboundary Drylands: A Binational Workshop, scientific committee chair and plenary moderator, *US and Mexican National Academies of Science*, San Luis Potosí, Mexico, May 2-4, 2018.
- 2017 *Resilience and complexity: Frameworks and models to capture social-ecological interactions*, Joint-convenor, CNRS/UMI and the Udall Center for Studies in Public Policy, University of Arizona, Tucson, Nov. 6-8, 2017.
- 2017 Pursuing Water Security in Socio-hydrological Systems, joint session moderator, *American Geophysical Union*, New Orleans, December 11, 2017.
- 2017 Convenor, “Science Crossing Borders” Summit of the Consortium for Arizona-Mexico Arid Environments (CAZMEX), Biosphere 2, Tucson, May 5-6, 2017.
- 2016 + Water-energy-food nexus. *International Forum on the Future of Water*, Argentine Ministry of Science, Technology and Productive Innovation and University of San Martin, Buenos Aires, October 18-21, 2016.
- 2016 + Water security: Resource availability, use, and governance in the Hindu Kush - Himalaya (HKH) region, *HKH Monitoring and Assessment Program Writeshop*, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, April 10-12, 2016.
- 2016 + Organizing Committee, *1st Annual Water Ethics Symposium: Building Strategies for Water Ethics: Future Directions in Research and Education*, University of Arizona, Tucson, April 25, 2016.
- 2016 + Farmer-managed irrigation systems, B. Thapa, C.A. Scott. *Himalayan Adaptation, Water and Resilience (HI-AWARE) Academy: Research on Glacier and Snowpack Dependent River Basins for Improving Livelihoods*, New Delhi, February 26–28, 2016.
- 2016 Rural and urban transitions with biogas and biomethane in Brazil: a water-energy-food nexus analysis. J.C. Pasqual, H.A. Bollmann, C.A. Scott, S. Andersen, M.V. Lange. International Conference on Renewable Energies and Power Quality (ICREPQ 16). Madrid, Spain, May 4-6, 2016.
- 2016 Irrigation - hydropower tradeoffs and complementarities, *Stakeholder science-policy workshop, Irrigation-Hydropower Nexus in the Ganges Basin Headwaters*, Dehra Dun, India, March 1, 2016.
- 2015+ El nexo agua-energía-alimentación (The water-energy-food nexus). Universidad de Piura y Universidad Nacional Mayor de San Marcos, Piura, Peru, July 14-15, 2015.
- 2015 + Plenary address: El nexo agua - energía ¿Ciclo virtuoso o vicioso frente al cambio climático?

- (The water-energy nexus: virtuous or vicious cycle facing climate change?) *Congreso Internacional de Energía*, Mexico City, Sept. 8-11, 2015.
- 2015 + Cambio climático en regiones áridas de las Américas (Climate change in the arid Americas), Simposio: Agua como factor estratégico para el desarrollo en el context global de escasez. (Water as a strategic factor for development in the global context of scarcity), Consejo Argentino de Relaciones Internacionales, Buenos Aires, Argentina, July 22, 2015.
- 2015 Water security: Science, systems and policy - joint session co-organized by C.A. Scott, C. Staddon, B. Lankford, *XV World Water Congress*, Edinburgh, Scotland, May 25-29, 2015.
- 2015 Cambio global y seguridad hídrica en el continente americano (Global change and water security in the Americas), Mendoza Provincial Irrigation/ Water Resources Department – University of Arizona collaborative agreement signing ceremony, Mendoza, Argentina, July 21, 2015.
- 2014 + Strengthening resilience of riparian corridors in the US-Mexico borderlands, *Research Insights in Semi-Arid Environments, 1st Annual Symposium*, Tucson, October 18, 2014.
- 2014 + Socio-hydrology: conceptual and methodological challenges in the bidirectional coupling of human and water systems, *American Geophysical Union*, San Francisco, December 16-18, 2014.
- 2014 Socio-hydrology of water scarcity in the United States – Mexico borderlands, *International Association of Hydrological Sciences*, Bologna, Italy, June 4-6, 2014.
- 2014 Networked knowledge systems in the arid Americas and beyond, *III International Climate Change Adaptation Conference - Adaptation Futures 2014*, Fortaleza, Ceara, Brazil, May 12-16, 2014.
- 2013 + Understanding coupled human-water systems, *Advancing Socio-hydrology: A New Science of People and Water*, Beckman Institute, University of Illinois- Urbana Champaign, August 28-30, 2013.
- 2013 + Strengthening resilience of riparian-corridor coupled natural-human systems, *Towards socio-hydrologic synthesis: modeling the co-evolutionary dynamics of coupled human, water, and ecological systems*, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland, December 13-16, 2013.
- 2013 + Seguridad hídrica y adaptación al cambio climático en zonas áridas (Water security and climate-change adaptation in arid regions), *Cuarto Seminario Internacional de Potamología (Fourth International Potamology Seminar)*, Jiutepec, Mexico, October 24-15, 2013.
- 2013 + Resource-use efficiency – once paradigm now paradox: The socio-hydrology of waste. “*Socio-hydrology: Coevolution and future of human-water resource systems*”, *American Association for the Advancement of Science*, Boston, MA, Feb. 14-18, 2013.
- 2013 + Mapeo de actores y análisis institucional (Actor mapping and institutional analysis), *Vulnerabilidad y adaptación a la variabilidad y al cambio climático en la Cuenca del Río Maipo en Chile Central (Vulnerability and adaptation to climate variability and change in the Maipo Basin, Central Chile)*, Isla del Maipo, Chile, April 25, 2013.
- 2013 + Innovative science and influential policy dialogues for water security in the arid Americas, University of the West of England and Lloyds Register Foundation, London, UK, May 20-22, 2013.
- 2013 The water-energy nexus in global context, “*Water Resources and Sustainable Development*”, *Association of American Geographers*, Los Angeles, CA, April 12, 2013.
- 2012 + Water-energy nexus: institutions and policy, *Anticipatory R&D Investments for Energy-Water-Climate Change in Arid Regions*. University of Arizona and Sandia National Laboratories,

- Tucson, February 21, 2012.
- 2012 + Water security and adaptive management in the arid Americas (plenary presentation), *Water Security, Risk & Society - International Water Security Conference*, Oxford, UK, April 16-18, 2012 (presented in absentia).
- 2012 + Urban water supply, wastewater management, and energy demand, *Border Energy Forum XIX*, Hermosillo, Sonora, Urban Water Supply, October 23, 2012.
- 2012 + Socio-hydrology: Discovering patterns in coupled human-water resource systems, *American Geophysical Union*, San Francisco, December 3-7, 2012.
- 2012 + Seguridad hídrica y manejo adaptativo en las regiones áridas de América, *Seminario Lanzamiento Centro AQUASEC sobre Seguridad Hídrica en las Américas*, Pontificia Universidad Católica, Santiago, Chile, March 13, 2012.
- 2012 + Climate-ready water and wastewater infrastructures: resilience under changing climate, regional water supply uncertainty, and variable demand in southern Arizona, *Adaptation Futures International Conference on Climate Adaptation*, Tucson, May 29-31, 2012.
- 2012 + Binational collaboration for assessment of the Santa Cruz and San Pedro aquifers Update of Arizona-Sonora collaboration under the US-Mexico Transboundary Aquifer Assessment Program. *EWRI 6th World Environmental & Water Resources Congress*, Albuquerque, NM, May 20-24, 2012 (C. Scott lead author, presented in absentia).
- 2012 Water security in the arid Americas: launch of AQUASEC center (session coordinator), *Adaptation Futures International Conference on Climate Adaptation*, Tucson, May 29-31, 2012.
- 2011 + The climate-groundwater-energy nexus in Mexico, *Workshop on Water, Climate, and Society in Mexico*. Guanajuato, Guanajuato, Mexico, May 11-12, 2011.
- 2011 + Water: conflict and cooperation challenges under future climate change, population growth, and ecosystem needs, *Making a difference: WOSA International Studies Conference*, Colorado State University, Fort Collins, Colorado, July 29 – Aug. 1, 2011.
- 2011 + Water, land, and development in comparative (Arizona-Israeli-Palestinian) perspective. *Exploring Global Water Issues, Title VI Department of Education Directors Conference*, Tucson, Arizona, March 4, 2011.
- 2011 + Transboundary water and climate adaptation, *International Consortium for Adaptation in Drylands, Universidad Nacional Autónoma de México – University of Arizona*, Mexico City, Oct. 24-25, 2011.
- 2011 + The water-energy nexus in a global context, *International Workshop on Clean Energy and Water: an Assessment of Services for Local Adaptation to Climate Change*, International Development Research Centre, Porto de Galinhas, Brazil, Sept. 23-24, 2011.
- 2011 + The global sanitation challenge: water, wastewater, and the Millennium Development Goals, *Engineers Without Borders-USA, 2011 Mountain Region Training Workshop*, Tucson, Nov. 11-13, 2011.
- 2011 + Member, organizing committee: *VIII Congreso Nacional de Aguas Subterráneas, Asociación Geohidrológica Mexicana (VIII National Congress on Groundwater, Mexican Geohydrological Association)*, Querétaro, Mexico, November 14-17, 2011.
- 2011 + Groundwater and electrical power tariffs – elusive sustainability? *Border Energy Forum / Re-Energize the Americas*, El Paso, TX, October 27-28, 2011.
- 2011 + Environmental and social change in the U.S.-Mexico borderlands: Climate, water, and demographic futures, *Sustainability on the Border: Water, Climate, and Social change in a Fragile*

- Landscape*, El Paso, Texas, May 16-18, 2011.
- 2011 + Discussant: Transitions in agriculture & environment, *University of Arizona Tinker Symposium, Center for Latin American Studies*, Tucson, Nov. 3, 2011.
- 2011 Urban core vulnerabilities to climate change: Potential of regional water and wastewater planning, session on Urban Adaptation, *Association of American Geographers Annual Meeting*, Seattle, WA, April 16, 2011.
- 2011 Session moderator: The Water - Energy Nexus; presenter, “Energy demand and displaced environmental impacts of long-distance water conveyance: the Central Arizona Project’s water-energy nexus;” & co-author on three students’ presentations, *Association of American Geographers Annual Meeting*, Seattle, WA, April 13, 2011.
- 2011 Session moderator: Social-Ecological Systems: Theory, Methods, and Modeling, *Association of American Geographers Annual Meeting*, Seattle, WA, April 15, 2011.
- 2011 Making the connection between science and environmental decision making (*presented by C. Woodhouse with C. Scott, others as co-authors*), *AGU Fall Meeting*, San Francisco, CA, December 5-9, 2011.
- 2011 Localizing decisionmaking on groundwater in the U.S.-Mexico Upper San Pedro River Basin (*presented by R. Varady with C. Scott, S. Megdal as co-authors*), *Conference on The Management of the Guarani Aquifer System: An Example of Cooperation*, São Paulo, Brazil, September 22, 2011.
- 2011 Linking hydrology, geology, chemistry, and biology in the Upper Santa Cruz River Basin (*presented by J. Callegary with C. Scott, others as co-authors*), *Santa Cruz River Researcher’s Day*, Tucson, Arizona, March 29, 2011.
- 2011 Hydrogeologic framework of the upper Santa Cruz basin (Arizona and Sonora) using well logs, gravity, magnetics, and frequency and time domain electromagnetics (*presented by J. Callegary with C. Scott, others as co-authors*), *AGU Fall Meeting*, San Francisco, CA, December 5-9, 2011.
- 2011 Host: *Inception Workshop: Strengthening Resilience of Arid Region Riparian Corridors: Ecohydrology and Decision-Making in the Sonora and San Pedro Watersheds*, Tucson, Arizona, Jan. 28, 2011.
- 2011 Host: *Climate Risk and Water Security in the Americas*, San José del Cabo, Baja California Sur, México, Feb. 27 – Mar. 2, 2011.
- 2011 Co-host: *Workshop on Infrastructure Sustainability, Resilience, and Robustness*, Tucson, Arizona, Jan. 13-14, 2011.
- 2011 Building capacity for adaptation to climate change in arid North America, at the nexus between water, energy and environment (*presented by G. Garfin with C. Scott, others as co-authors*), *World Climate Research Programme Open Science Conference*, Denver, CO, October 24-28, 2011.
- 2010 + Session moderator: Energy Efficiency and Water Systems/ Eficiencia de Energía y Sistemas de Agua, *and* speaker “La escasez de energía y agua: impactos sobre la infraestructura, el crecimiento y el desarrollo económico en Arizona y Sonora (Energy and water scarcity: impacts on infrastructure, growth and economic development in Arizona- Sonora)” *Border Energy Forum XVII*. Chihuahua, Mex., Sept. 29 – Oct. 1, 2010.
- 2010 + Session moderator: Agricultural Groundwater and Energy Nexus; *and* Plenary session chair: Law and Legal Policy in Groundwater Governance. *Toward Sustainable Groundwater in Agriculture – An International Conference Linking Science and Policy*. Univ. California - Davis & Water Education Foundation, San Francisco, June 15-17, 2010.
- 2010 + Session chair: Arizona-Sonora Transboundary Aquifer Assessment, Management, and Policy.

- Arizona Hydrological Society – International Association of Hydrogeologists Symposium*, Tucson, Arizona, September 1-4, 2010.
- 2010 + Groundwater overdraft in Mexico: climate, energy, and population drivers. *Toward Sustainable Groundwater in Agriculture – An International Conference Linking Science and Policy*. U. California-Davis & Water Education Foundn., San Francisco, Jun 15-17, 2010
- 2010 Vulnerabilidad y resiliencia al cambio climático, variabilidad, y crecimiento urbano en Tucson, Arizona (Vulnerability and resilience to climate change, variability, and growth in Tucson, Arizona). *IV Taller Binacional - Agua y Clima: Gestión Urbana de Agua, Cambio Climático y Estrategias Adaptativas para la Región Sonora y Arizona* (IV Binational Water and Climate Workshop—Urban Water Management, Climate Change, and Adaptive Strategies for the Arizona-Sonora Region), Hermosillo, Son., May 7, 2010.
- 2010 Transboundary aquifer institutions, policies and governance: A preliminary inquiry (*presented by R. Varady, with C. Scott, others as co-authors*)
- ∞ Institutional assessment of the transboundary Santa Cruz and San Pedro aquifers on the United States – Mexico border (*presented by S. Megdal with C. Scott, others as co-authors*). *Transboundary Aquifers: Challenges and New Directions*. UNESCO, Paris, December 6-8, 2010.
- 2010 Session moderator: Water, Energy, and Global Change (co-sponsored by Water Resources and Energy & Environment Specialty Groups). *Association of American Geographers Annual Meeting*, Washington, DC, April 14-18, 2010.
- 2010 Optimization of conjunctive water supply and reuse systems with distributed treatment for high-growth, water-scarce regions. National Science Foundation, Emerging Frontiers in Research Innovation, Arlington, VA, March 18-19, 2010.
- 2010 Host: *Water Reuse and Growth Workshop* (in association with *14th Annual Water Reuse and Desalination Research Conference*), Tampa, FL, May 26, 2010.
- 2010 Assessing resilience of arid region riparian corridors: ecohydrology and decision-making in United States – Mexico transboundary watersheds;
- ∞ Adaptive water management in the United States – Mexico border region: Agriculture and urban growth under climate change and variability, *Global Land Project – Open Science Meeting*, Arizona State University, Tempe, Arizona, October 17-19, 2010.
- 2010 Assessing resilience in transboundary arid region riparian corridors: a social-ecological systems approach. In session Debating the Theory, Practice & Impact of Transfrontier Conservation II. *Association of American Geographers Annual Meeting*, Washington, DC, April 14-18, 2010.
- 2009 + Session co-organizer: Managing Agricultural Systems in a Non-stationary World, for “Climate, Water, and Land Cover Change in a Non-stationary World”, Sustainability of Semi-Arid Hydrology and Riparian Areas 9th Annual Meeting, Tucson, AZ, September 23-24, 2009.
- 2009 + Rural vulnerability to water resources variability under climatic uncertainty in western North America, for session “The Water Wars: Water as a Commodity or as a Human Right”, *International Congress of Americanists*, Mexico City, July 23, 2009.
- 2009 + Physical environments in Arizona, Israel, and Palestine: landscape, physiography, climate, and current water availability. *Symposium on Water Policy in Semi-Arid Regions: Lessons from Arizona, Israel, and Palestine*, Tucson, AZ, August 31 – September 2, 2009.
- 2009 + Flujo de información a tomadores de decisión. *Dimensiones Humanas de Ciclones Tropicales* (Information flows to decision-makers. *Humans Dimensions of Tropical Cyclones*), Centro de

- Ciencias de la Atmósfera, Univ. Nacional Autónoma de México, Acapulco, March 13, 2009.
- 2009 + Evaluación de acuíferos transfronterizos en la frontera Estados Unidos – México en el contexto de cambio climático y crecimiento de la demanda de agua en áreas urbanas (Assessment of United States - Mexico transboundary aquifers facing climate change and growth in urban water demand), VII Congreso Nacional de Aguas Subterráneas, *Asociación Geohidrológica Mexicana* (VII National Congress on Groundwater, *Mexican Geohydrological Association*), San Carlos, Sonora, November 10-13, 2009.
- 2009 The evolution of urban heat island and water demand. *American Meteorological Society 89th Annual Meeting*, Phoenix, AZ, January 11-15, 2009.
- 2009 Session moderator: Water, Energy, and Global Change (co-sponsored by Water Resources and Energy & Environment Specialty Groups). *Association of American Geographers Annual Meeting*, Las Vegas, NV, March 22-27, 2009.
- 2009 Institutions and societal impacts of climate in the Arizona-Sonora portion of the U.S.-Mexico border region (poster by R.G. Varady, G. Garfin, M. Wilder, **C.A. Scott**, A. Browning-Aiken, B. Morehouse, N. Pineda, A. Coles, J. McEvoy, K. Sammler, A. Ray, D. Gochis, T. Cavazos, L. Farfan, R. Díaz), *Climate Change: Global Risks, Challenges and Decisions*, Copenhagen, Denmark, March 10-12, 2009.
- 2009 Improving information flows to enhance drought and climate change resilience in northern Mexico (poster by G. Garfin A. Coles, J. McEvoy, K. Sammler, R. Varady, M. Wilder, **C.A. Scott**, T. Cavazos, A. Ray, D. Gochis, N. Pineda, L. Farfán, R. Díaz), *NOAA Climate Prediction and Applications Workshop*, March 24-27, 2009.
- 2009 Implicaciones de la sobre-explotación de aguas subterráneas para la adaptación y mitigación del cambio climático (Groundwater depletion implications for adaptation and mitigation of climate change). *II Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte* (II Workshop on Climate Change and Variability in Western North America), Instituto Mexicano de Tecnología del Agua, Cuernavaca, Mexico, July 22, 2009.
- 2009 Fortaleciendo el diálogo entre científicos-investigadores y gerentes-tomadores de decisión (Strengthening dialogue between scientist-researchers and manager-decisionmakers). *III Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte* (III Workshop on Climate Change and Variability in Western North America), Puerto Peñasco, Mexico, October 2, 2009.
- 2009 Co-host: *Arizona-Sonora Transboundary Aquifer Assessment Workshop*, Tucson, AZ, November 3-4, 2009.
- 2009 Co-host and lead, research team presentation: *Researcher-Managers Workshop on Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region*, Arizona Water Institute, Tucson, AZ, June 1, 2009.
- 2009 Adapting to water scarcity and changing climate. *University of Arizona Environmental Summit*, April 22, 2009.
- 2009 Adapting across boundaries: knowledge, social learning and resilience in the U.S.-Mexico border region (presented by M. Wilder with C. Scott and others as co-authors). *Earth Systems Governance Conference*, Amsterdam, December 3, 2009
- 2009 (Presented by M. Wilder) Institutions and societal impacts of climate in the Arizona-Sonora portion of the U.S.-Mexico border region (paper by R.G. Varady, M. Wilder, **C.A. Scott**, N. Pineda, B.J. Morehouse, and G. Garfin), *Open Meeting of the International Human Dimensions Program (IHDP)*, Bonn, Germany, April 26-30, 2009.

- 2009 (Presented by A. Browning-Aiken) Drought and adaptive water-resources management in southern Arizona, for “*Managing Hydrologic Extremes*”, *Arizona Hydrological Society & American Institute of Hydrology*, Scottsdale, AZ, August 30 – September 2, 2009.
- 2008 + Session chair: Energy and Water Ethics. *American Institute of Professional Geologists and Arizona Hydrological Society Symposium “Changing Waterscapes and Water Ethics for the 21st Century.”* Flagstaff, Arizona, September 20–24, 2008.
- 2008 + Perceptions of wastewater: users and institutions for beneficial use. Wastewater Irrigated Food: Consumer Health Risk Assessment, On-farm and Off-farm Options for Health Risk Mitigation, and Wastewater Governance in Low-income Countries. Symposium organized by International Development Research Centre, International Water Management Inst., World Health Organization, Accra, Ghana, Oct. 6-9, 2008.
- 2008 Session chair: Adaptation and Mitigation under Climate Change and Uncertainty. *American Geophysical Union Fall Meeting*, San Francisco, CA, December 15-19, 2008.
- 2008 Groundwater rights in Mexican agriculture: spatial distribution and social and economic determinants. *Association of American Geographers Annual Meeting*, Boston, MA, April 19, 2008.
- 2008 Cactus, riparian habitat, and turf grass: water budget and policy implications of vegetation change under urban heat island and effluent irrigation in the southwest U.S. *American Geophysical Union Fall Meeting*, San Francisco, CA, December 15-19, 2008.
- 2008 Building shared vision: assessment of transboundary aquifers along the United States – Mexico border. *International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses*, University of California – Irvine, UNESCO, USGS, Irvine, CA, December 1-5, 2008.
- 2008 Adaptive water resources management under climatic uncertainty in western North America (and member of workshop organizing committee). *Regional Climate Forum for Northwest Mexico and the Southwest United States* (Centro de Investigación Científica y de Educación Superior de Ensenada and NOAA), Ensenada, Baja California, April 10-11, 2008.
- 2007 + Water and energy management challenges on the Arizona-Mexico border. *Southwest Hydrology and Arizona Hydrological Society Regional Water Symposium*, Tucson, AZ, August 31, 2007.
- 2007 Session chair: Coupled water and energy demand in the Southwest and U.S.-Mexico border region. *Southwest Hydrology and Arizona Hydrological Society Regional Water Symposium*, Tucson, AZ, August 31, 2007.
- 2007 Energy boom and groundwater bust: Mexico’s water-energy nexus with implications for the U.S. border region. *First Western Forum on Energy and Water Sustainability*, Bren School of Environmental Science & Management, Univ. of California, Santa Barbara, March 22, 2007.
- 2007 Appropriation of Río San Juan water by Monterrey city, Mexico: implications for agriculture and basin water sharing. *Association of American Geographers Annual Meeting*, San Francisco, CA, April 17, 2007.
- 2006 Urban wastewater impacts on the spatial distribution of solutes and microbial constituents in the Musi River, India. *American Geophysical Union Spring Meeting*, Baltimore, MD, May 23, 2006.
- 2004 + Groundwater in the Indus-Ganges Basin: energy supply and pricing impacts, *World Water Week*, Stockholm, Sweden, August 15-20, 2004.
- 2004 Wastewater use in irrigated agriculture, *World Water Week*, Stockholm, Sweden, August 15-20, 2004.

- 2003 Groundwater overdraft reduction through agricultural energy policy, *III World Water Forum*, Kyoto, Japan, March 21-24, 2003.
- 2001 Facing water scarcity in Jordan, Strategies for Water Supply Development/ Management in Developing Nations, American Geophysical Union Spring Meeting, Boston, MA, May 29 – June 2, 2001.
- 1999 + Conjunctive Management of Surface Water and Groundwater in the Middle Río Lerma Basin, Mexico, *International Workshop on Integrated River Basin Management in Latin America*, International Water Resources Association, Mexico City, April 26-28, 1999.
- 1999 Remote Sensing Assessment of the Extent of Groundwater Irrigation in the Lerma-Chapala Basin, Mexico, *International Symposium on Integrated Water Management in Agriculture*, INIFAP and IMTA, Gómez Palacio, Mexico, June 16-18, 1999.
- 1999 Interactive, Real-time Simulation of Conjunctive Surface and Groundwater Management with Mexican Water Professionals. Hands-on module presented at training on *Integrated River Basin Management*, Third World Centre for Water Management, Mexico City, April 29, 1999.
- 1998 Integración Vertical de Funciones Transferidas para el Manejo Sostenible de las Cuencas: Observaciones Conceptuales, *III Seminario Internacional: Transferencia de Sistemas de Riego*, Colegio de Postgraduados, Torreón, Mexico, September 2-5, 1998.
- 1997 Tile Drain Phosphorus Export from Manure-Applied Land, *National Water Quality Watershed Project Symposium*, USDA and USEPA, Washington DC, Sept. 22-26, 1997.
- 1997 Monitoring and research to assess the water quality impacts of best management practices, *Agricultural Environmental Management Conference*, Natural Resources Conservation Service, Auburn NY, May 28, 1997.
- 1996 Phosphorus transport in spring snowmelt runoff (poster). *American Geophysical Union Fall Meeting*, San Francisco, December 1996.
- 1996 Hydrologic Land Use Classification with Thematic and Spatial Inputs, *Watershed Restoration and Management Symposium*, American Water Resources Association, Syracuse NY, July 14-17, 1996.
- 1992 Who Participates in Whose Irrigation Management? A Case of Government Involvement in Farmer-Managed Irrigation in the Shivalik Hills, *National Workshop on Farmers' Participation in the Management of Irrigation*, Administrative Staff College of India, Hyderabad, India, February 1992.
- 1992 Streamside Pumpwell and Discharge Regulator for Pressurized Systems, *Workshop on Irrigation Design for Hill/Mountain Regions*, International Irrigation Management Institute, Kathmandu, Nepal, January 1992.
- 1991 Workshop Report: Reconversion of Wasteland into Agricultural Land, *Sustainable Development and Biodiversity Symposium*, Cornell University, Ithaca, NY, Sept. 1991.
- 1991 Soil moisture enhancement and groundwater recharge through the integration of vegetative and structural measures in Indian semi-arid zone watersheds, *European Geophysical Society Conference*, Katlenburg-Lindau, Germany, April 1991.
- 1988 The Depur-Dolpura-Shyampura Social Forestry Project, *Conference on Small Watershed Management*, Society for Promotion of Wasteland Development, New Delhi, India, November 1988.
- 1987 Ultraviolet sterilization of drinking water, *International Conference on Resource Mobilization for Drinking Water and Sanitation in Developing Countries*, Water and Sanitation for Health

(WASH), San Juan, Puerto Rico, May 1987.

1987 + Cover the earth: plasters for soilblock buildings, *Housing and Urban Development Conference*, Trivandrum, India, November 1987.

Panels

- 2024 + Panel co-host: Water-Energy-Food Nexus: Collaboration Opportunities between Colombia, Chile and USA, Universidad Técnica Federico Santa María, San Joaquín, Santiago, Chile, November 21, 2024.
- 2024 + Panelist (via Zoom): La biodiversidad como cuarto eje del nexus agua-energía-alimentos en el análisis de los ecosistemas para la seguridad humana, climática y planetaria. Congreso Biodiversidad y el Futuro Sostenible de Colombia, Conference of Parties (COP) 16, Convention for Biodiversity, Cali, Colombia, October 25, 2024.
- 2024 + Panelist: Ecological Depression and Ecosystem Management in the Age of the Anthropocene, Dept. of Ecosystem Science and Management, Penn State University, April 15, 2024.
- 2022 + Panelist (via Zoom): Dialogues on the Bicentennial of Diplomatic Relations between Mexico and the United States, Universidad Nacional Autónoma de México, Chicago, Dec. 7, 2022.
- 2022 + Moderator and panel discussant (via Zoom), Soundings film screenings, Penn State Water Council and Sustainability Institute, <https://intersections.psu.edu/h2o-pulse/>, Sep. 29, 2021; Feb. 23, 2022; Oct. 12, 2022.
- 2021 + Panelist: The Economics of Water Quality (with World Bank Water Global Practice, Senegal Minister of Water Resources, S. Korea Environmental Planning Dept, United Nations Environment Program), XVII World Water Congress, International Water Resources Association, Nov. 29, 2021.
- 2021 + Panelist (via Zoom): Transitions in Groundwater: The Energy Nexus, *Reimagining Groundwater Governance*, Advanced Center for Water Resources Development and Management (ACWADAM), Pune, India, July 20 and 27, August 3 and 10, 2021.
- 2021 + Panelist (via Zoom): Water Security in the Arid Americas: The AQUASEC Science-Policy Network, *18th Annual Climate Prediction Applications Science Workshop*, NOAA, April 20-22, 2021.
- 2020 + Panelist (via Zoom): Food, energy and water security in the borderlands: Chihuahua as the linchpin of Mexico-U.S. hydrodiplomacy, *Water Challenges on the U.S.-Mexico Border (Inaugural Session of Food Security in the Americas Series)*, David Rockefeller Center for Latin American Studies, Harvard University, October 28, 2020, <https://drclas.harvard.edu/event/water-challenges-us-mexico-border>, <https://www.youtube.com/watch?v=Zh9I8N4GePs>.
- 2019 + Expert Panel: The Future of Free Trade and North America. *Arizona and the Future of North American Trade*, University of Arizona, Tucson, October 30, 2019.
- 2019 + Networking for Science Diplomacy, panel discussion moderated by C. Scott, at *Science, Health, Engineering Policy and Diplomacy; Sustainable Development for the Americas*, Tucson, AZ, October 23-25, 2019.
- 2019 + Expert panel: Water security in the America, *Agua para el Futuro*, Mendoza, Argentina, March 7-8, 2019. <https://aguaparaelfuturo.com/inicio/>.
- 2018 + Research proposal development panel (GEOG 500), University of Arizona, February 8, 2018.
- 2016 + Career panel, *Professional development graduate seminar series* (GEOG 695B), University of

- Arizona, April 15, 2016.
- 2016 + Socio-hydrology meets the hydro-social cycle, *Panel on the Future of Hydrological Science: The Next 50 Years*, Hydrology and Atmospheric Science, University of Arizona – National Groundwater Association Symposium, Tucson, April 2, 2016.
- 2016 + Panelist: Adaptation policy: A multilevel governance perspective. *Climate Change Adaptation Policy and Science Conference*, New Delhi, February 24–25, 2016.
- 2014 + Questions of scale: Applying global and regional climate scenarios to Hindu-Kush/Himalayan basins (Panelist), *Mountain People Adapting to Change: Solutions Beyond Boundaries Bridging Science, Policy and Practice*, International Center for Integrated Mountain Development, Kathmandu, Nepal, Nov. 9-14, 2014. <http://lib.icimod.org/record/32103/files/icimodProc3-2016.pdf>.
- 2014 Organizer, science-policy workshop, *AQUASEC – Water security in river basins of the arid Americas*, for 30 researchers, agency managers, NGOs, and decision-makers from Chile, Argentina, Brazil, Mexico, Peru, and the U.S., held in Fortaleza, Brazil, May 10-11, 2014; and *AQUASEC* panel session coordinator, *Adaptation Futures 3rd International Conference*, Fortaleza, May 12-16, 2014.
- 2014 + *Climate Change 2014: Impacts, Adaptation, and Vulnerability – Panel Discussion on IPCC Working Group II: Fifth Assessment Report*: C. Scott – water; S. Jackson – ecosystems; K. Jacobs – N. America regional; D. Liverman – adaptation, food security. University of Arizona, Student Union Kiva Room, March 31, 2014.
- 2012 Organizer, science-policy workshop, *AQUASEC - Climate Risk and Water Security in the Americas*, for 30 researchers, agency managers, NGOs, and decision-makers from Chile, Argentina, Brazil, Mexico, Canada, and the U.S., held in Santiago, Chile, March 11-14, 2012; and *AQUASEC* panel session coordinator, *Adaptation Futures International Conference*, Tucson, May 29-31, 2012.
- 2009 + Panelist: Energy and Water, Southwest Renewable Energy Conference: Integrating Policy with Technology to Bring Renewables to the Grid, Flagstaff, AZ, Sept. 11, 2009.
- 2009 + Panelist: *Agua, territorio, y medio ambiente: políticas públicas y participación ciudadana* (Water, land, and environment: public policy and citizen participation), *International Congress of Americanists*, Mexico City, July 21, 2009.
- 2009 + Panelist: Integrated Water Resources Management, *Best Practices for Stakeholder Engagement in Water Resources Planning*, Water Resources Research Center 2009 Annual Conference, University of Arizona, March 17, 2009.
- 2009 + The global commodification of wastewater. Panel on *New Trends in Regulation*, Symposium on *Water Governance: the Public-Private Debate*, organized by Unité Mixte Internationale (University of Arizona and Centre National de la Recherche Scientifique), University of Arizona, February 4, 2009.
- 2009 + Geography and international development. *Departmental Colloquium (Geography e³ Regional Development)* “Life After Graduate School” panel, University of Arizona, January 16, 2009.

Posters, Papers and Oral Presentations

- 2024 Advances in Integrated Crop-Livestock-Biogas Systems for Enhancing Water Quality and Sustainability in the Chesapeake Bay Watersheds: A Case Study of Dickinson College Farm (Y. Khajavigodellou, N. Mellios, J. Johnson, J. Moumouh, T. Ningi, **C.A. Scott**), American Geophysical Union, Washington, DC, December, 2024.

- 2024 Hydrological and Cryospheric Changes in the Chenab Transboundary River Basin in the Western Himalaya Over the 21st Century Under a Changing Climate (T. Shirsat, A. Kulkarni, A. Momb Blanch, E. Boyer, A.K. Taloor, **C.A. Scott**), American Geophysical Union, Washington, DC, December, 2024.

Seminars

- 2023 Fernández, M.M., B. Lockwood, M.W. Kaye, M.M. Kreye, **C.A. Scott**. 2023. More carbon sequestration or less carbon release: Climate-smart forestry strategies and forest carbon additionality in Pennsylvania (M. Fernández, first-place poster winner), *17th Annual Postdoctoral Research Symposium*, Penn State University, December 8, 2023.
- 2021 + Water-energy-food nexus: From concept to infrastructure resilience. *Water Resources-Environmental Engineering Kappe Seminar*, Penn State University, Oct. 13, 2021.
- 2011 + Strengthening resilience of transboundary riparian corridors, *School of Natural Resources & Environment Seminar Series*, University of Arizona, May 6, 2011.
- 2009 + Urban heat island and residential outdoor water demand. *Water Resources Research Center Seminar Series*, University of Arizona, October 21, 2009.
- 2008 + The United States – Mexico Transboundary Aquifer Assessment Program. *Water Resources Research Center Seminar Series*, University of Arizona, December 8, 2008.
- 2007 + The water-energy nexus in Mexico: groundwater sustainability along the border with the United States. *Departmental Seminar Series (Hydrology & Water Resources)*, University of Arizona, February 21, 2007.
- 2007 + Wastewater use in irrigated agriculture: closing the rural-urban-rural water loop. *Departmental Seminar Series (Soil, Water & Environmental Science)*, University of Arizona, February 19, 2007.

Webinars

- 2024 Overview: WEF Nexus for Collaborative Learning School - Chesapeake Bay, SustainFood AccelNet, February 28, 2024.
- 2021 + Ecosystem water insecurity: Reflections on freshwater nutrient transport (*via Zoom*), Particles in the Americas Webinar Series, CONICET Bahía Blanca, Argentina, Dec. 13, 2021.
- 2020 + Water-energy-food nexus: Adaptive response to regional Hindu Kush Himalayan challenges, *Himalayan University Consortium*. I developed, led and was one of 12 speakers from 5 continents for this fully online course (*via Zoom*) for 40 young and mid-career participants from 16 countries, coordinated by International Centre for Integrated Mountain Development, May 19 – June 4, 2020, <https://www.icimod.org/huc/webinar/water-energy-food-nexus-adaptive-response-to-regional-hindu-kush-himalayan-challenges/>
- 2020 + Implicaciones de COVID-19 para el agua, las aguas residuales y el reuso del agua (*via Zoom*), Webinar “Detección y presencia de COVID-19 en aguas residuales,” Departamento General del Agua, Mendoza, Argentina, May 14, 2020.
- 2019 + The Global Water Security Challenge, International Water Resources Association Webinar, <https://www.youtube.com/watch?v=V6zyk1-wZQo&feature=youtu.be>, April 16, 2019.

Other Extension and Engagement with Policy Makers (+ = invited)

- 2024 + Transdisciplinary WEF+ Science and Practice Networks SustainFood as a USA-Africa-Europe SDG 17 “Partnership for the Goals,” Regional Summit on Accelerating Progress Towards Achieving the SDGs through Broadening the Water-Energy-Food (WEF+) Nexus, Water Research Commission, Pretoria, South Africa, August 19-20, 2024.
- 2024 + Member, Advisory Committee, Pennsylvania Wildlife Action Plan (*via Zoom*), July 26, 2024.
- 2024 + Water-energy-food nexus for public policy, Retos y Apuestas de Investigación para la transición energética, el ordenamiento territorial alrededor del agua y el derecho humano a la alimentación: Oportunidades para la aplicación del enfoque Nexo Agua-Energía-Alimentos, Bogotá, Colombia, July 15, 2024.
- 2024 + Proposal writing: Best practices to secure funding for applied research and community development projects (*via Zoom*), One Million Leaders Asia (OMLAS) Fellowship Program, Next Leaders’ Initiative for Sustainability, Tokyo, Japan, June 20-21, 2024.
- 2024 Convener, Networking of Nexus Networks Workshop, Smithsonian Environmental Research Center, Edgewater, Maryland, June 14, 2024.
- 2024 Co-host, Pennsylvania - Chesapeake Bay Policy Meeting, Pennsylvania Department of Agriculture, Harrisburg, June 10, 2024.
- 2024 Lead organizer, Chesapeake Bay Collaborative Learning School, Sustainable Food Systems through Water-Energy- Food Nexus Networking - Lead coordinator for 2-week Extension program with farmers, extension agents, local and state governments, with 30 international early-career researchers and faculty, Pennsylvania and Maryland, June 1-14, 2024.
- 2024 + Headwaters case examples: Pennsylvania and Arizona, A research network for the resilience of headwater systems and water availability for downstream communities across the Americas, Research Cooperative Network, Coupled Natural and Human Systems (RCN-CNH) final partners meeting, University of New Mexico, May 1-6, 2024.
- 2024 + From policy translation and science-policy dialogue to evidence-informed policy formulation for climate change mitigation and adaptation (*via Zoom recording*), Himalayan University Consortium, Steering Committee Meeting, International Centre for Integrated Mountain Development, Kathmandu, Nepal, April 18-19, 2024, <https://huc-hkh.org/>.
- 2024 + La biodiversidad como cuarto eje del nexus agua-energía-alimentos: ecosistemas resguardan seguridad humana, climática y planetaria (*via Zoom*), Conexión Viva: agua, biodiversidad y alimentos, World Wildlife Fund, Colombia, April 5, 2024, https://wwf.panda.org/wwf_offices/colombia/.
- 2024 + Shared environmental challenges, divergent national and state policies: The US-Mexico binational resource governance bind, The Changing Rural Southwest, 10th Annual Eccles Family Rural West Conference, Bill Lane Center for the American West, Stanford University, and College of Liberal Arts and Sciences, Arizona State University, March 27, 2024, <https://west.stanford.edu/events/tenth-annual-eccles-family-rural-west-conference>.
- 2024 + Climate Change and Food Security (*via Zoom*), US Department of State and Institute for International Education, Gilman Foreign Policy in Focus: Global Food Security, Feb. 23, 2024, <https://www.gilman scholarship.org/program/gilman-foreign-policy-in-focus/>.
- 2024 Member, *Latinx Agricultural Network (LAN)*, Penn State College of Agriculture Community of Practice, <https://agsci.psu.edu/diversity/latinx-agricultural-network>.
- 2023 + Member, *Globalizing Extension Innovation Network*, Connect Extension, <https://connect.extension.org/g/globalizing-extension-innovation-network>.

- 2023 + Solar Irrigation for Agricultural Resilience in South Asia (SoLAR) - Lead evaluator for Swiss Development Cooperation project, farmer field visits, project meetings with irrigation and energy sector officials, state and national authorities in India and Bangladesh (and virtual meetings with Nepal and Pakistan), July 22 – August 8, 2023, <https://solar.iwmi.org/>.
- 2023 US-Africa Collaborative Learning School, Sustainable Food Systems through Water-Energy-Food Nexus Networking - Irrigation expert for 2-week Extension program with farmers, local agricultural extension agents, district agencies, and national member of Parliament with 30 international students and faculty, Buikwe, Jinja, and Kampala, Uganda, July 10-21, 2023.
- 2023 + Crossing boundaries: United States – Mexico partnerships for water, energy, and food security, Bill Lane Center for the American West, Stanford University, May 12, 2023.
- 2023 + Developing a winning proposal for applied research and community development: Tips and tricks of the trade (*via Zoom*), One Million Leaders Asia (OMLAS) Fellowship Program, Next Leaders' Initiative for Sustainability, Tokyo, Japan, May 7, 2023.
- 2023 + Water-energy-food nexus: Origins, current status, and future prospects, Stockholm Environment Institute – Latin America Center, Bogotá, Colombia, March 7, 2023.
- 2022 + Water resources in the Himalayas: Links to energy, food, and ecosystem services under climate change, Ugyen Wangchuck Institute for Conservation and Environment, Bhutan, November 16, 2022.
- 2022 Local Government Advisory Committee, Chesapeake Bay Program, Shepherdstown, WV, Sept. 29, 2022.
- 2022 Moderator, Water-energy-food nexus short course and stakeholder workshop, Americas WEF Nexus Alliance, Bogotá, Colombia, July 14-19, 2022.
- 2022 + Pursuing Water, Energy and Food Security in the Central Andes of Argentina, CONICET, Mendoza, May 29, 2022.
- 2022 + (*Virtual meeting*) Energy Access Ecosystem, Chitral and Hunza Districts, Pakistan. Renewable Energy and Energy Efficiency Capability for the Hindu Kush Himalaya, stakeholder meeting, Feb. 25, 2022.
- 2022 Americas Water-Energy-Food Nexus Alliance development, meetings with Colombian Ministries of Science and Environment, Bogotá Mayor's Environmental Secretary, Bogotá Water Utility, Feb. 2-6, 2022.
- 2022 + Sustainability Partnerships in the US-Mexico Drylands Region – Release of Binational Consensus Study, US National Academy of Science, Engineering, and Medicine, and Mexican Academy of Science, Jan. 19, 2022.
- 2021 + Basin Master-planning: Science-policy dialogues and water-energy-food nexus dimensions (*via Zoom*), Unpacking the Blue Peace Masterplan, Geneva Water Hub Graduate Institute, Université de Genève, Switzerland, Dec. 14, 2021.
- 2021 (*Virtual meeting*) Institute for Water Resources, US Army Corps of Engineers International Center for Integrated Water Resources Management (ICIWaRM-UNESCO), Dec. 8, 2021.
- 2021 + (*Virtual meeting*) Pennsylvania Department of Agriculture, introduction as Goddard Chair, Nov. 8, 2021.
- 2021 + Irrigation efficiency and water security: Promises, pitfalls and paradoxes (with Bruce Lankford, Univ. East Anglia), Water Insights Seminar, Penn State University, Nov. 2, 2021.

- 2021 + El desafío de la readaptación de la energía hidroeléctrica: políticas climáticas y transiciones energéticas (The hydropower readaptation challenge: Climate policy and energy transitions), IRD Bolivia, Oct. 2021.
- 2021 + (*Virtual meeting*) Pennsylvania Forest Products Association/College Leadership Meeting, introduction as Goddard Chair, Oct. 26, 2021.
- 2021 + Climate-smart agriculture, Penn State Agricultural Council meeting, introduction as Goddard Chair, Oct. 14, 2021.
- 2021 + Discussant: Prospects for Energy Cooperation in South Asia (S. Krishnaswamy). Center for Environment Climate Change & Sustainable Development, Impact and Policy Research Institute, New Delhi, Oct. 4, 2021. <https://www.youtube.com/watch?v=3I1Ua5AiaI0>, <https://www.impriindia.com/event/prospects-for-energy-cooperation-in-south-asia/>.
- 2021 (*Virtual meeting and introduction to Secretary*), Pennsylvania Department of Conservation and Natural Resources, College of Agricultural Sciences, Penn State University, introduction as Goddard Chair Aug. 31, 2021.
- 2020 Extreme Event Facilitator Certification Program (*via Zoom*), National Academies of Science, LabX, <https://labx.org/extreme-event>, December 8-22, 2020.
- 2020 + US-Mexico Border Solutions Alliance, *Data-Driven Discovery at the US-Mexico Border*, convocation of U.S. and Mexican universities, federal agencies and NGOs, held at National Academy of Science, Engineering and Medicine, Washington DC, Feb. 6, 2020.
- 2019 Energy Development and Indigenous Lands: Divisions, Synergies, and Opportunities for Native Nations, Association for Conflict Resolution, Tucson AZ, September 18-21, 2019.
- 2019 + Outdoor Recreation Summit of Tribal Leaders, Office of Economic Development and International Trade, Denver CO, June 17, 2019
- 2018 + Expert opinion for General Accountability Office on potential impacts of climate change on drinking water and wastewater infrastructure, via telephone, December 10, 2018.
- 2018 + Science-policy dialogues for decision support: Binational United States – Mexico arid region sustainability, III Encuentro – Procesos de Soporte a la Decisión para la Gestión Participativa del Agua, Bogotá, Colombia, Oct. 25-26- 2018.
- 2018 + “Science diplomacy in the Americas,” meeting to recognize Dr. Román Macaya (departing Ambassador of Costa Rica to the United States), US Congress, Washington, DC, July 11, 2018.
- 2018 + Resource person: “Science-policy engagement in the arid Americas,” Conference of Parties, Inter-American Institute for Global Change Research (meeting of 19 countries’ external affairs ministries and national science foundations), Antigua, Guatemala, June 19-22, 2018.
- 2018 + Resource person: “Mexico’s water reserves,” EcoAmericas interview, June 20, 2018.
- 2018 Coordinator: “Fracking – water resource impacts and regulation,” e-workshop with Departamento General de Irrigación provincial water department, Mendoza, Argentina with experts from Spain, UK, Texas, June 4, 2018.
- 2018 + Briefing via teleconference on US – Mexico Transboundary Drylands, meeting of Presidents of US and Mexican National Academies of Science, Mexico City, February 15, 2018.
- 2017 + Chair: “Advancing Sustainability of US – Mexico Transboundary Drylands,” meeting with Mexican Senate Committee Chairs on Climate Change, Science and Technology, and Mexico-US Relations, Mexico City, November 28, 2017.

- 2017 + Session moderator: “Science Diplomacy, Climate Change and Water Sustainability Challenges for the Americas,” AAAS and University of Arizona, February 24, 2017.
- 2017 + Knowledge Community, National Mission for Clean Ganga, Ministry of Environment and Forests, Government of India, continuing online forum.
- 2016 Project lead investigator, workshop on research-based policy recommendations: Irrigation-hydropower nexus in Upper Ganges Basin; Uttarakhand State administration, hydropower, irrigation, watershed development departments, NGOs; Dehra Dun, India, November 11, 2016.
- 2016 Co-organizer, workshop with Mendoza Irrigation (and Water Resources) Department, Argentina. Decisiones estratégicas en la gestión de la demanda (Strategic decision-making for water demand management), Mendoza, August 3-6, 2016.
- 2015 Coordination with Mendoza Irrigation (and Water Resources) Department, Argentina; Maipo Basin Adaptation Plan, Chile; Irrigation and water users associations, Peru; National Water Commission, Mexico – as part of AQUASEC Center of Excellence in Water Security.
- 2014 + Red AQUASEC de seguridad hídrica (AQUASEC water security network), *Desde lo global a lo local: gobernanza sustentable de los recursos hídricos para América Latina y el Caribe (From global to local: sustainable water resource governance for Latin America and the Caribbean)*, Earth Systems Governance workshop, Santiago, Chile, May 5-8, 2014.
- 2014 + Mapeo de actores institucionales para la adaptación en la cuenca del río Maipo (Hydroinstitutional mapping for Maipo basin adaptation), *MAPA: Maipo Plan de Adaptación (Maipo Adaptation Plan)*, training workshop, Centro de Cambio Global, Santiago, Chile, May 4-5, 2014.
- 2014 + *Resiliencia de cabeceras de cuencas andinas frente al cambio global (Strengthening resilience of Andean river basin headwaters facing global change)*, Lima and Cajamarca, Peru, April 3-9, 2014.
- 2014 + Water management capacity building of professionals in MWAR-LAC and the Lloyd's Register Foundation-International Water Security Network, *Managing Water Resources in Arid and Semiarid zones of Latin America (MWAR)*, Montevideo, Uruguay (remote presentation via Skype), http://www.cazalac.org/mwar_lac/index.php?id=63, February 3-4, 2014.
- 2013 + Adaptación a la sequía (Drought adaptation), Water and agriculture planning committee, General Irrigation Department (invited but I requested to present via Skype and YouTube http://youtu.be/Qq8s_QUEP3U), Mendoza, Argentina, October 31 – November 1, 2013.
- 2013 + Training coordinator and project leader, *Adaptive water-energy management in the arid Americas*, for 25 early- and mid-career professionals from across the Americas, with funding support from NSF, La Serena, Chile, June 24 - July 3, 2013.
- 2013 + Scenario planning and infrastructure for water-scarcity and climate-change adaptation, Provincial Irrigation Department with funding support from CONICET (Argentinian science foundation), Mendoza, Argentina, May 23-26, 2013.
- 2013 + El diálogo con las comunidades locales (Dialogue with local stakeholders), *Integración de conocimientos para la adaptación al cambio global: principios y herramientas (Knowledge synthesis for global-change adaptation: principles and tools)*, Universidad Nacional Cuyo, Mendoza, Argentina, May 27 – June 1, 2013.
- 2012 + Direct delivery of power subsidy to rural areas: India case study, Energy Sector Management Assistance Program (ESMAP) and South Asia Energy Program, provided review for study commissioned by World Bank, workshop to discuss and disseminate findings to be held in New Delhi, India, 2013.

- 2012 + Training coordinator, *Adaptive management of water resources under climate change in vulnerable river basins*, for 20-25 early-career professionals from across the Americas, with funding support from US National Science Foundation, Inter-American Institute for Global Change Research, Flemish development aid, La Serena, Chile, October 8-17, 2012.
- 2012 Binational assessment of the Santa Cruz and San Pedro aquifers: Update of Arizona-Sonora collaboration under the US-Mexico Transboundary Aquifer Assessment Program (TAAP), *Arizona-Mexico Commission, Water Committee*, jointly hosted by Arizona and Sonora state departments of water resources, February 10, 2012.
- 2011 + Member, organizing committee, Border Energy Forum, Hermosillo, Sonora, Oct. 2012.
- 2011 + *Tendencias y sus patrones regionales en los caudales en México: Singularidades en un clima cambiante. Balance Hidrológico Regional*, (Trends and patterns in flows in Mexico: Features in a changing climate. Regional Hydrologic Balances – presented by Luis Brito with C. Scott as co-author), EUROCLIMA-Agua, Panama City, Panama.
- 2011 + Expert advice on science-policy engagement provided to Blue Earth Consultants on a strategic planning exercise for the Sonoran Institute, a U.S. - Mexico non-governmental organization operating within Mexico's Colorado River Delta.
- 2011 Hosted science-policy workshop *El Riesgo Climático y la Seguridad Hídrica en el Continente Americano (Climate Risk and Water Security in the Americas)*, for 45 researchers, agency managers, NGOs, and decision-makers from Chile, Argentina, Brazil, Mexico, Canada, and the U.S., held in San José del Cabo, Baja California Sur, México, February 27 – March 3, 2011.
- 2011 + Member of Binational Technical Advisory Group on US-Mexico transboundary aquifer assessment, including drafting binational agreement, *International Boundary and Water Commission* (and *Comisión Internacional de Límites y Aguas*), El Paso, Texas, March 2009 - (continuing activity).
- 2010 + Provided input via my research team members to *EPA Water Reuse Guidelines Update Workshop*, Savannah, Georgia, November 18, 2010.
- 2010 Planning workshop: *Arid Cities in Changing Climates: Urban Land and Water Use in the Desert Southwest*, Tucson, Arizona, December 3, 2010.
- 2010 + Water reuse, growth and climate-resilient cities, *Decision-Makers Platform – Managing Water in the Urban-Rural Interface for Climate Change Resilient Cities*, Addis Ababa, Ethiopia, August 5, 2010.
- 2010 Fourth workshop: *Agua y Clima: Gestión Urbana del Agua, Cambio Climático y Estrategias Adaptativas para la Región de Sonora y Arizona* (IV Binational Water and Climate Workshop— Urban Water Management, Climate Change, and Adaptive Strategies for the Arizona-Sonora Region). Organizing committee member of continuing series of stakeholder workshops with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, Univ. Arizona. Hermosillo, Son., May 7, 2010.
- 2009 Optimization of conjunctive water supply in high growth water scarce regions (K. Lansey, C.A. Scott, C. Choi). *Western Coalition of Arid States, 2009 Fall Conference*, Tucson, AZ, October 28-30, 2009.
- 2009 Third workshop: *Agua, Variabilidad y Cambio Climático en la Costa Oeste de América del Norte* (Climate Change and Variability in Western North America). Organizing committee member of continuing series of stakeholder workshops with Comisión Nacional del Agua, National

- Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Puerto Peñasco, Sonora, Mexico, October 2, 2009.
- 2009 Second workshop: *Los Flujos de Información Climática en la Costa Oeste de América del Norte* (Climate Information Flows in Western North America). Co-organizer of continuing series of stakeholder workshops with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Jiutepec, Morelos, Mexico, July 22, 2009.
- 2009 + Expert opinion for General Accountability Office “Energy and Water: Preliminary Observations on the Links between Water and Biofuels and Electricity Production” report, July 9, 2009.
- 2009 + Electricity for water and wastewater service in Arizona (J.H. Hoover, C.A. Scott). *Advanced Water Education Workshop for Valley Educators*, Phoenix, Az., June 16, 2009.
- 2009 U.S.-Mexico Transboundary Aquifer Assessment Program – update, *Arizona-Mexico Commission, Water Committee*, jointly hosted by Arizona and Sonora state departments of water resources, Hermosillo, Son. (Dec. 4, 2009) and Scottsdale, AZ, (June 5, 2009).
- 2009 Researcher-Managers Workshop on Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region. Workshop organizer and co-host with Arizona Water Institute, Tucson, Arizona, June 1, 2009.
- 2009 + Information provided to US National Committee for UNESCO’s International Hydrology Program (6th Meeting) on developing links between US-Mexico Transboundary Aquifer Assessment Program and UNESCO’s Internationally Shared Aquifer Resources Management Program, by telephone, May 11, 2009.
- 2009 + US-Mexico transboundary aquifers: status of Santa Cruz and San Pedro assessments, *International Boundary and Water Commission* (and *Comisión Internacional de Límites y Aguas*), El Paso, March 11, 2009.
- 2008 + Water, energy, and urban growth in the desert. *Sustainable Tucson Forum*, Tucson, November 12, 2008.
- 2008 *Los Flujos de Información Climática en la Costa Oeste de América del Norte* (Climate Information Flows in Western North America). Co-organizer of stakeholder workshop with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Hermosillo, Mexico, November 7, 2008.
- 2008 + Water and energy sustainability with rapid growth in the Arizona-Sonora border region. Lead talk on water resources at *Arizona Society of Civil Engineers Annual Section Meeting*, Tucson, AZ, September 25, 2008.
- 2008 + Water and renewable energy with rapid growth in the Arizona-Sonora border region. *Arizona-Mexico Commission, Water Committee*, Phoenix, 20-21 June 2008.
- 2008 + Water resource demands in the Arizona-Sonora border region. *Border Governors Water Working Group*, Climate Assessment for the Southwest, Institute for the Study of Planet Earth, University of Arizona, 2-3 April 2008.
- 2008 + Climate caps on the substitutability of water and energy for growth in the Southwest and Mexico. *Workshop on Climate Change Adaptation for Water Managers*, Biosphere 2, Oracle, Arizona, 5 February 2008.

- 2006 + The dilemma of water management ‘regionalization’ in Mexico under centralized resource allocation. *Workshop on Integrated Water Resources Management in Latin America*, Rio de Janeiro, 9-11 January 2006.
- 2006 Recycling realities: managing health risks to make wastewater an asset. *Water Policy Brief No. 17*. International Water Management Institute, Colombo, Sri Lanka.
- 2004 + Strategic challenges in India’s water management, *Green Business Council*, Federation of Indian Chambers of Commerce and Industry, Hyderabad, 17 June 2004.
- 2003 The energy-irrigation nexus. *Water Policy Brief No. 10*. International Water Management Institute, Colombo, Sri Lanka.
- 2003 Confronting the realities of wastewater use in agriculture. *Water Policy Brief No. 9*. International Water Management Institute, Colombo, Sri Lanka.
- 2002 Energy Pricing and Supply for Groundwater Demand Management: Lessons from Mexican Agriculture, *Forward-Thinking Policies for Groundwater Management: Energy, Water Resources, and Economic Approaches*, IWMI, Indian Council for Agricultural Research (ICAR) and Colombo Plan Secretariat, New Delhi, 2 - 6 September 2002.
- 2001 Visualizing the Invisible: Harnessing Local Initiative for Conjunctive Management of Surface and Groundwater, *Indian Groundwater Policy Workshop*, ICAR and IWMI, Karnal, Haryana, 6-8 November 2001.
- 2000 *Asignación, Productividad y Manejo de Recursos Hídricos en Cuencas* (Allocation, Productivity and Management of Basin Water Resources), hosted workshop by International Water Management Institute, Guanajuato, Mexico, 7-9 May 2000.
- 1999 + Water Scarcity and Food Production Assessments using PODIUM (the Policy Dialogue Model), *Consultation on the Americas Vision on Water for Food* (lead-up to World Water Forum, The Hague), McGill University, Montreal, 30 June – 2 July 1999.

PROFESSIONAL MEMBERSHIPS AND BOARDS

- 2024 - Trustee, Chesapeake Research Consortium, <https://chesapeake.org/>
- 2019-22 Chair, Sustainability Partnerships in the US-Mexico Drylands Region: A Binational Consensus Study, US National Academy of Science, Engineering, and Medicine, and Mexican Academy of Science
- 2017-19 Chair, Planning Committee for Binational Workshop on Advancing Sustainability of US-Mexico Drylands Region, US National Academy of Science, Engineering, and Medicine, and Mexican Academy of Science
- 2017 - Editorial Board, *Desenvolvimento e Meio Ambiente (Development and Environment)*, <http://revistas.ufpr.br/made/about/editorialTeam>
- 2016 - Editor, water governance section, *Water Security*, Elsevier
- 2013-17 External Advisory Committee, Energize New Mexico, Experimental Program to Stimulate Competitive Research (with National Science Foundation support)
- 2012 - Member, *American Association for the Advancement of Science*
- 2012-14 Editorial Board, *Water Quality and Ecology*, Elsevier
- 2012 - Editorial Board, *Agua y Territorio*, Universidad de Jaén, Spain
- 2010-21 Delegate, *Universities Council on Water Resources*
- 2009-11 Editorial Board, *Journal of Water and Health*
- 2006 - Publications Committee (Chair 2009-12), *International Water Resources Association*

- 2006 - Editorial Board, *Water International*
- 2006 - Member, *Association of American Geographers*
- 2000 - Member, *International Water Resources Association*
- 1996 - Registered Professional Engineer (P.E.) – New York State
- 1996 - Member, *American Geophysical Union*

GRANT REVIEW

- 2024 National Science Foundation, Strengthening American Infrastructure, virtual proposal review
- 2024 Strategic New Initiative Program, Seed Grant, Penn State College of Agricultural Sciences
- 2023 Belize Seed Grants, Penn State Global
- 2023 Swiss Development Cooperation, project mid-term evaluation
- 2022 Research Council of Norway, proposal review
- 2020 National Science Foundation, Office of International Science and Engineering, virtual proposal review
- 2019 American Association for Advancement of Science, Panel convened for Research & Development Office, Kingdom of Saudi Arabia – review panel member
- 2019 National Science Foundation, Innovations at the Nexus of Food, Energy and Water Systems – review panel member
- 2019 National Science Foundation, fellowship program – virtual review panel member
- 2019 Kuwait Foundation for the Advancement of Science; proposal and progress report review, 2018, 2017, 2015
- 2017 Agence Nationale de la Recherche (ANR-France); graduate school and pre-proposal reviews, 2014
- 2016 Office of Research and Discovery, University of Arizona, pre-proposal review for Packard Fellowships for Science and Engineering.
- 2016 Qatar National Research Foundation; water/ climate adaptation proposal review, also 2015
- 2015-17 National Science Foundation, Geography and Spatial Sciences – review panel member
- 2015 University of Arizona – CONACYT and Haury Program in Environment & Social Justice – review panel member
- 2015 International Development Research Centre – Canada; Cities and Climate Change proposal review
- 2015 United Arab Emirates University; water in agriculture proposal review
- 2015 National Science Foundation, Dynamics of Coupled Natural-Human Systems – review panel member, also 2013, 2012 and 2011
- 2014 National Science Foundation; Science, Engineering, and Education for Sustainability (SEES) Fellows – review (virtual) panel
- 2014 NSF SEES – grant proposals reviewed
- 2013 NSF CAREER – grant proposal reviewed, also 2011
- 2012 World Bank, Energy Sector Management Assistance Program and South Asia Energy Program, “Direct delivery of power subsidy to rural areas: India case study” study review
https://www.esmap.org/sites/esmap.org/files/DocumentLibrary/SE4All-%20Direct%20Delivery%20of%20Power%20Subsidy%20to%20Agriculture%20in%20India_Optimized.pdf.

- 2012 Portuguese Foundation for Science and Technology (FCT), 3 grant proposals reviewed
- 2012 French National Research Agency (ANR), Facing Societal and Environmental Changes (SOC&ENV) Program (www.agence-nationale-recherche.fr/en/research-programmes/aap-en/facing-societal-and-environmental-changes-soc-env-2012/nc/).
- 2012 American Association for the Advancement of Science, New Mexico ESPSCoR (Experimental Programs to Stimulate Competitive Research) program review
- 2012 Netherlands Organisation for Scientific Research, China-Netherlands Joint Scientific Thematic Research Programme, Agriculture & Food: How to Feed the World? (http://www.nwo.nl/nwohome.nsf/pages/NWOA_7Q3RJS_Eng).
- 2012 National Science Foundation, Geography and Spatial Sciences (GSS) program – remote reviews
- 2012 University of Arizona, Hatch program grant review
- 2011 Research Councils UK, Natural Environment Research Council, ESPA Research Consortium – five-country grant proposal reviewed
- 2011 National Science Foundation, International Research Experience for Students (IRES) Program – grant proposal reviewed
- 2010 National Science Foundation, Chemical, Bioengineering, Environmental, & Transport Systems (CBET) Division – grant proposal reviewed
- 2009 National Oceanic and Atmospheric Administration, Sectoral Applications Research Program – review panel member
- 2009 National Science Foundation, Geography & Spatial Sciences Program – 2 proposals reviewed
- 2009 Wisconsin Sea Grant Institute, University of Wisconsin – grant proposal reviewed
- 2009 Institute of the Environment, University of Arizona – multiple grant proposals reviewed for 2009-2010 Faculty Exploratory Research Grant competition
- 2008 Water Sustainability Program, University of Arizona – multiple grant proposals review
- 2007 Swiss Research Fellow Partnership Program for Agriculture, Forestry, and Natural Resources – grant proposal reviewed
- 2007 NSF CAREER – grant proposal reviewed
- 2006 Challenge Program on Water and Food, Consultative Group for International Agricultural Research – multiple grant proposals reviewed

EDITORIAL AND JOURNAL REVIEW

<i>Agricultural Water Management</i>	2010
<i>Agriculture, Ecosystems & Environment</i>	2004
<i>Annals of the Association of American Geographers</i>	2009, 2012, 2015
<i>Applied Geography</i>	2012
<i>Atmósfera</i>	2009
<i>Bergham press (book review)</i>	2023
<i>Bloomsbury Academic Publishing (book manuscript)</i>	2014
<i>Boletín de Estudios Geográficos</i>	2021
<i>Cambridge University Press (book prospectus)</i>	2011, 2011, 2017, 2018, 2019
<i>Climate and Development</i>	2016, 2019
<i>Climate Research</i>	2013

<i>Climatic Change</i>	2013
<i>Cities</i>	2007
<i>Comprehensive Assessment - Water Mgmt for Agriculture</i>	2007
<i>Desenvolvimento e Meio Ambiente</i>	2013, 2014, 2019
<i>Earthscan (book prospectus)</i>	2011, 2011, 2012, 2013
<i>Earthscan (chapter)</i>	2012
<i>Earth System Dynamics</i>	2013
<i>Earth's Future</i>	2019
<i>Ecological Economics</i>	2020
<i>Ecology e³ Society</i>	2021, 2022
<i>Elsevier (book prospectus)</i>	2015, 2016, 2020, 2022
<i>Energy Policy</i>	2010, 2011
<i>Environment and Planning C</i>	2009
<i>Environment, Development, and Sustainability</i>	2006
<i>Environmental Management</i>	2009, 2012
<i>Environmental Modeling and Assessment</i>	2007, 2008
<i>Environmental Politics</i>	2015
<i>Environmental Research Letters</i>	2012, 2013 (2), 2015 (2)
<i>Environmental Science and Policy</i>	2016, 2024
<i>EPA Water Reuse</i>	2004
<i>Frontiers in Water</i>	2023
<i>Geoforum</i>	2012
<i>Geografiska Annaler Series B</i>	2012
<i>Geographical Journal, The</i>	2007, 2010
<i>Globalizations</i>	2014
<i>Global Environmental Change</i>	2015, 2017, 2018
<i>Human Ecology</i>	2012
<i>Hydrogeology Journal</i>	2005, 2008, 2010
<i>Hydrology and Earth Systems Science</i>	2013, 2014, 2015, 2017
<i>IGI Global, eEditorial Discovery</i>	2024
<i>India Review</i>	2023
<i>International Journal of Climatology</i>	2012
<i>International Journal of River Basin Management</i>	2012
<i>International Journal of Water Resources Development</i>	2014, 2015, 2016, 2017, 2024
<i>International Journal of Water</i>	2008
<i>Irrigation and Drainage Journal</i>	2011
<i>Journal for Transdisciplinary Research</i>	2008
<i>Journal of American Water Resources Association</i>	2010
<i>Journal of Environmental Studies and Sciences</i>	2024
<i>Journal of Environmental Engineering</i>	2011
<i>Journal of Environment and Development</i>	2009
<i>Journal of Hydrology</i>	2011, 2014, 2017
<i>Journal of Irrigation e³ Drainage Engineering</i>	2002, 2004
<i>Journal of Planning Education and Research</i>	2009
<i>Mountain Research e³ Development</i>	2002
<i>National Climate Assessment</i>	2011

<i>Natural Resources Forum</i>	2008
<i>Nature Energy</i>	2017
<i>Nature Geoscience</i>	2012
<i>Nature Sustainability</i>	2022
<i>One Earth</i>	2019
<i>Oxford University Press (book prospectus)</i>	2011, 2011
<i>Paddy & Water Environment</i>	2007
<i>Pearson – Prentice Hall (book prospectus)</i>	2012
<i>Policy & Society</i>	2016
<i>Professional Geographer, The</i>	2007, 2009, 2010, 2019
<i>Región y Sociedad</i>	2008
<i>Regional Climate Forum (abstracts)</i>	2008
<i>Resources for the Future Press (book manuscript)</i>	2007
<i>Resources, Conservation & Recycling</i>	2008
<i>Routledge (book prospectus)</i>	2012, 2013, 2014, 2015, 2019
<i>Southwest Climate Assessment (chapter)</i>	2012
<i>Springer (book prospectus/ chapter)</i>	2008, 2012, 2016
<i>U.S. Geological Survey, Circular</i>	2009
<i>Water Alternatives</i>	2009, 2014, 2015, 2018
<i>Water International</i>	2003, 06, 07, 08, 10, 11, 12, 14, 15, 17, 21, 23, 24
<i>Water Policy</i>	2012, 2014, 2018
<i>Water Resources Management</i>	2002
<i>Water Resources Research</i>	2003, 08, 09, 10, 11, 14, 17
<i>Water Security Conference (abstracts)</i>	2011
<i>Water Security</i>	2019
<i>WIREs Climate Change</i>	2015, 2017
<i>WIREs Water</i>	2019, 2022
<i>World Development</i>	2007, 2008, 2009, 2014
<i>World Water Policy</i>	2023

SERVICE/OUTREACH (*recent*)

- 2024 - University Climate Change Coalition (UC3), Transdisciplinary Research Working Group
- 2024-25 Scientific Committee, Páramos Symposium, Bogotá, Colombia, June 3-4, 2025
- 2024 - Faculty mentor, six Institute of Energy & Environment co-funded junior faculty
- 2024 Promotion and tenure review (external), associate professor candidate.
- 2024 Promotion and tenure review (external), associate professor candidate.
- 2024 Guest editor, Early career scientist mentoring special issue, *Water International*
- 2023 Advisory Board, Intermountain West Transformation Network (NSF Sustainable Regional Systems Program), Richland, WA, May 22 – 25.
- 2023 Promotion and tenure review (external), associate professor candidate.
- 2023 Promotion and tenure review (external), associate professor candidate.
- 2022 Host for Prof. Alexis Racelis, Univ. Texas Rio Grande Valley, ESM Seminar, “Backwards

- design in ecosystems science and management: equitable engagement and intended outcomes as a starting point," Dec. 5, 2022.
- 2022 Promotion and tenure review (external), associate professor candidate.
- 2022 Promotion and tenure review (external), associate professor candidate.
- 2021 Promotion review (external), full professor candidate.
- 2021 Promotion and tenure review (external), associate professor candidate.
- 2021 Study review and online vetting workshop, World Bank (*Paani Bachao, Paisa Kamao - Save Water, Earn Money: Punjab Redefines the Electricity-Water-Agriculture Nexus*)
- 2020 Promotion review (external), full professor candidate.
- 2019 Promotion and tenure reviews (external), two associate professor candidates.
- 2018 Promotion and tenure reviews (external), two associate professor candidates.
- 2017 Promotion and tenure reviews (external), one each for professor and associate professor candidates.
- 2017, 15 Member, scientific committee, Congreso Internacional de Energía (International Energy Congress), Univ. Autónoma Metropolitana, Mexico.
- 2016 - Representative for Univ. of Arizona to Himalayan University Consortium (of which UA is an Associate Member).
- 2016 Promotion and tenure review (external) for associate professor candidate.
- 2014-16 Member of review panel for American Association for the Advancement of Science to strengthen Utah's *Innovative Urban Transitions and Arid-region Hydrosustainability* (iUTAH, EPSCoR), 2014 and 2016 site visits.
- 2014-17 Member, International Scientific Committee, XVI World Water Congress, International Water Resources Association, Cancún, Mexico, May 29 - June 2, 2017.
- 2015 Promotion and tenure reviews (external) for two associate professor candidates.
- 2015 Member, External Review, University of Idaho Interdisciplinary Water Resources Program.
- 2014 Director, University of Arizona – CONACYT/Mexico Consortium for Arizona - Mexico Arid Environments.
- 2014 Advisor, International Centre for Integrated Mountain Development - Himalayan Adaptation, Water & Resilience Program; Himalayan Monitoring & Assessment Program.
- 2014 Member, Research Advisory Council, Office for Research & Discovery, University of Arizona.
- 2013-16 Member of review panel for American Association for the Advancement of Science to strengthen Research on Adaptation to Climate Change (RACC) Center, the focus of Vermont's Experimental Program to Stimulate Competitive Research (EPSCoR), 2013, 2014, and 2016 site visits (2014-16 included review of North East Water Resources Network – Vermont, Rhode Island, and Delaware).
- 2014 Reviewer for student paper awards, Association of American Geographers.
- 2013 Member of Americas regional advisory committee, Earth Systems Governance initiative.
- 2013 Promotion review (external) for associate professor candidate.
- 2013 Review Editor, National Climate Assessment (Water-Energy-Land chapter).

- 2012 Reviewer for India water-energy study, World Bank.
- 2012 Member of review panel for American Association for the Advancement of Science to evaluate New Mexico's Experimental Program to Stimulate Competitive Research (EPSCoR) Research Infrastructure Improvement (RII) proposals.
- 2012 Member, Science Advisory Committee, Symposium on Water Security, Risk and Society, Oxford University, Oxford, UK, April 16, 2012.
- 2012-15 Member, International Scientific Committee, XV World Water Congress (www.iwra.org/index.php?page=223), International Water Resources Association, Edinburgh, Scotland, May 25-29, 2015.
- 2011 Chair, International Scientific Committee, XIV World Water Congress (<https://www.iwra.org/congress/2011/en/index.php>), International Water Resources Association and Secretaria de Recursos Hídricos e Energéticos (Pernambuco), Porto de Galinhas, Brazil, September 25-29, 2011; raised \$42,000 for Congress.
- 2011-13 Provided review of nominations for MacArthur Fellowship and invited to nominate candidates for MacArthur Fellowship.
- 2011 Member, Scientific Program Committee, International Conference on "Groundwater Resources Management: Adaptation Measures to Water Scarcity - Science and Policy Responses," Irvine, California, Nov. 30 – Dec. 3, 2011.
- 2010-11 Faculty Advisor, Arizona Public Interest Research Group Student Chapter
- 2011 Coordinador, Recursos Hídricos Transfronterizos, VIII Congreso Nacional de Aguas Subterráneas, Asociación Geohidrológica Mexicana, (Chair, Transboundary Water Resources, VIII National Congress on Groundwater, Mexican Geohydrological Association), Querétaro, 14-17 November 2011.
- 2009 Coordinador, Recursos Hídricos Transfronterizos, VII Congreso Nacional de Aguas Subterráneas, Asociación Geohidrológica Mexicana, (Chair, Transboundary Water Resources, VII National Congress on Groundwater, Mexican Geohydrological Association), San Carlos, Sonora, 10-13 November 2009.
2009. Training session for the Iraq Summer Institute coordinated by the Center for Middle Eastern Studies, University of Arizona, August 4, 2009.
- 2009 - Thematic input to Canada -US-Mexico drought response meeting coordinated by University of Arizona, Institute of the Environment, Mexico City, February 2009.
- 2008 - Thematic input to Border Governors Water Working Group.
2008. Regional Climate Forum for Northwest Mexico and the Southwest United States, Ensenada, Mexico, April 2008 – organizing committee member.
- 2008 - International Center for Integrated Water Resources Management (UNESCO's new Category II Center) – provided thematic input to support bringing the science and research component to University of Arizona (Sustainability of Semi-Arid Hydrology and Riparian Areas – SAHRA).
2008. Training session for the Iraq Summer Institute coordinated by the Center for Middle Eastern Studies, University of Arizona, June 6, 2008.
- 2007 - Santa Cruz and San Pedro Transboundary Aquifer Assessment Program – member of binational technical committees.
2007. Salinity Management and Desalination Technology for Brackish Water Resources in the Arid West – executive committee member.

2007. “Water 101” meeting on water resource challenges at the invitation of Sen. Richard Miranda, Arizona State Senator and Leader of the State Hispanic Caucus.

UNIVERSITY AND DEPARTMENTAL COMMITTEES

- 2024 Committee Member, Strategic Planning, Dept. of Ecosystem Science & Management, Penn State University.
- 2024 Search Committee Member, Department Head and Professor, Dept. of Ecosystem Science & Management, Penn State University.
- 2024 Search Committee Member, Postdoctoral Scientist position (Computational Forest Ecology, Leites PI), Dept. of Ecosystem Science & Management, Penn State University.
- 2024 Search Committee Member, Postdoctoral Scientist position (WEF Nexus – Bioenergy, Jacobson PI), Dept. of Ecosystem Science & Management, Penn State University.
- 2023 - Committee Member (Soils/ Watersheds), Graduate Program Committee, Dept. of Ecosystem Science & Management, Penn State University.
- 2023 - Review Committee Member, Rock Ethics Institute Faculty Fellows Program (with Goddard Chair co-funding for three environmental policy and ethics fellows), 2024, 2025.
- 2023 - Member of Graduate Faculty, Transdisciplinary Research on Environment and Society (TREES), Penn State University.
- 2023 Chair, Faculty Search (Invasive Species Biology & Management), Dept. of Ecosystem Science & Management, Penn State University.
- 2023 Convenor, Environmental Policy Goddard Chair Group, Dept. of Ecosystem Science & Management, Penn State University, <https://ecosystems.psu.edu/research/labs/environmental-policy-goddard-chair-group>.
- 2022 - Chair, Awards Committee, Dept. of Ecosystem Science & Management, Penn State University.
- 2022 - Member, P&T Committee, Dept. of Ecosystem Science & Management, Penn State University.
- 2022-24 Member, Awards Committee, Institute of Energy and Environment, Penn State University.
- 2022 - Director, Americas Water-Energy-Food Nexus Center of Excellence, Penn State Global.
- 2021 - Diversity, Equity and Inclusion Committee member, Dept. of Ecosystem Science & Management, Penn State University.
- 2021-22 Vision and Planning Committee member, Dept. of Ecosystem Science & Management, Penn State University.
- 2020 Promotion and Tenure Committee member, for full professor candidate, School of Geography, Development & Environment, University of Arizona.
- 2019-21 Coordinating committee member, Net Zero Urban Water initiative, University of Arizona Strategic Plan.
- 2018 Promotion and Tenure Committee member, for full professor candidate, School of Natural Resources & Environment, University of Arizona.
- 2018-21 Coordinating committee member, Science, Health and Engineering Policy and Diplomacy Initiative (SPDI, <https://shepdiplomacy.arizona.edu/>), University of Arizona.
- 2018-21 Coordinator, My Arizona Lecture (once annually), School of Geography & Development.

- 2018-21 Coordinator and University of Arizona Representative, Alliance for Binational Border Communities (\$100,000 NSF support, led by University of California – San Diego, with University of Arizona, New Mexico State University, University of Texas – El Paso and San Antonio).
- 2018 Promotion and Tenure Committee member, for full professor candidate, School of Geography & Development, University of Arizona.
- 2017-18 Environmental Research Landscape Review; Research, Discovery & Innovation; University of Arizona, committee member.
- 2017-18 Search Committee, Director - Institute for Lesbian, Gay, Bisexual and Transgender Studies, University of Arizona, search committee chair.
- 2017-18 Search Committee, Environmental Public Health faculty position, College of Social & Behavioral Sciences, University of Arizona, search committee member.
- 2017 Review Committee, School of Geography & Development Promotion & Tenure Guidelines, committee chair.
- 2017-21 Steering Committee, Mexico Initiatives, University of Arizona – member.
- 2016-21 American Indian Studies (Graduate Interdisciplinary Program), University of Arizona, faculty member.
- 2016-21 Executive Committee - Water, Environmental and Energy Solutions (WEES), University of Arizona – member.
- 2016 Promotion and Tenure Committee, College of Social & Behavioral Sciences, University of Arizona.
- 2016 Faculty review panel, Honors College internal review for Fulbright U.S. Student Program applicants (also served in 2012).
- 2016 Committee member, third year review for assistant professor.
- 2015-17 School of Geography & Development, Annual Performance Review Committee member
- 2015-17 Center for Regional Food Studies, College of Social & Behavioral Sciences, Steering committee member.
- 2015-17 Office of Global Initiatives, Advisory Committee member.
- 2015-16 College of Social and Behavioral Sciences, Associate Dean – Research, search committee member.
- 2014-17 Office of Research & Discovery (Vice President for Research), Research Advisory Committee, member.
- 2014-20 Arid Lands Resource Sciences (Graduate Interdisciplinary PhD Program), University of Arizona, Executive Committee member.
- 2014 School of Geography & Development, Search Committee for Asst. Professor (Earth Systems Geographer), University of Arizona, chair.
- 2014 Committee member, third year review for assistant professor.
- 2014-21 Center for Climate Adaptation Science and Solutions (CCASS), University of Arizona, core team member.
- 2014-15 Carson Scholars program, Institute of the Environment, University of Arizona, mentor.
- 2014-17 Graduate Certificate in Water Policy, University of Arizona, coordinator.
- 2013-16 Faculty Advisory Committee – Inst. of Environment, University of Arizona, member.
- 2013-14 Committee chair, third year review for assistant professor.
- 2013-14 Member, Search Committee, Environmental Policy Coordinator, Udall Center for Studies in

Public Policy.

- 2012-13 Member, India working group, College of Social & Behavioral Sciences.
- 2012-13 School of Geography & Development Strategic Planning Ad Hoc Committee, University of Arizona, member.
- 2011-12 Member (acting Chair in spring 2011; member since 2006), Geography & Development Undergraduate Committee.
- 2010-11 Member, Masters in Environmental Management (proposed) – committee to guide program development.
- 2010-12 Executive Committee, Connecting Environmental Science and Decision-Making Certificate Program, University of Arizona – member of committee to guide program development.
- 2009-21 School of Natural Resources & Environment, University of Arizona – adjunct faculty member.
- 2009-21 Inst. of Environment, Masters in Environmental Management, committee member.
- 2008-21 Dept. of Soil, Water & Environmental Science, University of Arizona – adjunct faculty member.
- 2008-10 Center for Latin American Studies, University of Arizona – advisory board member.
- 2008-10 Re-Engineered Water and Retrofitted Distribution Systems (REWARDS) - working group member, University of Arizona departments of Soil, Water & Environmental Science; Chemical & Environmental Engineering; Civil Engineering; Agricultural & Biosystems Engineering.
- 2008-21 Water Resources & Policy Group (WRPG) – convener of graduate student working group [<http://udallcenter.arizona.edu/wrpg>].
- 2007-21 Udall Center Environmental Group – co-coordinator of seminar series.
- 2007-21 Dept. of Hydrology & Water Resources, Univ. Arizona – adjunct faculty member.
- 2006-21 Center for Latin American Studies, University of Arizona – affiliated faculty member.
- 2006-21 Arid Lands Resource Sciences Graduate Interdisciplinary Program, University of Arizona – faculty member.
- 2006-21 Global Change Graduate Interdisciplinary Program, Univ. Arizona – faculty member.
- 2006-21 Institute of the Environment (previously Institute for the Study of Planet Earth), University of Arizona – affiliated faculty member.

RECENT POSTDOCTORAL FELLOWS

- 2022- Margarita Fernández (PhD, Penn State University) – Forest carbon, Climate-smart forestry assessment and policy
- 2015-17 Benjamin Wilder (PhD, Univ. California, Riverside) – Biogeography, Arizona-Mexico arid environments
- 2015-17 Adriana Zúñiga Teran (PhD, Univ. Arizona, Arid Lands Resource Sciences) – Water security, arid Americas (jointly supervised with R. Varady, Udall Center for Studies in Public Policy)
- 2014-15 Rafael de Grenade (PhD, Univ. Arizona, Geography & Development) – Water-energy-food nexus, Peru, arid Americas (jointly supervised with R. Varady, Udall Center for Studies in Public Policy)

CURRENT STUDENTS AND ACCOMPLISHMENTS

(SGD = School of Geography & Development, Univ. Arizona; RA = research assistant/associate)

2023 - Abriti Moktan (PhD student, Forest Resources, Penn State University)

2022 - Tejal Shirsat (PhD student, Soil Science, Penn State University)

- Supported 2024 field work on Penn State Global Faculty Travel Award
- 2024 Graduate Exhibition, Physical Sciences and Mathematics Research Poster, 2nd Place

2019 - Padmendra Shrestha – UA SGD PhD student

- Graduate and Professional Student Council travel award
- Research assistant, ICIMOD Mountain Chair
- Co-author on peer-reviewed journal articles

Undergraduate student mentoring

2025 Logan Coombs - BS student, Forest Ecosystem Management, Penn State University

2023-24 Ava Klink - Honors BS student, Environmental Resource Management and Journalism, Penn State University

2021-23 Sol Ferrari - Energy Engineering undergraduate student, Penn State University

GRADUATE STUDENT COMMITTEE MEMBERSHIP

(GRD = Dept. Geography & Regional Development; SGD = School of Geography & Development; HWR = Dept. Hydrology & Water Resources, Univ. Arizona)

2024 - Melanie Jones (PhD student, Recreation, Park, and Tourism Management, Penn State University)

2022 - Ram Neupane (PhD student, Plant Pathology & International Agricultural Development, Penn State University)

2022 - Andrew Ross (MS student, Wildlife and Fisheries Sciences, Penn State University)

2022 - Paula Pinilla (external evaluator for PhD student, Universidad Bogotá Jorge Lozano Tadeo, Colombia)

2022 - Henry Amarocho-Daza (external evaluator for PhD student, Institute for Hydraulic Engineering IHE-Delft, The Netherlands)

2021 - José Julian Prieto (PhD student, Education Theory and Policy, Penn State University)

2021 - Praharsh Patel (PhD student; Energy, Environmental, and Food Economics; Penn State University)

2022-23 Randy Muñoz Azmat (external evaluator for PhD student, University of Zurich, Switzerland)

2021-22 Dhaarna (external evaluator for PhD student, Indian Institute of Technology – Roorkee, India)

2018 - Edward Chew (PhD student, Soil, Water and Environmental Science), Indigenous knowledge and water management resilience

2017-18 Subash Rai (external evaluator for PhD student, Indian Institute of Technology – Roorkee, India)

2016-18 Rachel Murray (PhD student, Arid Lands Resource Sciences), South Asia transboundary water – G. Garfin, chair

2015-18 Janaina Pasqual (PhD, Pontifical Catholic University of Paraná, Brazil)

2015-16 Jitender Taneja (MPhil, Monash University, South Africa)

2015 - Miguel Maya (PhD student, El Colegio de Sonora, Mexico)

2015-16 Cecilia Saldias (external evaluator for PhD student, Ghent University, Belgium)

- 2015-16 Yasmina Elshafei (external evaluator for PhD student, University of Western Australia)
- 2015-19 Saleh Ahmed (PhD, Arid Lands Resource Sciences), Bangladesh climate adaptation – T. Finan, chair
- 2015 - Elia Tapia (PhD student, Arid Lands Resource Sciences), US-Mexico transboundary aquifer assessment – S. Megdal, chair
- 2014-18 Melanie Oertel (PhD, Pontifical Catholic University of Chile) – F. Meza, chair
- 2014-16 Sophia Borgias (MA, SGD), Chile water governance – C. Bauer, chair.
- 2013-15 Roy Petrakis (MA, SGD), river basin remote sensing – W. van Leeuwen, chair.
- 2012-15 Aloah Pope (PhD, SNRE), social-ecological systems, US-Mexico - R. Gimblett, chair.
2014. Irene Farrow (MA, Latin American Studies), Peru watershed governance – M. Wilder, chair.
2014. Kelly Mott Lacroix (PhD, Arid Lands Resource Sciences), Arizona water management – S. Megdal, chair. Won 2nd place in the Central Arizona Project Student Paper Competition for her term-paper in my Spring 2011 GEOG696O seminar, “Arizona Water Management Along the Adaptive Cycle: What can the ebb of water governance teach us about future flows?”
2014. PennElys Droz (PhD, American Indian Studies), “Biocultural Engineering Design for Indigenous Community Resilience” – B. Colombi, chair.
2013. Stephen Amesbury (MS, Arid Lands Resource Sciences), thesis topic: riparian vegetation phenology in the San Pedro and Santa Cruz basins, Arizona – S. Yool, chair.
2013. Moira Hough (MS, School of Natural Resources & Environment), “Tracing Environmental Change from Plant Traits to Social-Ecological Systems on the San Pedro River” – M. Pavao-Zuckerman, chair.
2011. Robin Lewis (PhD, SGD), “Networked Knowledge(s): Forest Certification and the Politics of Expertise in Malaysia” – P. Robbins, chair.
2010. Jeff M. Banister (PhD, SGD), “Between Capture and Control: Fluviality and Geo-History in Mexico” – S. Marston, chair.
2010. Rolando Díaz Caravantes (PhD, SGD) – M. Wilder, chair.
2010. Evan Dick (MA, SGD), “Composting Toilets in Pima County, Arizona: Practices, Regulation, and Potential” – S. Moore, chair.
2008. Tobias Finke (MA, SGD) “Object-Oriented Classification to Map Impervious Surfaces for Hydrologic Models” – S. Yool and S. Moran, co-chairs.
2008. Derejeh Gultineh (MA, GRD) “Coalitions and Consensus Building in Portland, Oregon” – S. Moore, chair.
2008. Jennifer Bloxom (MA, Center for Latin American Studies) “Fueling the Appetite for Water: The Palm Oil Biofuel Industry in San Pedro Sula, Honduras” – S. Whiteford, chair.
- 2008 - Lissette De La Cruz (PhD candidate, HWR), dissertation topic: groundwater in the Rio Sonora basin, Mexico – T. Meixner, chair.
2007. George Saliba (MA, GRD) “Science, Collaboration, and Sustainability in the Upper San Pedro Basin” – K. Jacobs and K. Bailey, co-chairs.

PAST STUDENT SUPERVISEES AND ACCOMPLISHMENTS

- 2015-21 Tamee Albrecht – SGD PhD
- Assistant Professor, Colorado State University
 - Postdoc, Univ. Massachusetts – Amherst
 - Marshall Dissertation Fellowship
 - Babbitt Center Dissertation Fellowship
 - PEO Sisters Award
 - Expert Witness Training Academy, Mitchell Hamline School of Law, St. Paul, Minn., National Science Foundation

- Carson Scholar, 2017
 - Socio-Environmental Synthesis Graduate Student Workshop, 2016
 - Co-author on peer-reviewed journal articles
- 2015-21 Bokjin Roh – SGD PhD (co-supervised with Gregg Garfin)
- Assistant Research Professor, Sungkyunkwan Univ., S. Korea
- 2011-20 Ryan Lee (PhD, Arid Lands Resource Sciences):
- US Forest Service, Ecosystem Services Specialist (Southern Region, Cooperative Forestry - State, Private, and Tribal Forestry)
 - Dissertation topic: “Water management decisions’ impact on ecosystems and communities: case studies from riparian areas in the trans-boundary Sonoran desert, USA-Mexico.”
 - American Geophysical Union, 2012 Fall Meeting, San Francisco, Dec. 2012
 - UA Institute of the Environment, Grad Blitz, Tucson, Nov. 2012
 - IAI-NCAR Training Institute, Science-Policy Interface, Dominican Rep., Nov. 2012
 - UA Tinker Symposium, Tucson, Sept. 2012
 - UA Tinker Fellowship for research in Sonora, summer 2012
 - 2011-12 RA on Arid Land Resource Sciences Fellowship
 - 2012-14 RA on NSF CNH grant
- 2014-19 Arica Crootof (PhD, SGD)
- Associate Professor, Environmental Sciences, University of Montana Western, 2018-
 - Borlaug Fellowship, 2016-17, “Nepal’s Hydropower Boom and its Implications for Food Security: Challenges and opportunities at the intersection of food and energy production in the Gandaki River Basin”
 - Carson Scholar, 2016
 - Socio-Environmental Synthesis Grant Writing Workshop, 2015
- 2014-19 Yulia Peralta (MS, Arid Lands Resource Sciences)
- Science Diplomacy & Leadership Program, Consortium for Science, Policy & Outcomes, Washington, DC, June 21-30, 2015
 - Mexican National Council of Science & Technology (CONACyT) fellowship, 2015-18
- 2013-18 Bhuwan Thapa (PhD, SGD)
- Assistant Professor, Appalachian State University, 2022-
 - Postdoctoral Scientist, Indiana University; University of Missouri
 - Dissertation title “Adaptation to global change in farmer-managed irrigation systems of the Gandaki Basin in Nepal”
 - Climate & Society Graduate Fellows Program, 2014-15
 - Doctoral Fellowship, International Center for Integrated Mountain Development, Himalayan Adaptation, Water and Resilience (HI-AWARE) Program, 2015-18
- 2013-16 Austin Aslan – SGD PhD student
- Graduate Research Fellowship (GRFP), National Science Foundation, 2012-15
 - Contract with Random House for *Islands at the End of the World* trilogy, <http://www.randomhouse.com/book/228440/the-islands-at-the-end-of-the-world-by-austin-aslan>
 - Withdrew from graduate studies to pursue his career as a novelist, 2016

- 2013 - Julie Huigens – SGD Honors Undergraduate student, thesis topic “Santa Cruz River Basin Assessment”
- 2012-16 America N. Lutz-Ley (PhD, Arid Lands Resource Sciences)
- Associate Professor, El Colegio de Sonora, Hermosillo, Mexico, 2017 -
 - Post-doc, Udall Center for Studies in Public Policy, University of Arizona
 - Dissertation title “Human adaptation to social and environmental change in rural communities of the San Miguel watershed in arid northwest Mexico”
 - Carson-Haury Scholar, 2014-15 (with additional, special support for travel to participate in climate-change Conference of Parties meeting, Paris, France, Dec. 2015)
 - Fulbright scholarship 2012-15 for research on US-Mexico border watersheds
 - Mexican National Council of Science & Technology (CONACyT) fellowship, 2012-16 for Training High-level Human Resources in High-quality Graduate Programs Abroad.
 - Dissertation Improvement Grant, Global Change minor, University of Arizona, 2015.
 - 2nd place award, 2014 Central Arizona Project Award for Water Research, for “Institutional Frameworks for Managing Rural Groundwater in Arizona, U.S., and Sonora, Mexico.”
 - Research associate, 2012-15 on NSF-CNH project
 - Award to Best Interdisciplinary Talk. “Environmental GradBlitz”, Fall 2012. Institute of the Environment, University of Arizona. Talk title: “Social Distribution of Water in the Sonora River Basin”.
 - Scott C. & A. Lutz. 2013. The water-energy-climate nexus in Mexico’s agricultural use of groundwater. *IWA Water Wiki- Hot Topics*.
- 2010-16 Lily House-Peters (PhD, SGD)
- Associate Professor, Dept. of Geography, California State University – Long Beach, 2016 -
 - Dissertation title: Desert forests and flows: Riparian communities, climate adaptation and geopolitics in the Sonoran borderlands
 - Louise Foucar Marshall Foundation Graduate Fellowship, \$10,788, 2015.
 - Principal Investigator, “Strengthening Teamwork to Confront Socio-Ecological Challenges: Generating New Knowledge for Effective Action in the Americas”, \$19,974, Inter-American Institute for Global Change Research.
 - 2nd place award, 2015 Central Arizona Project Award for Water Research, for “Developing an Updated Multi-temporal Landcover Classification to Assess Riparian Conservation and Inform Decision-Making in the Upper San Pedro Watershed: A Classification and Regression Tree (CART) Model Approach.”
 - Fulbright, Mexico, “*Desert Forests & Flows: Riparian Communities, Climate Adaptation & Geopolitics in Sonora*,” \$15,000, 2013-2014.
 - P.E.O. Scholar Award, International Chapter P.E.O. Sisterhood, “*Governing Water Resources in the Arid US-Mexico Borderlands: Riparian Communities, Vulnerability, and Climate Adaptation in Sonora, Mexico*,” \$15,000, 2013-2014.
 - Water Sustainability Program (WSP) Fellowship, “*Scenario Planning for Future Water Demand in the Transboundary San Pedro Watershed: Incorporating Improved Spatial Data and Modeling*,” \$18,000, 2013-2014.
 - UA Social and Behavioral Sciences Research Institute (SBSRI) Dissertation Research Grant, “*Border flows: Managing River Resources in Drought-prone Ejido Communities in the Sonoran Borderlands*,” Spring 2013, \$1,000.
 - UA Tinker Fellowship for research in Sonora, “*Border Flows: Governing River Resources in Drought-prone Ejido Communities in the Sonoran Borderlands*,” 2013, \$550.
 - Herbert E. Carter Travel Award, \$600, 2013.

- NSF Pan-American Advanced Studies Institute scholarship recipient, summer 2012
 - UA/Biosphere 2 Science and Society Fellows Award, 2011-2012
 - UA Social and Behavioral Sciences Research Institute Summer Proposal Development Award, 2011
 - UA Institute of Environment Travel Award, 2011, 2012
 - UA Graduate and Professional Student Council (GPSC) Travel Award, 2011, 2012
 - Association of Pacific Coast Geographers (APCG) Women's Network Travel Grant, 2012
 - Association of Pacific Coast Geographers (APCG) Travel Grant, 2012
 - UA Water Sustainability Program Travel Grant, \$500
 - Student Poster Contest Winner, 2012 University of Arizona Graduate Interdisciplinary Programs Community Meeting, December 2012, \$100
- 2014-16 Megan Mills-Novoa (MA, SGD 2016)
- Graduate Research Fellowship (GRFP), National Science Foundation, 2015-18
 - Masters' thesis (C.A. Scott, chair, 2016): "Understanding Water Policy as Agricultural Policy: How IWRM Reform is Reshaping Agricultural Landscapes in Piura, Peru under Climate Change"
 - Borlaug Foundation summer workshop, 2016
 - Society of Women Geographers, Pruitt National Minority Fellowship, 2015-16
 - UA Tinker Fellowship for research in Peru, summer 2015
- 2014-16 Chloé Fandel (MS, Hydrology & Atmospheric Sciences)
- Graduate Research Fellowship (GRFP), National Science Foundation, 2016-19
 - NASA Space Grant Award, 2016-17
 - Sky School Graduate Fellowship, University of Arizona, 2015-16
 - Galileo Circle Scholarship, University of Arizona, 2015-16
 - Graduate Student Award for Teaching, Dept. Hydrology & Water Resources, 2015
- 2012-14 Lauren Herwehe (MA, SGD 2014)
- Masters' thesis (C.A. Scott, chair, 2014): "Science, social capital, and small-scale irrigated agriculture: Adapting to climate change in semi-arid northeast Brazil"
 - Foreign Language & Area Studies scholarship, Portuguese
 - UA Institute of Environment Travel Award, 2013
 - UA Tinker Fellowship for research in Brazil, summer 2013
 - NSF Pan-American Advanced Studies Institute scholarship recipient, summer 2013
 - UA Institute of Environment Travel Award, 2013
 - Asian Geography Specialty Group Travel Grant, 2013
- 2011-13 Katherine Curl (MA, SGD 2013)
- Masters' thesis (C.A. Scott, chair, 2013): "Water and Identity in the Yaqui Pueblos, Sonora, Mexico"
 - UA Tinker Field Research Grant for research in Sonora, summer 2012 - \$1,000
 - Peace Corps Coverdell Fellowship, University of Arizona, 2011-2013 - \$7,000
 - Distinguished Scholar at the University of Arizona James E. Rogers College of Law with a full tuition scholarship beginning fall 2013
 - Multiple publications, speaking engagements
- 2008-12 Kathryn Daily (MA, SGD 2012; Univ. Arizona staff degree program student)

- Masters' thesis (C.A. Scott, chair, 2012): "Attitudes, impediments and incentives influencing sustainable transitions to water harvesting in the Sierra Vista subwatershed, Arizona"
 - Program coordinator for the Univ. Arizona Cooperative Extension Cochise County Water Wise program.
 - Grant from Water Sustainability Program, Univ. Arizona for "Rainwater Harvesting Certificate Program and Demonstration Project", 2009-2010.
 - Grant from the Walton Foundation to develop a non-profit water conservation organization, 2012.
 - Promotion to Appointed Personnel, academic faculty position, Water Resources Coordinator, 2012 (supervising 5 staff positions)
- 2011 - Joni Northam (Undergraduate student in my Fall 2010 GEOG304 class) won Grand Prize in the Water Resources Research Center's Joe Gelt Student Writing Competition, and contest winner for the University of Arizona.
- 2010 - Carrie Tessmer (Undergraduate student SGD), co-author on **Scott, C.A.**, A. Browning-Aiken, K.J. Ormerod, R.G. Varady, C.D. Mogollon, C. Tessmer. 2011. Guidance on Links between Water Reclamation and Reuse and Regional Growth. WateReuse Research Foundation Report 06-016-1. WateReuse Research Foundation, Arlington Virginia. 67pp.
- 2009-11 Andrea Prichard (MA, SGD 2011)
- Co-authored Prichard, A.H., **C.A. Scott**. 2013. Interbasin water transfers at the U.S.-Mexico border city of Nogales, Sonora: Implications for aquifers and water security. *International Journal of Water Resources Development*.
 - Masters' thesis (C.A. Scott, chair, 2011): "Interbasin water transfers at the US-Mexico border city of Nogales, Sonora: implications for aquifers and water security"
 - UA Institute of Environment, Grad Research Blitz Award for Best Presentation
 - Rotary Ambassadorial Scholarship, Bolivia, 2012
 - Water, Energy and Environmental Solutions Workshop Award, Tucson, AZ 2011
 - Water Sustainability Program Travel Grant, Tucson, AZ 2011
 - Tinker Fellowship, Latin American Studies, Summer 2010
 - Partner University Fund, U.S. – France, Summer 2010
 - 2nd Place Prize, Central Arizona Project Student Paper Competition
- 2009-11 Tabitha Spence (MA, SGD 2011; 2009-2010 RA on my IWMI grant)
- Masters' thesis (C.A. Scott, chair, 2011): "Urban Growth, Wastewater Flows, and Adaptation by Downstream Farmers in Addis Ababa, Ethiopia"
 - Water Policy Certificate, 2011
 - Critical Language Fellowship (Urdu), Lucknow, India, Summer 2012
 - American Inst. for Advanced Studies Fellowship (Urdu), Lucknow India, Spr. 2012
 - Critical Language Fellowship (Urdu), Lucknow, India, Summer 2011
 - Field research in Addis Ababa, Ethiopia, Summer 2010
 - University of Arizona Diversity Fellowship, 2009-2010
 - Arizona, Israeli, and Palestinian Water Management and Policy Workshop Registration Grant, Sept 2009
- 2008-10 Kerri Jean Ormerod (MA, SGD 2010; 2009-2011 RA on my NSF RESIN grant)
- Co-authored multiple papers

- Multiple joint conference presentation
 - Masters' thesis (C.A. Scott, chair, 2010): "Drinking Highly Treated Wastewater: Public Trust in the Next Water Frontier"
 - 2009 Fall and 2010 Spring RA on WRF grant, 2009 Spring and 2010 Fall RA on NSF RESIN grant, 2008 RA on my Univ. Arizona startup
 - 2011 USEPA STAR award
 - 2011 Graduate Certificate in Water Policy
 - 2012 P.E.O. Scholar Award
 - 2010 grants from Institute of the Environment, Univ. Arizona and AAG Water Resources Specialty Group Travel Award to attend and present at the Annual Meetings of the Association of American Geographers, in Washington, DC, 14-18 April, 2010.
 - 2009 grants from Institute of the Environment, Univ. Arizona to attend and present at the Annual Meetings of the Association of American Geographers, in Las Vegas, Nevada, 22-27 March 2009.
 - 2008 Margaret Trussell Scholarship by the Association of Pacific Coast Geographers Women's Network (\$1000 to explore the social issues in water reuse planning and management within the context of urban growth).
 - grants from Institute for Study of Planet Earth and Graduate Student Council, Univ. Arizona to attend and present a paper at the workshop "Waste - The Social Context '08", Edmonton, Canada, 11-15 May 2008.
 - Water Sustainability Program, Univ. Arizona, summer 2008 RA grant.
- 2008-11 Zachary Sugg (PhD, SGD, completed 2016)
- Masters' thesis (C.A. Scott, chair, 2010): "Hydrologic Response to Pulse Storm Events During a Native to Exotic Transition in a Semiarid Grassland"
 - 2008-2010 – RA I negotiated with Agricultural Research Service on grant with Dr. Susan Moran)
 - American Meteorological Society Policy Colloquium, Washington DC, Summer 2010
 - Multiple conference presentations
- 2007-11 Eve Halper (PhD in 2011, SGD, 2007-08 RA on my USGS 104B grant)
- Co-author on multiple papers
 - PhD completed May 2011: "Residential outdoor water use in Tucson, Arizona: Geospatial, demographic and temporal perspectives"
 - Staff member, US Bureau of Reclamation (held this fulltime job while completing dissertation).
- 2010-2011 Anne Browning-Aiken, PhD (Univ. Arizona Senior Research Associate, staff member I supervised at Udall Center for Studies in Public Policy)
- Fulbright for visiting lecturer position at Univ. Federal de Santa Catarina, Brazil
 - Multiple project engagements including WateReuse Foundation grant on which I was PI.
- 2009-10 Octavio Ulloa (undergraduate advisee, 2009 summer intern)
- Summer Research Institute/McNair grant from University of Arizona Graduate Diversity Programs
 - Environmental Protection Scholarship from Arizona County Directors of Environmental Health Services Association
 - Americorps Volunteer, Austin, Texas
 - MA candidate, Geography, Univ. North Texas

- 2007-2009 Joseph Hoover (MA completed, GRD, 2008 RA on AWI grant)
- 2009 summer, research associate, Western Resource Analysts, Boulder, Colorado.
 - 2009, PhD candidate, Dept. Geography, University of Denver
 - 2009 MA completed, thesis title: “The Arizona Water-Energy Nexus: Electricity for Water and Wastewater Services”.
 - Grant from forum organizers to attend and present a paper at the Border Energy Forum XV, Monterrey, Mexico, 23-24 October 2008.
 - grant from Association of American Geographers, Water Resources Specialty Group to present paper at annual meeting, Las Vegas, 22-27 March 2009.
- 2008-2011 Prescott Vandervoet (U. Arizona Research Analyst position I supervised on TAAP grant)
- 2006 - Undergraduate students mentored since starting at the University of Arizona: John Holden (Spring 2009), Wesley Boisvert (Spring 2009), Carrie Tessmer (Spring 2009), Hans Hutchison (Spring 2010, Spring 2011), Luiz André Domingues (Spring 2010), Joni Northam (Spring 2010), Joseph Cuffari (Spring 2011), Audra Antczak (Spring 2011), Allie Wechsler (Spring 2012), Julie Huigens (Fall 2013), Alba Ramos (Summer 2014, 2015)
- 2004-05 Mattia Celio (Doctoral field research, (International Water Management Institute [IWMI]-India) – 2012 PhD from Water, Engineering, and Development Centre, Loughborough University, UK
- 2003-05 Trent Biggs (Postdoc, IWMI-India) – Professor (2017-present); Assoc. Professor (2011-17); Asst. Professor (2007-11), Dept. Geography, San Diego State University, California
- 2003-04 Shirish Sinha (Doctoral write-up, IWMI-India) – 2007 PhD from Twente University, Netherlands, currently Energy-Water Program Manager, WWF India, New Delhi.
- 2002-05 Jetske Bouma (Doctoral field research, IWMI-India) – 2007 PhD in Resource Economics, University of Tilburg, Netherlands
- 2002-05 Jeroen Ensink (Doctoral field research, IWMI-India) – 2007 PhD in Public Health, London School of Tropical Hygiene and Medicine, London, UK
- 2002 Carolyn Gerwe (Postdoc, IWMI-India) – 2003-05 Public Policy Fellow, American Association for Advancement of Science, Washington, DC
- 2000 Martin Bolaños, M.S. in Water Management, Colegio de Postgraduados, Mexico
- 1998 Francisco Flores, M.S. in Water Management, Colegio de Postgraduados, Mexico; subsequently PhD (2011) from Dept. Biological and Environmental Engineering, Cornell University, Ithaca, NY; staff of Stockholm Environment Institute (SEI), Davis, CA; CA Dept. of Water Resources
- 1997-2000 Philippus Wester (Graduate field research, IWMI-Mexico) – PhD (2008), Irrigation and Water Engineering (interdisciplinary, policy research group), Wageningen University; Assistant Professor (2008-2013), Wageningen University, Netherlands; Water Chief Scientist (2013-present), International Centre for Integrated Mountain Development

(ICIMOD), Nepal.