

DENIELLE M. PERRY, PhD
Water Resource Geographer
Curriculum Vitae
09/04/2021

School of Earth and Sustainability
PO BOX 4099 Northern Arizona University
Flagstaff, AZ 86011
(928) 523 - 0361 | Denielle.Perry@nau.edu
www.denielleperry.com

EDUCATION

Ph.D. Geography, University of Oregon, Eugene, Oregon, 2017
Dissertation: “The Uneven Geography of River Conservation in the U.S.: Insights from the Application of the Wild & Scenic Rivers Act.”
Chair: Alexander B. Murphy

M.S. Geography, University of Nevada, Reno, Reno, Nevada, 2010
Thesis: Costa Rica and the Río Pacuare During Times of Free Trade and Regional Integration.
Chair: Kate A. Berry

B.A. International Studies; Spanish; Humboldt State University, Arcata, California, 2006
Minor Geography
Mentor: Stephen F. Cunha

Study Abroad: Center of Modern Languages, University of Granada, Spain, Spring 2005

A.A. Liberal Arts, Central Florida Community College, 2000

ACADEMIC EMPLOYMENT

Assistant Professor	Northern Arizona University, School of Earth and Environmental	Fall 2017- Present
Graduate Employee	University of Oregon, Geography	Fall 2012-Winter 2017
Research Assistant	University of Oregon, Geography	Summer 2013
Adjunct Instructor	University of Nevada, Reno, Geography	Fall 2010-Summer 2012
	Truckee Meadows Community College, Reno	Fall 2010-Spring 2012
Teaching Assistant	University of Nevada, Reno, Geography	Fall 2007-Summer 2010

PUBLICATIONS AND PRODUCTIONS (Symbols indicate graduate* undergraduate^ authors)

Li, P., Shen, M., Perry, D., Li, C., Zhao, M., Yang, P. (In review) Comparative Study and the Driving Factors on the Spatial Distribution Characteristics of Protected River Systems Between China and the United States of America. *Ecological Indicators*.

Guetz, K*, Joyal, T., Dickson, B., **Perry, D.** (In Review) Dam Removal Prioritization in the West: An Optimization Approach for River Restoration and Conservation. *Journal of Restoration Ecology*.

Major, J*, Aslan, C., McManamay, R., **Perry, D.** (2021) Identifying gaps in protected areas to expand integrated riverine ecosystem conservation. *Conservation Science and Practice*. <https://doi.org/10.1111/csp2.470>

Perry, D., Harrison, I., Fernandes, S., Burnham, S., Nichols, A. (2021). Global Analysis of Durable Policies for Free-Flowing River Protections. *Sustainability* 13,4: 2347. <https://www.mdpi.com/2071-1050/13/4/2347>

George, R., McManamay*, R., **Perry, D.**, Sabo, J., & Ruddell, B. L. (2021). Indicators of hydro-ecological alteration for the rivers of the United States. *Ecological Indicators*, 120, 106908. <https://doi.org/10.1016/j.ecolind.2020.106908>

Perry, D. (2021). Legible Rivers, Resilient Rivers: Lessons for Climate Adaptation Policy from the Wild and Scenic Rivers Act. In J. Cassin, J. Dalton, E. Lopez Gunn, & J. Matthews, *Nature-based Solutions and Water Security: An Agenda for the 21st Century*. Elsevier. <https://www.elsevier.com/books/nature-based-solutions-and-water-security/cassin/978-0-12-819871-1>

Perry, D. "Report of the Eighty-Second Annual Meeting: Flagstaff, Arizona October 16–19, 2019." *Yearbook of the Association of Pacific Coast Geographers*, vol. 82, 2020, p. 171-173. *Project MUSE*, [doi:10.1353/pcg.2020.0011](https://doi.org/10.1353/pcg.2020.0011).

Perry, D. 2020. Review of "Water scarcity in the American West: Unauthorized water use and the new future of water accountability", Palgrave Macmillan, 2020, by D. Perry, *Water Alternatives*, <http://www.water-alternatives.org/index.php/boh/item/172-scarcity>

Major, J*, K. Guetz*, **D. Perry** (2020). National Wild and Scenic Rivers System-NHDv2 Seamless Merge, HydroShare, <https://doi.org/10.4211/hs.5a64a540b0384018ae252d9079de32e8>

Swanson, R.*, Springer, A., Kreamer, D. Tobin, B., **Perry, D.** (2020). Quantifying the base flow of the Colorado River: its importance in sustaining perennial flow in northern Arizona and southern Utah. *Hydrogeology Journal*. <https://doi.org/10.1007/s10040-020-02260-5>

Ellis, R.*, & **Perry, D.** (2020). A Confluence of Anticolonial Pathways for Indigenous Sacred Site Protection. *Journal of Contemporary Water Research & Education*, (169), 8–26. <https://onlinelibrary.wiley.com/doi/full/10.1111/j.1936-704X.2020.03329.x>

Perry, D. Athayde, S., Setúbal, S., Chief, K., Colombi, B., Marchand, C., Molina, S. (2020). One River Unites Indigenous Peoples from Across the Americas: A Cultural Exchange on

the Legacy of Hydroelectric Dam Impacts. In *Rivers, Lands and Cultures: Learning from the Tocantins Social-ecological System*. Juliana Laufer; Elineide E. Marques; Simone Athayde; A. Christine Swanson; Ana Daisy A. Zagallo (Ed.). <https://amazondamsnetwork.org/e-book-rios-terras-e-culturas-aprendendo-com-o-sistema-socioecologico-do-tocantins/> DOI – 10.22350 / 9786587340197

Bair, L., Chief, K., Colombi, B., Melis, T., **Perry, D.** (2020). Tribes and water management in the Colorado River, US. In *Rivers, Lands and Cultures: Learning from the Tocantins Social-ecological System*. Juliana Laufer; Elineide E. Marques; Simone Athayde; A. Christine Swanson; Ana Daisy A. Zagallo (Ed.). <https://amazondamsnetwork.org/e-book-rios-terras-e-culturas-aprendendo-com-o-sistema-socioecologico-do-tocantins/>

Global Charter for Rewilding the Earth, 11th World Wilderness Congress (WILD11, Resolutions Committee, March 2020); www.wild11.org/charter.

Bair, L., Yackulic, C., Schmidt, J., **Perry, D.**, Kirchoff, C., Chief, K., Colombi, K. (2019). Incorporating Social-ecological Considerations into Basin-wide Responses to Climate Change in the Colorado River Basin. *Current Opinion in Environmental Sustainability* 37:14-19. <https://doi.org/10.1016/j.cosust.2019.04.002>

Perry, D. (Producer/Director). (2018). SES Teaching in the Field [Motion Picture]. United States: Meredith Meeks Media. [School of Earth and Sustainability | School of Earth and Sustainability](http://www.schoolofearthandustainability.com)

Perry, D.M. (2017). [Re]framing the Wild and Scenic Rivers Act for Ecosystem Based Resilience and Adaptation.”, *International Journal of Wilderness*, 18(2): 41-48. <http://ijw.org/wp-content/uploads/2017/06/Dec2017a-IJW-Web.pdf>

Perry, D.M. and Praskievicz, S.J. (2017). "A new era of big infrastructure? [Re-] developing water storage in the U.S. West in the context of climate change and environmental regulation." *Water Alternatives*, 10(2): 134-151. <http://www.water-alternatives.org/index.php/alldoc/articles/vol10/v10issue2/363-a10-2-13/file>

Perry, D.M. and Berry, K. A. (2016). “Central American integration through infrastructure development: a case study of Costa Rican hydropower” *Regions and Cohesion*, 6(1). doi:10.3167/reco.2016.060105

Perry, D. (Producer/Director). (2015). *Troubled Waters: Costa Rica’s Rio Pacuare* [Motion Picture]. United States: Jeremy Jensen Media. <http://riopacuarecostarica.org/the-film/>

MANUSCRIPTS IN PROGRESS

Perry, D. and Harrison, I. (In prep for submission). “Introduction to Special Issue on Durable Protections for Free-Flowing Rivers.” *Sustainability*.

Perry, D., Brown, M., McLaughlin, J., O’Dowd, A., Rost, A., Shimoda, R., Vonesh, J., Yarnell, S. (In prep for submission). Teaching on the river: Status and prospectus for college field education on rivers in the United States. *Life Sciences Education*.

Perry, D.M., Burnham, S[^]., Wieser, C., Schäfer, T. (In press). Regional dialogues in free-flowing river conservation and restoration initiatives: The 2018 European Rivers Summit in review. *Journal of Ecohydraulics*.

Smith, S^{*}., Grimm, K., **Perry, D.** (In Progress). The Role of Federal Policy and Conservation Perceptions in New Mexico's Gila River Watershed. *Environmental Management*.

Swanson, R., **Perry, D.**, Springer, A. (In Review). Policy Deficiencies and Contingency Plans: The Implications of Groundwater Management on Base Flow Contributions to the Colorado River. *Journal of River Basin Management*.

Perry, D. (In Progress). "A Regional Comparison of Conservation Policy Perceptions: Assessing Wild & Scenic Rivers from East to West." To be submitted to *The Professional Geographer*.

Perry, D. (In Progress). "A Political Ecology of Federal River Conservation: 50 years and counting of the Wild and Scenic Rivers Act." To be submitted to the *Environment and Planning E*.

Perry, D. (In Progress). "Hydropower Capital and Policy Matters: the nexus of climate change, energy development, and conservation in Costa Rica's Rio Pacuare." To be submitted to *Journal of Latin American Geography*

Perry, D. and Peng, Li. (In progress). "Dragons, Dams, and Dinosaurs: The Evolution of China's River Principles & Policies." To be submitted to *Geoforum*.

GRANTS, AWARDS, & FELLOWSHIPS

2021	Co-PI NSF NRT: Biocultural Health and Sustainability. Proposal number: TBD. \$TBD	In Prep
	Co-PI NSF RCN-UBE: River Field Studies Network: The River Field Studies Network: Connecting rivers, people, & science through immersive field-based education. Proposal number: 2120665. \$499,711.06	Funded \$499,711
2020	PI NSF-DISES: Integrating Dynamic Interactions and Feedbacks among Socio-Ecological Diversity, Connectivity, and Resilience to Inform the Future of Riverine Ecosystem Conservation. Proposal number: 2010007. \$1,599,997	Submitted 11/2020 Not funded
	Co-PI NSF-SBE Postdoctoral Fellowship: Hydrosocial Territories of Climate Governance: an interdisciplinary examination of the Indigenous-hydropower nexus. Award Number: 2104950	Funded \$138,000

	Co-PI NSF-IRES: Justice and Sustainability Training (JuST) for Students involved in Collaborative, International Education about Nature, Culture and Ethics (SCIENCE) – JuST SCIENCE. \$ 395,454	Unfunded Submitted 11/2020
	Co-PI NAU/NASA Space Grant: Off the hook: Subsistence inland fisheries and their vulnerability to climate change. \$1800.	Funded \$1800
	Sub-Award NSF IUSE-EHR Collaborative Research: A Next Generation Concept Inventory using Constructed Response for evaluating student knowledge of complex systems in environmental education. Award # 2013373. Sub-award amount \$ 22,106	Funded \$1.077Mil
2019	PI NSF CNH2-L: Integrating Dynamic Interactions among Socio-Ecological Diversity, Connectivity, and Resilience to Inform the Future of River Conservation. Proposal number: 2010007. \$1,599,546	Unfunded Submitted 11/2019
	PI NSF CNH2-L: Investigating Dynamic Interactions among Socio-Ecological Diversity, Connectivity, and Resilience to Inform the Future of River Conservation. Proposal number: 1924134. \$1,599,041	Unfunded Submitted 2/2019
	Co-PI NSF RCN-UBE Incubator: Building a framework for the River-based Immersive Education & Research (RIVER) Field Studies Network. Proposal number: 1919737. \$ 74,968	\$ 74,968
2018	Sustainable Leadership Award NAU Faculty Award Nominee	\$0
	Co-PI NSF CNH-S: Interactions between environmental perceptions, natural hydrologic systems, ecosystem services, and property values resulting from public lands sales. Proposal Number: 1824728. \$749,080.00	Unfunded Submitted 11/2018
	PI USGS 104(g): Application of USGS Science to Prioritize Federal River Conservation for Resilient Ecosystems \$250,000	Unfunded
2017	CUAHSI Let’s Talk About Water “The Wild and Scenic Rivers Act: 50 Years of River Conservation and Counting”	\$3000
	NCSCE “Transcending Barriers to Success: Connecting Indigenous and Western Knowledge”	\$6000
	NPS, CPCESU “Ecosystem Services of Wild and Scenic Rivers”	\$73,000
2016	Christopherson Geosystems Award for Excellence in Applied Geography	\$500
	Lyndon Baines Johnson Foundation Moody Research Grant	\$3000

	University of Oregon Women in Graduate Science Parenting Award	\$1200
2014	Global Greengrants Fund	\$1500
	University of Oregon Department of Geography Fieldwork Grant	\$400
2013	APCG Larry Ford Fieldwork Award	\$500
2013	APCG Women's Network Travel Grant	\$200
2009	AAG Geography Bowl Championship team	\$100
2008	John Joseph Crowley Geography Scholarship, University of Nevada, Reno	\$1500

CONFERENCE SESSIONS, PRESENTATIONS, PANELS, & INVITED LECTURES

2021 (Upcoming) Advancing Social Equity and Ecological Sustainability through Durable River Protections and Restoration Efforts: From Pedagogy to Practice. Invited lecture UNR Geography Colloquium Series (virtual). November 17.

(Upcoming) Advancing Social Equity and Ecological Sustainability through Durable River Protections and Restoration Efforts: From Pedagogy to Practice. Invited lecture Baylor Colloquium Series. November 11.

(Upcoming) "Protection of our Rivers: Wild & Scenic." American Rivers After Hours Webinar. September 29.

(Upcoming) River Protection and Restoration Efforts to Advance Social Equity and Ecological Sustainability: From Epistemology to Practice. HSU Colloquium Series. September 27.

Session Organizer Session I & II and Moderator Session II: "Pathways for Protection: Blended Solutions to protect and manage rivers." World Water Week. (virtual). August. <https://www.worldwaterweek.org/event/9925-pathways-for-protection-blended-solutions-to-protect-and-manage-freshwater>

"The River Field Studies Network: Connecting Rivers, People, & Science Through Immersive Field-Based Education." (abstract #13939). Society for Freshwater Science. (virtual). May. https://sfsannualmeeting.org/Schedule/grid_details.cfm?aid=13939

"Building a framework for the River-based Immersive Education & Research (RiVER) Field Studies Network." River Management Society Symposium. (virtual). April.

"Linking Academics and Practitioners to Train Tomorrow's River Professionals." River Management Society Symposium. (virtual). April.

"Protecting Rivers in a Changing Climate: Blended Solutions for Resilient Riverine Ecosystems Sessions I & II." River Management Society Symposium. (virtual). April.

Panel Discussion "The Nexus of River Conservation and Energy." Wild and Scenic River Coalition Capital Hill Week. March.

Panelists Watershed Alliance for the Rio de Flag Speaker Series. December

2020

"Parched: The Art of Water in the Southwest Panel Discussion." Coconino Center for the Arts. Flagstaff, AZ (virtual). November. <https://www.ccaflagstaff.org/parched-virtual-exhibition>

"Riverine Ecosystems: the lifeblood of a sustainable water future." Mountain West Region of Citizens' Climate Lobby. September.

"Building a framework for the River-based Immersive Education and Research (RIVER) Field Studies Network" (abstract #87158). Ecological Society of America annual meeting. SLC, UT (virtual). August.

"A Confluence of Anticolonial Pathways for Indigenous Sacred Site Protection." Presented by Rachel Ellis & Denielle Perry. Water in the Native World Special Issue Webinar Series. UA Superfund Community Engagement Core. June. <https://www.youtube.com/watch?v=v99VUJQgGzM&feature=youtu.be>

Session Organizer & Chair. Session 1: Continued Threats and Remaining Promises for the World's Free-Flowing Rivers; Session 2: Tools, Techniques, and Testing Grounds for the Implementation of Durable River Protections; Session 3: Perceptions and Possibilities for China River Protections Poster Session and roundtable discussion. Jaipur, India. Note: event cancelled due to COVID-19.

2019

"Beyond Deadpool and Drought: The Future of Water in Arizona." Organizer of this panel for the Climate 2020: Seven Generations for Arizona conference. Flagstaff, AZ. November.

"A Confluence of Anticolonial Pathways for Indigenous Sacred Site Protection." Presented by Rachel Ellis & Denielle Perry. Association of Pacific Coast Geographers Annual Meeting. Flagstaff, AZ. October. <https://nau.edu/wp-content/uploads/sites/128/APCG-2019-Program-Finalv3.pdf>

“Advancing Social Equity and Ecological Sustainability in IWRM: Lessons from the Wild and Scenic Rivers Act.” 15th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Flagstaff, AZ. September.

2018 “One River Unites Indigenous Peoples from Across the Americas: A Cultural Exchange on the Legacy of Hydroelectric Dam Impacts.” Invited lecture USGS Southwest Biological Science Center. Flagstaff, AZ. December.

Panel Organizer & Chair “Wild & Scenic River lessons for applications abroad.” River Management Society Symposium. Vancouver, WA. October.

Panel Organizer & Chair. “Strategies for Expanding the National Wild & Scenic Rivers System for Comprehensive River Conservation.” River Management Society Symposium. Vancouver, WA. October.

Panel discussant “The River Studies and Leadership Certificate Program: Overcoming obstacles & building bridges.” River Management Society Symposium. Vancouver, WA. October.

“The Wild and Scenic Rivers Act as Climate Adaptation Policy for Ecosystem Resilience.” First European Rivers Summit. Sarajevo, B&H. September.

“A Wild River’s Value for Ecosystem Protection.” Invited lecture at 14th Annual Gila River Festival Western New Mexico University. Silver City, NM. September.

“The Wild and Scenic Rivers Act Turns 50: Looking back to see into the future.” Invited lecture at Colorado River Days Brown Bag Lunch. Flagstaff, AZ. September.

“The Political Ecology of River Conservation Policy 50 Years On: Lessons from around the globe.” Invited lecture at University of Arizona Department of Geography Fall Seminar Series. Tucson, AZ. September.

“Global Challenges and Opportunities for Water Governance in the Native World.” Keynote talk at the NSF-NRT: "Indigenous Food Energy and Water Security & Sovereignty or Indige-FEWSS" Water in the Native World Symposium. Missoula, MT. August.

“Campus Celebration of Wild and Scenic’s 50th Anniversary: Successes and lessons learned from the Student Water Symposium.” Invited lecture River Rally’s Wild & Scenic Rivers 50th Webinar Celebrating Wild and Scenic Rivers 50th: Engaging Your Diverse Community. Webinar, June.

“Hydropower Capital and Policy Matters: The Nexus of Energy Development, Climate Change, and Conservation on Costa Rica’s Contested Río Pacuare.” 35th Conference of Latin Americanist Geographers. San Jose, Costa Rica. May.

“Panel on Colorado River Management.” Rivers, Lands and Cultures: Learning from the Tocantins Social-ecological System NSF-CNH-RCN: Amazon Dams Network: Advancing Integrative Research and Adaptive Management of Social-ecological Systems Transformed by Hydroelectric Dams Workshop. Palmas, Brazil. May.

“Source to Sink: Tracing the Truckee River from Lake Tahoe to Pyramid Lake.” Field Trip Leader. River Rally. Olympic Valley, CA. May.

“Using Storytelling to Save Your River.” Invited panel discussion. River Rally. Olympic Valley, CA. May.

“Policy Matters: Reconfiguring river governance for ecosystem protection and climate adaptation.” Invited Webinar Amazon Dams Network. April 5, 2018. <http://amazondamsnetwork.org/recorded-webinars-presentations/#toggle-id-1>

“The Political Ecology of Federal River Conservation Policy 50 Years On: Wild & Scenic Rivers from D.C. to Beijing.” Invited lecture at University of Idaho Department of Geography Spring Seminar Series. Moscow, ID. March.

"The Political Ecology of Wild & Scenic: Lessons for Advancing Resilient River Ecosystems." Invited Lecture University of Montana Wilderness Institute Spring Seminar Series. Missoula, MT. March

“Dragons, Dams, and Dinosaurs: The Evolution of China's River Principles and Policies.” Invited Lecture SESES Spring Seminar Series, NAU. February

2017 “Bridging Resilience and Adaptation by Integrating Conservation Policy into Water Resource Management.” Invited Lecture Sino-USA Symposium on River Conservation. Yunnan University, Kunming, China. December.

“Wild & Scenic Rivers: Adventures in Advocacy and the Academy.” Invited lecture for Geography Awareness Week. NAU Department of Geography. November.

“Interpreting the Wild & Scenic Rio Grande.” Invited guided lecture float for Waterkeeper Alliance and Wild Earth Guardians. Taos, NM. October

“Bridging Resilience and Adaptation by Integrating Conservation Policy into Water Resource Management.” Arizona Hydrological Society Annual Symposium. Flagstaff, AZ. September.

“A Dissertation Review: The Uneven Geography of River Conservation in The U.S.: Insights from the Application of the Wild and Scenic Rivers Act.” Interagency Wild and Scenic Rivers Coordinating Council Invited lecture via teleconference. August.

“Adventures in River Advocacy and Academics.” Willamette Kayak and Canoe Club invited lecture. Corvallis, OR. May.

Session Organizer & Chair. “Legibility Acts and Climate Adaptation Sessions 1-3.” American Association of Geographers Annual Meeting. Boston, MA. April.

“Legible Rivers, Resilient Rivers: Lessons in Adaptation from the Wild and Scenic Rivers Act.” American Association of Geographers Annual Meeting. Boston, MA. April.

“Legibility Acts as Climate Change Adaptation: Insights from the Wild and Scenic Rivers Act.” University of Oklahoma Seminar Series. February.

2016 “A Political Ecology of Federal River Conservation: 50 years of the Wild & Scenic Rivers Act.” Association of Pacific Coast Geographers Annual Meeting. Portland, OR. October.

“The Wild & Scenic Rivers of the United States.” University of Oregon Three Minute Thesis. Eugene, OR.

“The Spatio-Temporal Dimensions of River Conservation in the U.S.: Insights from the Wild & Scenic Rivers Act.” American Association of Geographers Annual Meeting. San Francisco, CA.

2015 “Troubled Waters: Costa Rica’s Rio Pacuare.” Film screening and lecture tour at University of Oregon, Eugene; University of Nevada, Reno; Vista Grande High School, Taos, NM; Taos Mesa Brewery, Taos, NM.

2014 “Water Security for Whom? Reservoir Expansion on California’s Wild and Scenic Rivers.” International Geographers Union Political Geography and Environment Conference. Eugene, OR.

“Human-Environment Interactions in the McKenzie River Watershed.” Geography outreach lecture and whitewater rafting field trip co-organized with Sarah Praskievicz. Eugene, OR.

2013 Co-organizer of field trip “From Source to Sink: Tracing the Truckee River from Lake Tahoe to Pyramid Lake.” Association of Pacific Coast Geographers Annual Meeting. Squaw Valley, CA.

“Drought, Discourse, and Denial: The Lake McClure Expansion Plan and the Wild & Scenic Merced River.” Association of Pacific Coast Geographers Annual Meeting. Squaw Valley, CA.

“New Era of Reclamation? Water Storage in the American West in the Context of Climate Change Adaptation.” Co-presented with Sarah Praskievicz at Oregon State University Water Research Symposium. Corvallis, OR.

2009 Invited lecture “El Desarrollo de la Hidroelectricidad con el TLC y PPP.” National Forum for the Defense of the Rivers and Rights of the Peoples. Turrialba, Costa Rica.

“Hydropower development under CAFTA and the PPP: Free trade with a heavy hand.” American Association of Geographers Annual Meeting. Las Vegas, NV.

2008 “Costa Rica's Río Pacuare: Troubled Waters for a Cultural Icon.” California Geographical Society Meeting. Chico, CA.

INVITED NAU GUEST LECTURES

2020 FOR “Wild and Scenic Rivers Act of 1968: An adaptable conservation policy for the protection of riverine ecosystem services.” April

SUS 604 “Archival Research: Memories, methods, and merits to advance conservation policy.” March

2019/21 EES 605, “Resilience Theory: A Case Study in River Conservation”

2017 ENV 230, “Life Cycle Analysis”

ART 136, “The Art of Sustainability Science.” For art exhibit development.

MEDIA

2021 NAU researcher co-authors chapters in bilingual book on dams in Colorado, Amazon river basins. <https://news.nau.edu/perry-amazon-dams-network/>

“Beavers, killer whales, and the tie that binds.” We Are Rivers Podcast Series. American Rivers. June. <https://soundcloud.com/user-51615419-679542510/beavers-killer-whales-and-the-tie-that-binds>

Lovgren S (2021). Rivers and lakes are the most degraded ecosystems in the world. Can we save them? *National Geographic*. <https://www.nationalgeographic.com/environment/article/rivers-and-lakes-are-most-degraded-ecosystems-in-world-can-we-save-them?>

Delaney, J. (2021). Top 10 Colleges Where You Can Make A Difference in the Climate Crisis <https://www.collegemagazine.com/top-10-colleges-where-you-can-make-a-difference-in-the-climate-crisis/>

2019 Lovgren S (2019) Two-thirds of the longest rivers no longer flow freely—and it’s harming us. *National Geographic*.

<https://www.nationalgeographic.com/environment/2019/05/worlds-free-flowing-rivers-mapped-hydropower/>

2018 *Adventure Pro Magazine*. Priceless: Honoring the Rio Grande River. *October*.

<https://adventurepro.us/priceless-honoring-the-rio-grande/>

“Water is Life and the NAU Student Water Symposium.” Radio show on Radio Sunnyside 101.5. Flagstaff, AZ. April.

<http://www.thecoloradoplateau.com/2018/04/plateau-on-radio-episode-11-water-is.html>

2015 Tico Times (Costa Rica) Dam the Pacuare? Over Turrialba’s dead body.

<http://www.ticotimes.net/2015/08/25/dam-the-pacuare-over-turrialbas-dead-body>

TEACHING EXPERIENCE

Lead and/or Co-Instructor

Spring terms 2018-2021	Water Resources Policy & Management, NAU	ENV 425/525
Spring 2019	*Rivers & Rifts, NAU	EES 697
Spring 2018	*Yampa Field Study, NAU	EES 697
Fall/Spring 2017– 2021	Environmental Sustainability, NAU	ENV 181
Fall terms 2017-2020	Environmental Sciences-Policy Interface, NAU	ENV 555
Fall 2015	Environment and Development, UO	GEOG 465/565
Spring 2015	Geography, Law, & the Environment, UO	GEOG 463/563
Fall 2014, Sum 2013	Introduction to Human Geography, UO	GEOG 142
Fall 2013	Geography of Latin America, UO	GEOG 214
Summer 2012	*Energy & Water Nexus, UNR	GEOG 470
Spring 2012	*Western Water Resources Management, UNR	GEOG 438/638
Fall 2010, Fall 2011	World Regional Geography, UNR	GEOG 200
Spring 2011	Geography of Latin America, UNR	GEOG 476/676
Fall 2010-Spring 2012	Cultural Geography, TMCC	GEOG 106
	* contain significant field component	

Teaching Assistant

Fall 2016	Mountain Geography, UO	GEOG 410/510
Spring 2016	Population & Environment, UO	GEOG 341
Fall 2015	International Water Policy, UO	GEOG 467/567
Spring 2014	Introduction to Physical Geography, UO	GEOG 141
Winter 2014	Introduction to Human Geography, UO	GEOG 142
Spring 2013, Winter 2017	Geography, Law, & the Environment, UO	GEOG 463/563
Winter 2013, Winter 2015	Geography of Europe, UO	GEOG 202
Fall 2012	Geography of Latin America, UO	GEOG 214
Summer 2010	Physical Geography, UNR	GEOG 103
Fall 2007- Spring 2009	Introduction to Cultural Geography, UNR	GEOG 106
Fall 2006	Cultural Geography, HSU	GEOG 105

NAU STUDENT ADVISING/MENTORING

Thesis or Dissertation Committee Chair

Adam Bringham, Chair, PhD ESES, In Progress
Caitlin Brogan, Chair, MS CSS (4+1), In Progress
Sarah Burnham, Chair MA SUS (4+1), In Progress
Vicente Javier-Christiano Diaz, Chair MA SUS, In Progress
Rachel Ellis, Co-chair, MA SUS, Graduated Spring, 2019
Stephannie Fernandes, Chair, MS ES&P, In Progress
Katie Guetz, Chair, Chair, MS ES&P, Graduated Spring, 2020
James Major, Chair, MS ES&P, Graduated Spring, 2020
Monica Pech-Cardenas, Chair, PhD ESES, In Progress
Paola Silva, Chair MA SUS, In Progress
Sarah Smith, Chair, ES&P, Graduated Spring, 2020
Coreen Welsh, Co-Chair, SUS, Graduated Winter, 2018
Ryan Yazzie, Chair, PhD ESES, In Progress

Thesis or Dissertation Committee Member

Javis Davis, Committee member, MS ES&P, In Progress
Robert George, Committee member, MS ES&P, Graduated Spring, 2019
Lindsey Jones, Committee member, MS ES&P, Graduated Spring, 2019
Miranda Perrone, Committee member, ES&P, Graduated Spring, 2018
Emily Romano, Committee member, ES&P, Graduated Winter, 2018
Riley Swanson, Committee member, Geology, Graduated Spring, 2020

Undergraduate Research, Mentoring, and Advising

Marina Aukon-Page, BASIS AP senior thesis advisor (2018-2019)
Caitlin Brogan, Undergraduate Research Assistant (2020-)
Sarah Burnham, Undergraduate Research Assistant (2020-)
Laura Colley, Undergraduate Research Assistant (2020-)
Daniel Garcia, Undergraduate Research Assistant (2019-2020)
Hannah Mueller, Undergraduate Research Assistant (2017-2018)
Alana Nichols, Undergraduate Research Assistant (2020)
Matthew Roderick, Undergraduate Research Assistant (2020)
Brenna (Bo) Sullivan, Undergraduate Research Assistant (2021)
Ziba Toghiani, Undergraduate Research Assistant (2020)

PROFESSIONAL SERVICE AND DEVELOPMENT

International Union for the Conservation of Nature

Commission Member - IUCN WCPA Biodiversity and Protected Areas : Network 2021
Commission Member - IUCN WCPA Climate Change : Network 2021
Commission Member - IUCN WCPA Connectivity Conservation : Network 2021

Commission Member - IUCN WCPA Indigenous People and Protected Areas : Network 2021
Commission Member - IUCN WCPA North America Region 2021

American Association of Geographers (AAG)

Board Member, Indigenous Peoples Specialty Group (2021)
Secretary-Treasurer, Water Resources Specialty Group (2021-)
AAG Career and Research Mentor (2020-present)
Treasurer, Latin America Specialty Group (2016-2018)
Diversity Ambassador Panelist at Annual Meeting in San Francisco (2016)

Association of Pacific Coast Geographers (APCG)

Chair, 2019 Annual Meeting Organizing Committee (2018-2019)
Nominations committee (2018-present)
Student paper awards committee (2018-present)

Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI)

Northern Arizona University Institutional representative (2018-present)

Durable River Protection Coalition

Co-founder and Co-Chair (2020- Present)

Friends of the Rio de Flag

Vice President (2020- Present)

Wild and Scenic Rivers Coalition

Founding member and science-policy advisor (2018- Present)

World Wilderness Congress

WILD 11 Resolutions Committee (2020)

Northern Arizona University, School of Earth and Sustainability (SES)

Co-Chair – SES Diversity & Inclusion Committee (2020-Present)
Member - NAU Climate Action Plan Landscape & Water Working Group
Member – NAU Liberal Studies Task Force (Fall 2019-Present)

Member – SES Strategic Planning Committee (Fall 2019-Present)
 Faculty Advisor – River Studies & Leadership Certificate (2018-present)
 Faculty Advisor- Student Water Symposium Organizing Committee (2018-present)
 Faculty Advisor – Community & University Public Inquiry Initiative - Grand Canyon Trust/Black Mesa Trust (Fall 2017-Present)
 Member, NAU Living Laboratories & Learning Gardens Committee (Spring 2019-Present)
 Member, Curriculum Committee - School of Earth and Sustainability (2018-present)
 Member, Scholarship Committee School of Earth and Sustainability 2018 (2018-present)
 Member, Sustainable Communities Steering Committee – School of Social and Behavioral Sciences (2018-Present)

University of Oregon

River Research Group, 2013-2017
 Student coordinator, GEOG 608 Thesis Writing and Workshop Spring, 2014; Fall, 2016
 Geography outreach volunteer, College Block new orientation, Fall 2016
 Organizing committee, annual Geography Tea Talk Series, 2014-2015
 Geography outreach volunteer, Field trip leader and lecturer, 2014
 Interpreter, Public Interest Environmental Law Conference, UO Law 2015
 Volunteer Instructor, Girls Science Adventure Camp, Women in Graduate Science 2013
 Volunteer Instructor, Geography Awareness Week, 2012-2016
 Graduate Teaching Fellows Federation

- Treasurer, 2015-2017
- Geography Department Steward, 2014-2015

University of Nevada, Reno

Faculty Advisor, established undergraduate Geography Club, 2012
 Professional Evaluator, Student World Water Forum, 2010 & 2011
 President, Student World Water Forum organizing committee, 2008
 Member, Student Association of International Water Issues (SAIWI), 2008-2010

Peer Reviews

International Journal of Wilderness Sustainability Water	Rowman & Littlefield Water Alternatives Frontiers Environmental Science
--	---

PROFESSIONAL MEMBERSHIPS

American Association of Geographers (AAG)

- Cultural and Political Ecology Specialty Group (CAPE)
- Energy and Environment Specialty Group (EESG)
- Human Dimensions of Global Change (HDGC)
- Indigenous Peoples (IPSG)
- Latin America Specialty Group (LASG)
- Water Resources Specialty Group (WRSBG)

American Water Resources Association (AWRA)
 Association of Pacific Coast Geographers (APCG)
 Association of Women in Science (AWIS)
 California Geographical Society (CGS)
 Conference of Latin Americanist Geographers (CLAG)
 Durable River Protections Coalition
 Ecological Society of America (ESA) – TEK specialty group
 Political Ecology Society (PESO)
 River Management Society (RMS)
 Wild and Scenic Rivers Coalition
 World Wilderness Congress

RESEARCH FOCI

Climate adaptation and resilience	Locations
Durable River Protections	
Ecosystem services and biodiversity	China
Environmental Justice	Europe
Hydropower	Latin America
Indigenous water governance	U.S. West
Public policy & natural resource management	
<ul style="list-style-type: none"> • Endangered Species Act • Federal Reserved Water Rights • Western Water Law • Wild and Scenic Rivers Act • Water-Energy-Food-Climate nexus 	

SELECT EMPLOYMENT & VOLUNTEER SERVICE

Interpreter & Advocate, Rivers for Life 3, **International Rivers**, Guadalajara, MX, 2010

Watershed Learning Project Educator, **Rivers and Birds**, Taos, NM 2009

Truckee River Project volunteer, **The Nature Conservancy**, Reno, NV 2008 -2009

Academic Mentor and coordinator of Food for Thought program at Tsurai High School, **YouthServe AmeriCorps**, Arcata, CA 2005-2006

Event Coordinator, **Sustainable Nations Development Project**, Arcata, CA 2005-2006

Interpreter, **Seventh Generation Fund**, Arcata, CA 2006

Outreach & Administrative Assistant, **Northcoast Regional Land Trust**, Arcata, CA 2003-2004

Manager & Guide, **RainForest World**, Turrialba, Costa Rica, 2001-2003

Consultant, **Federación Ecologista**, San Jose, Costa Rica, 2001-2003

Co-founder/Advocate, **Amigos del Río Pacuare**, Turrialba, Costa Rica, 2001-Present

Volunteer, **Río Grande Restoration**, Taos, NM, 1999-2001

Guide, **Los Rios River Runners**, Taos, NM, 1999-2001, 2004, 2009; VIP interpretive trips 2017, 2019

LANGUAGE SKILLS

English (fluent); Spanish (fluent); French (basic); Chinese (beginner)

TRAINING

CITI Human Subjects protocol 09/14/2017

INTERNATIONAL EXPERIENCE

Residence: Costa Rica, Mexico, Spain

Travel: Azerbaijan, Bosnia & Herzegovina, Brazil, Canada, China, El Salvador, France, Guatemala, Honduras, Jamaica, Morocco, Nicaragua, Panama, Switzerland