

## **Educational History**

Ph.D., 2014, Arizona State University, Tempe, Arizona, USA, Sustainability  
Dissertation: Political Economic Barriers to Global Change Adaptations: A Study of Agrarian  
Rural Development in Northwest Costa Rica. Director: Dr. Daniel Childers

B.S., 2006, Purdue University, Civil Engineering

## **Employment History**

Associate Professor, 2017 – current, Department of Geography & Environmental Studies,  
University of New Mexico, Albuquerque, New Mexico, USA

Postdoctoral Research Scholar, 2014 – 2017, Department of Geosciences / Department of  
Environmental Conservation, University of Massachusetts, Amherst, Massachusetts, USA

Adjunct Faculty, 2014, Department of Earth and Environment, Boston University, Boston,  
Massachusetts, USA

Water resources engineer, 2006 – 2009, HNTB, Inc., Indianapolis, Indiana, USA

## **Scholarly Achievements**

### **Articles Published in Refereed Journals**

Warner, B. P., Vogel, E., & Hatch, C. E. 2022. Exactly Where Does the River Need Space to  
Move? Seeking Participatory Translation of Fluvial Geomorphology into Flood Management.  
JAWRA Journal of American Water Resources Association, 1-16. DOI:

<https://doi.org/10.1111/1752-1688.13049>

Warner, B. P. & Meluso, A. 2022. "We are fingers of a hand that make a fist": Working class  
alliances in Colorado River water protests in the Mexicali Valley, Mexico. *Water Alternatives*,  
15(2): 193-214. [https://www.water-  
alternatives.org/index.php/alldoc/articles/vol15/v15issue2/659-a15-2-1/file](https://www.water-alternatives.org/index.php/alldoc/articles/vol15/v15issue2/659-a15-2-1/file)

Warner, B. P., Colvin, T., & Mukerji, R. 2023. Recentralizing state power in decentralized small  
drinking water system governance in New Mexico, USA. *International Journal of Water  
Resources Development*, 39(1), 26-47. DOI: <https://doi.org/10.1080/07900627.2021.1976116>

Warner, B. P., Walsh-Dilley, M., Nelson-Nuñez, J., & Duvall, C. S. 2020. Rural Transformation in Latin America's Changing Climate. *Journal of Latin American Geography*, 19(3), 10-25. DOI: <https://doi.org/10.1353/lag.2020.0069>

Warner, B. P. 2019. Explaining political polarization in environmental governance using narrative analysis. *Ecology & Society*, 24(3). DOI: <https://doi.org/10.5751/ES-10999-240304>

Thomas, K. A., & Warner, B. P. 2019. Weaponizing vulnerability to climate change. *Global Environmental Change*, 57, 101928. DOI: <https://doi.org/10.1016/j.gloenvcha.2019.101928>

Thomas, K., Hardy, R. D., Lazrus, H., Mendez, M., Orlove, B., Rivera-Collazo, I., Warner, B. P., & Winthrop, R. 2019. Explaining differential vulnerability to climate change: A social science review. *Wiley Interdisciplinary Reviews: Climate Change*, 10(2), e565. DOI: <https://doi.org/10.1002/wcc.565>

Warner, B. P., Childers, D., Kuzdas, C., & Stocks, G. 2018. Smallholder adaptation to drought in Costa Rica's crony capitalist rice economy. *Development and Change* 49(6), 1392-1421. DOI: <http://dx.doi.org/10.1111/dech.12420>

Warner, B.P., Gartner, J. D., & Hatch, C. E. 2018. Fluvial Geomorphic Assessment and River Corridor Mapping as Flood Risk Management Tools in Massachusetts, USA. *Journal of Flood Risk Management*. 11, S1100-S1104. DOI: <http://dx.doi.org/10.1111/jfr3.12328>

Milman, A., Warner, B. P., Chapman, D., & Short, A. 2018. Quantifying landowner perspectives on integrated flood risk management in Massachusetts, USA. *Journal of Flood Risk Management* 11 (1), 34-47. DOI: <http://dx.doi.org/10.1111/jfr3.12291>

Short Gianotti, Anne G., Benjamin Warner & Anita Milman. 2018. Flood Concerns and Impacts on Rural Landowners: An Empirical Study of the Deerfield Watershed, MA (USA). *Environmental Science & Policy*, 79, 94–102. DOI: <http://dx.doi.org/10.1016/j.envsci.2017.10.007>

Warner, B. P. & Kuzdas, C. 2017. The role of political economy in framing and producing transformative adaptation. *Current Opinions in Environmental Sustainability*. 29(C), 69-74. DOI: <https://doi.org/10.1016/j.cosust.2017.12.012>

Warner, B. P. Schattman, R., & Hatch, C. E. 2017. Farming the floodplain: Ecological and agricultural tradeoffs and opportunities in river and stream governance in New England's changing climate. *Case Studies in the Environment*, 1 – 9. DOI: <https://doi.org/10.1525/cse.2017.sc.512407>

Kuzdas, C., Warner, B. P., Wiek, A., Vignola, R., & Morataya, R. 2016. Identifying the potential of governance regimes to aggravate or mitigate water conflicts in regions threatened by climate change. *Local Environment*, 21(11), 1387-1408. DOI: <http://dx.doi.org/10.1080/13549839.2015.1129604>

Milman, A., & Warner, B. P. 2016. The interfaces of public and private adaptation: Lessons from flooding in the Deerfield River Watershed. *Global Environmental Change*, 36, 46–55. DOI: <http://dx.doi.org/10.1016/j.gloenvcha.2015.11.007>

Warner, B. P., & Kuzdas, C. 2016. Manufactured global change risk pathways in industrial-based agrarian development. *Climate and Development*, 8(5), 385–396. DOI: <http://dx.doi.org/10.1080/17565529.2015.1085359>

Kuzdas, C., Warner, B. P., Wiek, A., Vignola, R., Yglesias, M., & Childers, D. L. 2016. Sustainability assessment of water governance alternatives: the case of Guanacaste Costa Rica. *Sustainability Science*, 11(2), 231–247. DOI: <http://dx.doi.org/10.1007/s11625-015-0324-6>

Warner, B. P. 2016. Understanding actor-centered adaptation limits in smallholder agriculture in the Central American dry tropics. *Journal of Agriculture and Human Values*, 33(4), 785–797. DOI: <http://dx.doi.org/10.1007/s10460-015-9661-4>

Warner, B. P., Kuzdas, C., Yglesias, M. G., & Childers, D. L. 2015. Limits to adaptation to interacting global change risks among smallholder rice farmers in Northwest Costa Rica. *Global Environmental Change*, 30, 101–112. DOI: <http://dx.doi.org/10.1016/j.gloenvcha.2014.11.002>

Warner, B. P., & Elser, M. 2015. How Do Sustainable Schools Integrate Sustainability Education? An Assessment of Certified Sustainable K–12 Schools in the United States. *The Journal of Environmental Education*, 46(1), 1–22. DOI: <http://dx.doi.org/10.1080/00958964.2014.953020>

Kuzdas, C., Wiek, A., Warner, B. P., Vignola, R., & Morataya, R. 2015. Integrated and participatory analysis of regional water governance regimes – The case of Guanacaste, Costa Rica. *World Development*, 66, 254–266. DOI: <http://dx.doi.org/10.1016/j.worlddev.2014.08.018>

Kuzdas, C., Wiek, A., Warner, B. P., Vignola, R., & Morataya, R. 2014. Sustainability appraisal of water governance regimes – The case of Guanacaste Province, Costa Rica. *Environmental Management*, 54(2), 205–222. DOI: <http://dx.doi.org/10.1007/s00267-014-0292-0>

## **Articles Appearing in Chapters in Edited Volumes**

Warner, B. P., & Kuzdas, C. 2020. Understanding the Impact of Costa Rica’s Protectionist Rice Economy on Smallholder Farmers in Semi-arid Northwest Costa Rica. In Fletcher, R., Dowd-Urbe, B., & Aistara, G. A. (Eds.), *The Ecolaboratory: Environmental Governance and Economic Development in Costa Rica* (pp. 103–116). University of Arizona Press.

Kuzdas, C., & Warner, B. P. 2020. Conflict and Cooperation in Costa Rica’s Water Sector: Lessons for Water Management. In Fletcher, R., Dowd-Urbe, B., & Aistara, G. A. (Eds.), *The Ecolaboratory: Environmental Governance and Economic Development in Costa Rica* (pp. 276–289). University of Arizona Press.

## **Other Scholarly Works**

Malczynski, R., & Warner, B. P. 2020. Review of the book “Saving Grand Canyon: Dams, Deals, and a Noble Myth”, Byron E. Pearson. University of Nevada Press, Reno (2019). 344 pages. *Journal of Historical Geography*, 70, 109-110.

Colvin, T., & Warner, B. P. 2019. Review of the book “Unsettled Waters Rights, Law, and Identity in the American West”, Eric Perramond. University of California Press, Berkeley (2018). 248 pages. *Pacific Northwest Quarterly*, 110(3), 153-154.

Warner, B. P. Schattman, R., & Hatch, C. E. 2019. Farming the floodplain: Tradeoffs & Opportunities. USDA Brief, December, 2019.

D. Hardy, H. Lazrus, M. Mendez, B. Orlove, I. Rivera-Collazo, J. T. Roberts, M. Rockman, K. Thomas, B. P. Warner, R. Winthrop. 2018. Social vulnerability: Social science perspectives on climate change, part 1. Washington, DC: USGCRP Social Science Coordinating Committee. <https://www.globalchange.gov/content/social-science-perspectives-climate-change-workshop>.

Warner, B. P. 2017. Mixed-methods approaches to understanding climate change risks to agrarian-based livelihoods. SAGE Research Methods Cases. <http://dx.doi.org/10.4135/9781473994775>

Warner, B. P. and Schattman, R. E. 2017. Farming in the floodplain: Overcoming tradeoffs to achieve good river governance in New England. Case study published by the National Socio-Environmental Synthesis Center (SESNC), Bethesda, MD. <https://www.sesync.org/farming-the-floodplain-overcoming-tradeoffs-to-achieve-good-river-governance-in-new-england-2016-3>.

Vogel, E., Gillett, N., Warner, B. P., Schoen, J., Payne, L., Chang, D., ... Slovin, N. 2016. Supporting New England Communities to Become River-Smart: Federal and state policies and programs that can help New England towns thrive despite river floods. Army Corp of Engineers Institute for Water Resources. Alexandria, VA. <https://extension.umass.edu/riversmart/policy-report>.

Warner, B. P. September 21, 2015. Sustainability science is a new academic discipline. But is it sustainable? *The Conversation*, p. 2. Boston, MA. Retrieved from <https://theconversation.com/sustainability-science-is-a-new-academic-discipline-but-is-it-sustainable-46719>

Warner, B. P. & Kuzdas, C. 2015. Origins of water scarcity in rural development in the Costa Rican dry tropics: Neoliberalism, international trade, and climate change. GWF Discussion Paper. Global Water Forum. Canberra, Australia. Retrieved from <http://www.globalwaterforum.org/2015/08/03/origins-of-water-scarcity-in-rural-development-in-the-costa-rican-dry-tropics-neoliberalism-international-trade-and-climate-change/> AWARDED EDITORS' PICK OF THE YEAR 2015.

Kuzdas, C., Yglesias, M., & Warner, B. P. 2013. Advancing Sustainable Governance of Water Resources in Costa Rica. The Solutions Journal. 4(4), Aug 2013.  
<http://thesolutionsjournal.com/node/23918>

Kuzdas, C., Yglesias, M., Wiek, A., Warner, B. P., Vignola, R., & Morataya, R. 2010. Sustainability assessment of water systems and water governance in the Portrero, Caimital, and Upper Nosara Watersheds. Comisión para el Manejo de las Cuencas Potrero-Caimital. Nicoya, GTE, Costa Rica (Spanish)

## **Works in Progress**

### *In preparation*

Warner, B. P. In prep. Understanding violence in social movements in water governments in Northwest Mexico.

Thomas, K. & Warner B. P. In Prep. Extraterritorial maneuvers in the geopolitics of Climate change.

Warner, B. P. In prep. Regionalization in rural water development.

Mukerji, R. & Warner B. P. In Prep. The role of violations in drinking water utility management.

Fremier, A., Walsh-Dilley, M., Nunez, J., Warner, B. P., Boll, J... In Prep. Headwater dependent systems: From concept to application across the Americas.

## **Contributed (un-refereed) Abstracts and/or Oral Presentations at Professional Meetings**

“We are fingers of a hand that make a fist”: Working class alliances in Colorado River water protests in the Mexicali Valley, Mexico; Warner, B. P.; Latin American and Iberian Institute lecture series; Albuquerque, NM; April 28, 2022.

Recentralizing state power in decentralized small drinking water system governance in New Mexico, USA; Warner, B. P.; Association of American Geographers 2022 Annual Meeting; online; 2022.

Understanding Latin American water governance; Warner, B. P.; Partnerships Along the Headwaters of the Americas for Young Scientists Program Annual Meeting; Santiago, Chile; January 10, 2022.

Rural transformation in Latin America’s changing climate; Warner, B. P.; Association of American Geographers 2019 Annual Meeting; Washington, D.C.; April, 2018.

Rural Transformation in Latin America; Warner, B. P.; UNM LAII Greenleaf Symposium, Greenleaf Symposium on Rural Transformation in Latin America's Changing Climate; Albuquerque, NM; November 14, 2018.

50 Years of New Mexico's Rivers and Trails; Warner, B. P.; UNM's Keller Hall, Albuquerque; October 5, 2018.

Explaining river forms and functions through flood management narrative analyses in Western Massachusetts, USA; Warner, B. P.; Association of American Geographers 2018 Annual Meeting in New Orleans, Louisiana; April 14, 2018.

Climate Change, Sustainability and Social Science Research; Warner, B. P.; UMass Institute for Social Science Research - Fall Seminar Series; Amherst, MA; November 6.

Limits to adaptation to interacting global change risks among smallholder rice farmers in Northwest Costa Rica; Warner, B. P.; UMass Department of Geosciences Professional Seminar; Amherst, MA; March 27.

Farms, Floods and Fluvial Geomorphology: Making the Most of Our Natural Resources; Warner, B. P., Hatch, C.; Presented at Soil and Water Conservation Society International Annual Conference; Greensboro, NC; July 28, 2015.

Agricultural Adaptation to Water Scarcity in Northern Costa Rica; Warner, B. P.; Intensive Program on Sustainability (IPoS) Workshop at the Asian Institute of Technology; Tokyo; 8/2012.

Do sustainability projects make sustainable schools? Integrating K-12 campuses in communities to create sustainable schools; Warner, B. P.; Presented at the 41st Annual North American Association for Environmental Educators (NAAEE) Conference, Oakland CA; 10/12.

The contribution of evapotranspiration to the water budget of an aridland urban treatment wetland; Sanchez, C., Childers, D. L., Turnbull, L. J., Warner, B. P., & Weller, N.; Presentation at the INTECOL International Wetlands Conference, Orlando, FL; 7 June 2012.

Designing sustainable governance: Cross-domain comparison and evaluation; Foley, R. W., Kuzdas, C., Warner, B. P., Withycombe-Keeler, L., Iwaniec, D. & Wiek, A.; Poster presented at the 3rd Annual International Conference on Sustainability Science, Tempe, AZ; 19-22 February 2012.

The contribution of evapotranspiration and evaporation to the water budget of a treatment wetland in Phoenix, AZ, USA; Sanchez, C. A., Childers, D., Turnbull, L., Warner, B. P., & Weller, N.; Poster presented at CAP LTER 14th Annual Poster Symposium and All Scientist Meeting, Global Institute of Sustainability, Arizona State University, Tempe, AZ; 13 January 2012.

Approach for Coordination, Collaboration and Effectiveness in Sustainability Science (ACCESS); Warner, B. P., & Kuzdas, C.; Presented at Annual Organization for Tropical Studies Directorate Meeting; 3/11.

Hydrology versus Ecology: The Effectiveness of Constructed Wetlands for Wastewater Treatment in a Semi-Arid Climate; Warner, B. P., Turnbull, L., & Childers, D.; Poster presented at Central Arizona-Phoenix Long Term Ecological Research (LTER) Annual Symposium; 1/11.

Measuring urban vulnerability using a model of ecological resilience: An assessment methodology; Warner, B. P. & Kuzdas, C.; Poster presented at the 12th Annual Central Arizona-Phoenix Long-Term Ecological Research Poster Symposium, Global Institute of Sustainability; January 14, 2010.

## **Research**

### **Research Funding (Funded proposals)**

Transforming Rural-Urban Systems: Trajectories for Sustainability in the Intermountain West  
PIs: Mark Stone, Karletta Chief, Ryan R Morrison, Julie Padowski, Lani Tsinnajinnie  
National Science Foundation, Award # 2115169  
2021 – 2026, \$14,999,681

Understanding institutional scale in New Mexican drinking water governance  
PI: Benjamin P. Warner  
Environmental Defense Fund, Award # A22-0120  
2021 – 2023, \$20,001

Partnerships Along the Headwaters of the Americas for Young Scientists Program  
PIs: Mark Stone, Benjamin P. Warner, Jan Boll, Alexander Fremier  
National Science Foundation, Award # 1954188  
2020 – 2024, \$598,498

Filling the institutional gap in rural water contestation of expanding urban water spaces in decentralized Latin America  
PIs: Benjamin P. Warner, Jami Nunez  
Latin American and Iberian Institute  
2018 – 2019, \$5,000

UNM Grand Challenge Sustainable Water Resources  
PIs: Benjamin P. Warner, among others  
University of New Mexico  
2018 – present, \$50,000/year

LAI course development proposal  
PI: Benjamin P. Warner

Latin American and Iberian Institute  
2017 – 2018, \$2,500

Farms, floods and fluvial geomorphology: making the most of our natural resources  
PI: Christine Hatch  
U.S. Department of Agriculture, National Institute of Food and Agriculture (NIFA) Integrated  
Water Quality Grant Program, Award # 2013-51130-21488  
2014 – 2017, \$640,000

Doctoral Graduate Education Spring 2014 Completion Grant  
PI: Benjamin P. Warner  
Arizona State University  
2014, \$9,500

Managing water allocation equitably: Risks to smallholder farmers in Costa Rica's Arenal-  
Tempisque Irrigation District  
PIs: Benjamin P. Warner, Chris Kuzdas  
C.W. & Modene Neely Charitable Foundation Grant  
2013-2014, \$2,900

Hydrology Versus Ecology: The Effectiveness of Constructed Wetlands for Wastewater  
Treatment in a Semi-arid Climate  
PIs: Laura Turnbull, Daniel Childers, Benjamin P. Warner  
USGS Water Resources Research Center, Award # 2011AZ436B  
2011-2012, \$40,000

Climate resilience in agriculture in Guanacaste Province, Costa Rica  
PI: Benjamin P. Warner  
NSF International Graduate Research Experience Grant, Palo Verde Biological Station, Costa  
Rica, Award # 0553925  
2010, \$13,000

## **Teaching**

### **Ph.D Advisement**

Ria Mukerji; 2020; Geography and Environmental Studies

### **Masters Advisement**

Anthony Meluso; 2019; Geography and Environmental Studies; La gota que colma la caguama:  
Cumulative Tensions Transformed into the Defense of Water

Tucker Colvin; Geography and Environmental Studies; 2020



Amy Jones; Water Resources Program; 2021

Marissa Heller; Geography and Environmental Studies; 2021

## **Undergraduate Student Mentoring**

Rachel Sanchez; 2019; Geography and Environmental Studies; Rural drinking water in New Mexico

Indu Roychowdhury; 2019; Geography and Environmental Studies; Rural drinking water in New Mexico

## **Classroom Teaching**

2022, fall, Water Governance, GEOG542, 5

2022, fall, Water Governance, GEOG442, 10

2022, fall, Globalization and Development, GEOG516, 12

2021, spring, People and Place: Introduction to Human Geography, GEOG1165, 25

2021, spring, Approaches to Geographic Research, GEOG502, 8

2020, fall, Water Governance, GEOG562, 10

2020, fall, Water Governance, GEOG462, 20

2020, fall, Globalization and Development, GEOG516, 10

2020, spring, People and Place: Introduction to Human Geography, GEOG1165, 25

2020, spring, Approaches to Geographic Research, GEOG502, 8

2019, fall, Water Governance, GEOG562, 7

2019, fall, Globalization and Development, GEOG516, 5

2019, fall, Water Governance, GEOG462, 20

2019, spring, Introduction to Environmental Studies, GEOG195, 11

2019, spring, Water Governance, GEOG562, 8

2019, spring, Water Governance, GEOG462, 20

2018, spring, Water Governance, GEOG562, 7

2018, spring, Water Governance, GEOG462, 20

2018, spring, Introduction to Environmental Studies, GEOG195, 5

2017, fall, Globalization and Development, GEOG516, 9

2014, fall, Environment and Development: A Political Ecology Approach, GE600, 12

2014, fall, Environment and Development: A Political Ecology Approach, GE400, 25

## **Curriculum Development or Teaching Administrative Positions**

Academic Affairs General Education Teaching Fellowship, 2019 – 2020

## **Service**

### *Editorships*

2019, special issue editor for Journal of Latin American Geography

### *Reviewing for journals and grants*

2022, reviewer for Nature Communications

2022, reviewer for Journal of Historical Geography

2021, reviewer for Journal of Environmental Policy & Planning

2021, reviewer for Water International

2021, reviewer for Environmental Research Letters

2021, reviewer for Ecological Economics

2020, reviewer for Ecology and Society

2020, reviewer for Water International

2020, reviewer for Journal of Cleaner Production

2020, reviewer for Sociological Inquiry

2020, reviewer for Global Environmental Change

2020, reviewer for NSF Geography and Spatial Sciences program

2019, reviewer for NSF Geography and Spatial Sciences program

2019, reviewer for Sustainable Cities and Society

2018, reviewer for Journal of Cleaner Production

2018, reviewer for Environmental Innovation and Societal Transitions

2018, reviewer for WIREs Climate Change

2017, reviewer for Agriculture and Human Values

2017, reviewer for Climate and development

2017, reviewer for World Development

2017, reviewer for World Development  
2016, reviewer for Global Environmental Change  
2016, reviewer for WIREs Climate Change  
2016, reviewer for Elementa

*Administrative work with professional societies, elect offices held*

2020, Director, Development Geography Specialty Group of the AAG  
2019, Director, Development Geography Specialty Group of the AAG  
2018, Director, Development Geography Specialty Group of the AAG  
2018, proposal reviewer, Development Geography Specialty Group of the AAG

*Administrative work in Department, College, University committees*

2022, Associate director, Sustainability studies program, Department of Geography and Environmental Studies, UNM  
2022, Grants committee member, LAII—UNM  
2022, Executive committee member, Sustainable water resources grand challenge, UNM  
2022, Executive committee member, Water resources program, UNM  
2022, Executive committee member, LAII—UNM  
2021, Executive committee member, Sustainable water resources grand challenge, UNM  
2021, Executive committee member, Water resources program, UNM  
2021, Executive committee member, LAII—UNM  
2020, Executive committee member, Sustainable water resources grand challenge, UNM  
2020, Executive committee member, Water resources program, UNM  
2019, Chair, Faculty hire search committee, Department of Geography and Environmental Studies, University of New Mexico  
2019, Chair, UNM Geography and Environmental Studies colloquium series  
2019, Proposal reviewer, LAII—UNM  
2019, Executive committee member, Water resources program, UNM  
2019, Member, budget committee, Department of Geography and Environmental Studies, University of New Mexico  
2018, Proposal reviewer, LAII—UNM  
2018, Executive committee member, Water resources program, UNM  
2018, Co-chair, UNM LAII Greenleaf Symposium, Greenleaf Symposium on Rural Transformation in Latin America's Changing Climate, Albuquerque, NM.  
2018, Member, budget committee, Department of Geography and Environmental Studies, University of New Mexico  
2017, Member, budget committee, Department of Geography and Environmental Studies, University of New Mexico

*Community service, etc.*

2022, Member, New Mexico Climbers Resource and Advocacy Group - NMCRAAG  
2021, Member, New Mexico Climbers Resource and Advocacy Group - NMCRAAG  
2020, Member, New Mexico Climbers Resource and Advocacy Group - NMCRAAG

2019, Member, New Mexico Climbers Resource and Advocacy Group - NMCRAAG  
2018, Co-chair – US Forest Service Symposium, “50 Years of New Mexico’s Rivers and Trails,” October 5 – 6, 2018, UNM’s Keller Hall and the National Hispanic Cultural Center.