

Curriculum Vitae
Trevor L. Birkenholtz
Associate Professor
Department of Geography
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I. BIOGRAPHICAL DATA

Education

- 2007. Ph.D., Geography, The Ohio State University, Columbus, OH.
- 2002. M.A., Geography, The Ohio State University, Columbus, OH.
- 1997. B.A. (honors), Geography, University of Iowa, Iowa City, IA.
- 1993. A.A.S. (honors), Machine Technology, Indian Hills Community College, Ottumwa, IA.

Academic Appointments

- 2021 – Present. Associate Head, Resident Graduate Program.
- 2020 – Present. Visiting Fellow, Ashoka Trust for Research in Ecology and the Environment (ATREE), Bengaluru, Karnataka, India.
- 2020 – Present. Director, Riparia Lab.
- 2019 – Present. Associate Professor, Department of Geography, The Pennsylvania State University, University Park, PA.
- 2018 – 2019. Director of Undergraduate Studies, Department of Geography and Geographic Information Science. University of Illinois at Urbana-Champaign.
- 2015 – 2018. Executive Co-Chair for Sustainability, Energy and Environment, Grand Challenges Learning Initiative, University of Illinois at Urbana-Champaign.
- 2014 – 2019. Associate Professor, Department of Geography and Geographic Information Science. University of Illinois at Urbana-Champaign.
- 2013 – 2014. Assistant Professor, Department of Geography and Geographic Information Science. University of Illinois at Urbana-Champaign.
- 2013 – 2014. Associate Professor, Department of Geography. Rutgers, The State University of New Jersey. New Brunswick, NJ.
- 2012 – 2013. Director, International Studies Certificate Program. Rutgers, The State University of New Jersey. New Brunswick, NJ.
- 2012 – 2013. Director of Undergraduate Studies, Department of Geography. Rutgers, The State University of New Jersey. New Brunswick, NJ.
- 2007 – 2013. Assistant Professor, Department of Geography. Rutgers, The State University of New Jersey. New Brunswick, NJ.

2011. Visiting Fellow, Institute of Development Studies, Jaipur, Rajasthan, India.
2007. Visiting Assistant Professor, Environmental Studies Program, Oberlin College. Oberlin, Ohio.

II. SCHOLARSHIP

Journal Articles

- Birkenholtz, T and Gregory Simon. (2022). "Introduction to Special Issue: Ignorance and Uncertainty in Environmental Decision-Making." *Geoforum*.
- Nixon, Becca, Zhao Ma, Bushra Khan, **Trevor Birkenholtz**, Linda Lee, Ishaq Mian. (2022). "Adaptation to Social–Ecological Change in Northwestern Pakistan: Household Strategies and Decision-making Processes." *Environmental Management*.
- Mannix, Devin, **Trevor Birkenholtz**, Daniel B. Abrams, Cecilia Cullen. (2022). "Uncertain Waters: Participatory groundwater modelling in Chicago’s suburbs." In a special issue on "Knowledge, Ignorance and Uncertainty in Environmental Decision-Making," edited by Trevor Birkenholtz and Gregory Simon. *Geoforum*.
- Misquitta, Karan and **T. Birkenholtz**. (2021). "Drip irrigation as a socio-technical configuration: Policy design and technological choice in Western India." *Water International*, 1-18.
- Stock, Ryan and **T. Birkenholtz**. (2020). "Photons vs. firewood: Female (dis)empowerment by solar power." *Gender, Place and Culture*, 1-24.
- Stock, Ryan & **T. Birkenholtz**. (2019). "The sun and the scythe: energy dispossessions and the agrarian question of labor in solar parks." *The Journal of Peasant Studies* 1-24.
- Cantor, Alida, E. Stoddard, D. Rocheleau, J. Brewer, **T. Birkenholtz**, K. Foo, R. Roth, P. Nirmal. (2018). "Putting Rooted Networks into Practice." *ACME: An International Journal for Critical Geographies* 17 (4), 958-87.
- Birkenholtz, T. (2018). "Commentary: An STS of the Underground." In a special issue on "Engaging the Underground: An STS Field in Formation," edited by Abby J. Kinchy, Roopali Phadke and Jessica M. Smith. *Engaging Science, Technology, and Society*: 4: 155-164.
- Stock, Ryan, **T. Birkenholtz** & Amit Garg. (2017). "Let the People Speak: Improving Regional Adaptation Policy by Combining Adaptive Capacity Assessments with Vulnerability Perceptions of Farmers in Gujarat, India." *Climate and Development*: 1-15.
- Birkenholtz, T. (2017). "Assessing India’s Drip Irrigation Boom: Efficiency, Climate Change & Groundwater Policy." *Water International* 42(6): 663-677.
- Birkenholtz, T. (2016). "Dispossessing Irrigators: Water grabbing, Supply-side Growth and Farmer Resistance in India." *Geoforum* 69: 94-105.
- Birkenholtz, T. (2015). "Re-centralizing Groundwater Governmentality: Rendering Groundwater and its Users Visible and Governable." *WIREs Water* 2(1): 21-30.
- Birkenholtz, T. (2014). "Knowing Climate Change: Local Social Institutions and Adaptation in India’s Groundwater Irrigation." In a special issue on "Climate Change in South Asia," edited by Trevor Birkenholtz. *The Professional Geographer* 66(3): 354-362.
- Birkenholtz, T. (2013). "On the Network, Off the Map: Developing Intervillage and Intragender Differentiation in Rural Water Supply." Invited paper in a special issue on "Exploring

- Political Ecologies of Water and Development,” edited by Jessica Budds and Farhana Sultana. *Environment and Planning D: Society and Space* 31(2): 345-371.
- Birkenholtz, T. (2012). “Network Political Ecology: Method and Theory in Climate Change Vulnerability and Adaptation Research.” *Progress in Human Geography* 36(3): 295-315.
- Birkenholtz, T. (2010). “‘Full Cost Recovery’: Producing Uneven Access to Water Provision in Jaipur, India.” *Environment and Planning A* 42(9): 2238-2253.
- Rudel, T. K., L. Schneider, M. Uriarte, B.L. Turner II, R. DeFries, D. Lawrence, J. Geoghegan, S. Hecht, A. Ickowitz, E. F. Lambin, **T. Birkenholtz**, S. Baptista and R. Grau. (2009). "Agricultural Intensification and Changes in Cultivated Areas, 1970-2005." *Proceedings of the National Academy of Sciences* 106(49): 20675-20680.
- Birkenholtz, T. (2009). “Groundwater Governmentality: Hegemony and Technologies of Resistance in Rajasthan’s (India) Groundwater Governance.” *The Geographical Journal* 175(3): 208-220.
- Birkenholtz, T. (2009). “Irrigated Landscapes, Produced Scarcity, and Adaptive Social Institutions in Rajasthan, India.” *Annals of the Association of American Geographers* 99(1): 118-137.
- Roth, R.J., J. Anderson, L. Barraclough, **T. Birkenholtz**, S. Brown, I. Chatterjee, V. Crossa, K. Driscoll Derickson, A. Debban’e, J. Giesecking, S. Koopman, M. Michelson, D. Ojeda, S. Oosterlynck, H. Perkins, A. Sabhlok. (2008). “What’s Just? Afterthoughts on the Summer Institute for the Geographies of Justice 2007.” *Antipode* 40(5): 736-750.
- Birkenholtz, T. (2008). “Contesting Expertise: The Politics of Environmental Knowledge in Northern Indian Groundwater Practices.” *Geoforum* 39: 466-482
- Robbins, P. and **T. Birkenholtz**. (2003). “Turfgrass Revolution: Measuring the Expansion of the American Lawn.” *Land Use Policy* 20: 181-194.
- Robbins, P., A. Polderman, and **T. Birkenholtz**. (2001). “Lawns and Toxins: An Ecology of the City.” *Cities: The International Journal of Urban Policy and Planning* 18(6): 369-380.
- Savoca, M., J. Tobias, E. Sadorf, and **T. Birkenholtz**. (1997). “Herbicides and Nitrates in the Iowa River Alluvial Aquifer Prior to Changing Land Use, Iowa County, Iowa, 1996.” *1997: U.S. Geological Survey Fact Sheet*. FS-085-97, 4p.

Manuscripts under Review

- Birkenholtz, T. “Gendering Water Infrastructure: Drip Irrigation, Efficiency and its Feminine Labor Subsidy.” With *Environment and Planning E: Nature and Space*.
- Birkenholtz, T. “Geographies of Big Water Infrastructure: Contemporary Insights and Future Research Opportunities.” With *Geography Compass*.
- Nixon, Becca, Zhao Ma, Bushra Khan, **Trevor Birkenholtz**, Linda Lee, Ishaq Mian. "Values and social influence in adaptive water governance: Empirical evidence from northwestern Pakistan." For a special issue on Adaptive Water Governance with *Ecology and Society*.
- Nixon, Becca, Zhao Ma, Laura Zanotti, Bushra Khan, **Trevor Birkenholtz**, Linda Lee, Ishaq Mian. “Value tradeoffs in household adaptation to social-ecological change in northwestern Pakistan.” With *Agriculture and Human Values*.
- Nixon, Becca, Zhao Ma, **Trevor Birkenholtz**, Bushra Khan, Linda Lee, Ishaq

Mian. “Beyond Household Size: Diversification, Access to Capital, and Adaptation to Social-Ecological Change Across Household Structures in Northwestern Pakistan.” For a special issue on Everyday Adaptations to Climate Change with *Ecology and Society*.

Manuscripts in Revision

Singh, Harman, **Trevor Birkenholtz**, Helen Greatrex. “Examining the Nature of Complex Urban Flooding through a Mixed-Methods Approach: A Case from Kerala, India.” With *Natural Hazards Review*.

Peer-Reviewed Book Chapters

- Birkenholtz, T., B. Rhoads. (2020). “Grid.” Invited contribution for *Feral Atlas*, edited by Anna Tsing, Jennifer Deger, Alder Keleman Saxena and Feifei Zhou. Stanford University Press, ISBN 9781503615045 | DOI 10.21627/2020fa.
- Birkenholtz, T. (2018). “Assessing India’s Drip Irrigation Boom: Efficiency, Climate Change & Groundwater Policy.” *Groundwater and Climate Change* (Routledge, 2018), ISBN: 978-1-138-48271-5.
- Birkenholtz, T. (2016). “Drinking Water.” Invited contribution for *Eating, Drinking: Surviving The International Year of Global Understanding - IYGU*. P. Jackson, W. E. L. Speiss and F. Sultana. Cham, Switzerland, Springer, Nature: 23-30.
- Birkenholtz, T. (2015). “Nonlinear Groundwater and Agricultural Land Use Change in Rajasthan, India.” In *Spatial Diversity and Dynamics in Resources and Urban Development (Regional Resources - Volume I)*. Dutt, Ashok K., Allen G. Noble, Frank G. Costa, Sudhir K. Thakur and Hari S. Sharma, eds. Netherlands, Springer Press.
- Birkenholtz, T. (2008). “Murky Waters: Mediating Local Institutions for Demand Side Solutions in Rajasthani Irrigation.” In *Culture, Polity and Economy*. Varsha Joshi and Surjit Singh eds. Jaipur (India), Rawat Publications, 225-236.
- Birkenholtz, T. (2008). “‘Environmentalities’ in Rajasthan’s Groundwater Sector: Divergent Environmental Knowledges and Subjectivities.” In *Contentious Geographies: Environment, Meaning, Scale*. M. Goodman, M. Boykoff and K. T. Evered eds. Aldershot, Ashgate Press, 81-96.
- Birkenholtz, T. (2007). “Groundwater.” In *Encyclopedia of Environment and Society*, Robbins, P. (ed.), Thousand Oaks (CA): Sage, 828-831.

Conference Proceedings

Birkenholtz, T. (2012). “The 2010 Rajasthan State Water Policy and the Urbanization of Water.” IWMI-Tata Program, Water Policy Research Highlight, www.iwmi.org/iwmi-tata/apm2012. Conference on “Water and Society: Celebrating a Decade of Policy Research Partnership on Irrigation, Energy, Agriculture and Livelihoods in India,” Anand, Gujarat, India, November 2012.

Editorials

Birkenholtz, T. (2010). "Climate Change in South Asia: Governance, Equity and Social Justice." *Asian Studies Newsletter* 55(1): 14.

Special Journal Issues Edited

Birkenholtz, T & Gregory Simon. (2022). "Ignorance and Uncertainty in Environmental Decision Making." *Geoforum*.

Birkenholtz, T. (2014). "Climate Change in South Asia." *The Professional Geographer* 66(3): 345-389.

Book Reviews

Birkenholtz, T. (2009). Review of "Capital Interrupted: Agrarian Development and the Politics of Work in India." In *Social and Cultural Geography* 10(2): 231-233.

Birkenholtz, T. (2004). Review of "Tubewell Capitalism: Groundwater Development and Agrarian Change in Gujarat." In *Economic Geography* 80(1): 115-117.

Conference Papers

"Uncertainty in At-Risk Water Supplies of Northeast Illinois: Participatory groundwater models for future water-supply scenarios," with Devin Mannix, Illinois Water Survey. American Association of Geographers Annual Meeting, Washington, DC, April 2019.

"Producing the Subsurface: Rendering Groundwater Socioecologies Visible and Knowable," American Association of Geographers Annual Meeting, Boston, MA, April 2017.

"Backpressure: Infrastructural Friction and Human Resistance in Indian Water Supply," Dimensions of Political Ecology Conference, Lexington, KY, February 2016.

"Surplus and Security: An Analysis of India's National River-Linking Project," Association of American Geographers Annual Meeting, San Francisco, IL, March 2016.

"Visualizing Groundwater Socioecologies: Rendering the "Un-seeable" Knowable," conference on Undisciplined Environments: International Conference of the European Network of Political Ecology (ENTITLE), Stockholm, Sweden, March 2016.

"Waiting on Water: Urbanization, Informalization and Infrastructure Development in India," Association of American Geographers Annual Meeting, Chicago, IL, April 2015.

"Who Needs Privatization When you have Appropriation (of Water)?," Association of American Geographers Annual Meeting, Tampa, FL, April 2014.

"Water Grabbing in Rajasthan: From Agrarian to Urban (GDP) Growth," 42nd Annual Conference on South Asia, Madison, WI, October 2013.

"Supply-Side Urbanization: Metabolizing Agrarian Water for GDP Growth," Association of American Geographers Annual Meeting, Los Angeles, CA, April 2013.

"Piped Dreams: Supply-side Urbanization & Agrarian Transformation," Conference on "Water and Waste: The Future of Water and Sanitation in India," Rutgers University, New Brunswick, NJ, February 2013.

"Indian Water Policy: An Analysis of the Central Government's Draft Groundwater Bill in Historical Context," Conference on "Water and Society: Celebrating a Decade of Policy Research Partnership on Irrigation, Energy, Agriculture and Livelihoods in India," Anand, Gujarat, India, November 2012.

- “Extensifying while Intensifying: Network Political Ecology and the Scalar Challenges of Climate Change Vulnerability Research,” ICARUS III (Initiative on Climate Adaptation Research and Understanding through the Social Sciences), Columbia University, New York, NY, May 2012.
- “Urbanizing Water, Marginalizing Farmers: Urban Growth, Irrigated Agriculture and Water Development in Northwestern India,” Association of American Geographers Annual Meeting, New York, NY, February 2012.
- “Knowing Climate Change: Local Weather Prediction and Policy in Rajasthan, India,” Mid-Atlantic Region Association for Asian Studies Conference, Princeton University, Princeton, NJ, October 2011.
- “Extensifying while Intensifying: ‘Regional Political Ecology’ and the Methodological Challenge of Investigating Vulnerability and Adaptation to Climate Change,” Association of American Geographers Annual Meeting, Washington D.C., April 2010.
- “Groundwater Governmentality: Multiple Subjectivities and Technologies of Resistance in Rajasthan, India,” Association of American Geographers Annual Meeting, Boston, MA, April 2008.
- “The Politics of Tubewell Irrigation in Jaipur: Scarcity, Recursive Ecological Change and Adaptive Social Institutions,” 36th Annual Conference on South Asia, Madison, WI, October 2007.
- “The Capacity of Irrigation Technology in Socioecological Change: Irrigated Landscapes, Produced Scarcity, and Adaptive Social Institutions in Northern India,” Association of American Geographers Annual Meeting, San Francisco, CA, April 2007.
- “The Nature of Irrigation Technology and Socioecological Change: Irrigated Landscapes and Hybrid Agencies in Northern India,” Association of American Geographers Annual Meeting, Chicago, IL, March 2006.
- “Murky Waters: Mediating Local Institutions for Demand Side Solutions in Rajasthani Irrigation,” at the Fifth Annual Conference on Rajasthan, Jaipur, India, December 2005.
- “The Political Ecology of Groundwater,” Association of American Geographers Annual Meeting, Philadelphia, PA, March 2004.
- “Competitive Urban Sustainable Development,” Association of American Geographers Annual Meeting, New Orleans, LA, March 2003.

Workshop Papers

- “Equity and Payments for Watershed Ecosystem Services (PWES) in Irrigation Systems,” Workshop on “Assessing Equity in the Context of Ecosystem Services,” RECOFTC - The Center for People and Forests, Bangkok, Thailand, July 2012.
- “Payments for Watershed Ecosystem Services (PWES) in Irrigation Systems,” Workshop on “Defining Equity in the Context of Ecosystem Services,” Oxford University, UK, May 2011.
- “Connecting the People/Hoisting the *Matka*: The Intersection of Climate Change Policy and Palimpsests of Water Development in Marwar,” MaGrann Conference on Climate Change in South Asia, Rutgers University, New Brunswick, NJ, April 2009.
- “Diagnostic Methods for the Study of Urban Socioecological Systems: A Case from Jaipur,” at

“U.S., India Joint Workshop: Coupled Human-Natural Systems and the Challenge of Rapid Urbanization to the Resiliency of Water Resources,” Indian Institute of Science, Bangalore, India. December 2008.

“Nonlinear Groundwater and Agricultural Land Use Change in Rajasthan, India,” MaGrann Columbia-Rutgers Workshop on Land Use Transitions in the Tropics, Columbia University, New York, NY, March 2008.

Invited Lectures at Universities and Academic Institutions

Keynote and Plenary Addresses

“The Political Ecology of Drip Irrigation Infrastructure: Efficiency and Gendered Labor Dynamics in India,” Northeast Nature-Society Workshop, The Pennsylvania State University, University Park, PA, September 2018.

“The (Re)Feminization of Agrarian Labor: Women and the Water-Efficiency Paradox in North India,” Cultural and Political Ecology Specialty Group – Robert McC. Netting Plenary Lecture, American Association of Geographers, New Orleans, LA, April 2018.

“Rajasthan’s 2010 State Water Policy: The Urbanization of Water,” Plenary Address, Conference on “Water and Society: Celebrating a Decade of Policy Research Partnership on Irrigation, Energy, Agriculture and Livelihoods in India,” International Water Management Institute (IWMI), Anand, Gujarat, India, November 2012.

“Waiting for Water: Urbanization and Water Development in the Global South,” Keynote Address, Student World Water Forum, University of Nevada, Reno, NV, November 2010.

Invited Lectures

“Infrastructures of Dispossession: India’s National River Linking Project and the Urbanization of Water,” Denver University, Department of Geography and the Environment, March 2021.

“The Political Ecology of Drip Irrigation Infrastructure: Efficiency and Gendered Labor Dynamics in India,” Bath Spa University, UK – Hazard, Risk and Disaster Research Group, October 2020.

“Nature-Society and Technology,” Ashoka Trust for Research in Ecology and the Environment, Bangalore, Karnataka, India, February 2020.

“Designing and Conducting Household Survey Questionnaires,” Ashoka Trust for Research in Ecology and the Environment, Bangalore, Karnataka, India, February 2020.

“Sampling in Qualitative and Quantitative Social Science Field Research,” Ashoka Trust for Research in Ecology and the Environment, Bangalore, Karnataka, India, February 2020.

“Water in the Hydrosocial Cycle: A Framework and a Case of Groundwater,” United States Consulate General, Chennai, Tamil Nadu, India, January 2020.

“Water in the Hydrosocial Cycle A Framework and a Case of Groundwater,” Science Gallery Bengaluru and Bangalore International Centre, Bengaluru, Karnataka, India, January 2020.

“Surplus and Security: India’s National River-Linking Project and its Implications for River Sharing Agreements in South Asia,” Social Science Baha & Martin Chautari,

- Kathmandu, Nepal, June 2018.
- “Assembling Drip Irrigation: Efficiency, the “Feminization of Agriculture” and Policy Implications in India,” Illinois State University, Normal, IL, November 2016.
- “Subsidizing Drip Irrigation: Efficiency & the Feminization of Agrarian Labor in India,” University of Illinois at Urbana-Champaign, Center for South Asian and Middle Eastern Studies, Champaign, IL, October 2016.
- “Subsidizing Drip Irrigation: Efficiency, the Feminization of Agriculture, and Policy Implications in Rajasthan,” Ashoka Trust for Research on Ecology and the Environment (ATREE), Bangalore, Karnataka, India, July 2016.
- “Surplus and Security: An Analysis of India’s National River-Linking Project,” The Water Institute, University of Waterloo, Ontario, Canada, April 2016.
- “Subsidizing Drip Irrigation: Efficiency and the Feminization of Agrarian Labor in India,” Ecologies of Social Difference Research Network, The Institute for Gender, Race, Sexuality and Social Difference, The University of British Columbia, British Columbia, Canada, March 2015.
- “Water in India: Water from India,” Unitarian Universalist Church of Urbana-Champaign, Champaign, IL, December 2013.
- “*Liquid Capital*”: From Agrarian to Urban (GDP) Growth in India,” Department of Geography Yi-Fu Tuan Lecture Series, University of Wisconsin-Madison, Madison, WI, October 2013.
- “Water Grabbing in India: From Agrarian to Urban (GDP) Growth,” University of Illinois at Urbana-Champaign, Center for South Asian and Middle Eastern Studies, Champaign, IL, September 2013.
- “Waiting for Water: Urbanization and Water Development in the Global South,” University of Minnesota, Interdisciplinary Center for the Study of Global Change (ICGC) and Department of Geography, Minneapolis, MN, October 2011.
- “The Politics of Groundwater Scarcity: Irrigation Technology, Social Institutions and Governance in Rajasthan, India,” Rutgers University, Department of Human Ecology, New Brunswick, NJ, November 2007.
- “Irrigated Landscapes, Produced Scarcity and Adaptive Social Institutions in Rajasthan, India,” CUNY Graduate Center, Geographies of Justice Series, New York, NY, November 2007.
- “In the Field: The Difficulties and Practicalities of a Foreigner Doing Research in Rajasthan,” Institute for Development Studies, Jaipur, Rajasthan, India, October 2005.
- “Differential Access to Access in Rural Domestic Water Supply,” Institute for Development Studies, Jaipur, Rajasthan, India, September 2005.
- “Producing Scarcity through Scarcity Reducing Technology – Tubewell Irrigation Systems and Government Drinking Water Supply Networks in Rajasthan,” School of Desert Sciences, Jodhpur, Rajasthan, India, February 2005.

Invited Papers Presented at Academic Workshops

- “Subsidizing Drip Irrigation: The (Re)Feminization of Agrarian Labor in India,” Focal Point Symposium, University of Illinois at Urbana-Champaign, Champaign, IL, April 2016.
- “Assessing India’s Drip-Irrigation Boom: Efficiency, the “Feminization of Agriculture” and Policy Implications in Rajasthan, India,” School of Oriental and African Studies (SOAS), University of London, UK, December 2015.

- “Surplus and Sacredness: The Ganga and India’s National River-Linking Project,” Conference on “The Ganga, National River of India,” University of Illinois at Urbana-Champaign, Champaign, IL, October 2015.
- “Assessing India’s Drip-Irrigation Boom: Social Institutions and Policy Implications in Rajasthan,” School of Oriental and African Studies (SOAS), University of London, UK, May 2015.
- “Socio-hydrology or Hydro-sociology: Comparing Synthetic Approaches to the Human-water Interface,” workshop on “Advancing socio-hydrology, a New Science of People and Water,” University of Illinois at Urbana-Champaign, Champaign, IL, August 2013.
- “Groundwater Policy in India: The Public-Privatization of the State,” conference on “Water and Society: Celebrating a Decade of Policy Research Partnership on Irrigation, Energy, Agriculture and Livelihoods in India,” Anand, Gujarat, India, November 2012.
- “Knowing Climate Change: Local Social Institutions and Adaptation in Rajasthan’s Groundwater Irrigation,” conference on “Water, Waves, and Weather: Climate Change and the Future of South Asia,” sponsored by American Overseas Research Centers (AIBS, AIIS, AIPS, AISLS, AIAS), Dhaka, Bangladesh, July 2011.
- “Teaching Radical Geographies,” at “Antipode Summer Institute for Geographies of Justice,” University of Georgia, Athens, GA, May/June 2007.

Discussant and Panelist on Conference Panels and Workshops

- Invited Discussant and Panelist, “STS of the Underground,” NSF sponsored workshop on the politics of underground resources, Colorado School of Mines, Golden, CO, February 2017.
- Invited Panelist, “Navigating Global Challenges Under the New U.S. Regime: Climate, Human Rights, Trade, and Migration,” sponsored by UIUC Center for Global Studies and the International and Area Studies Library (Chai Wai Series), Urbana, IL, February 2017.
- Panelist for panel session, “Critical Physical Geography in Practice 3: Dialogues Between CPG and Adjacent Fields,” American Association of Geographers, San Francisco, CA, March 2016.
- Panelist for panel session, “Towards an Atlas of Peace,” Association of American Geographers Annual Meeting, Chicago, IL, April 2015.
- Panelist and Organizer for panel session, “Author Meets Critics: Jessica Barnes' "Cultivating the Nile: The Everyday Politics of Water in Egypt," Association of American Geographers Annual Meeting, Chicago, IL, April 2015.
- Panelist for panel session, “Networked Political Ecology: Geographers Discuss the Use of "Rooted Networks," Association of American Geographers Annual Meeting, Tampa, FL, April 2014.
- Discussant for paper session, “Development Geographies: Scales, Directions, Visions,” Association of American Geographers Annual Meeting, Tampa, FL, April 2014.
- Discussant for paper session, “Critical Geographies of "Corruption" and "Accountability" in Millennial Capitalism,” Association of American Geographers Annual Meeting, Tampa, FL, April 2014.
- Discussant for paper session, “Pasts, Presents and Futures of the Indus: Temporality, Sovereignty, (In)security,” 42nd Annual Conference on South Asia, Madison, WI, October 2013.

- Panelist, “Major Findings, New Perspectives in Socio-hydrology,” workshop on “Advancing Socio-hydrology, a New Science of People and Water,” University of Illinois at Urbana-Champaign, Champaign, IL, August 2013.
- Panelist, “The Right to Water: Theories and Practices,” Association of American Geographers Annual Meeting, Los Angeles, CA, April 2013.
- Discussant for paper session, “Political Ecologies of Resolution: Assumptions, Policies, and Unintended Consequences,” Association of American Geographers Annual Meeting, New York, NY, February 2012.
- Panelist, “Development and Justice,” Department of Geography Environmental Justice Symposium, The Pennsylvania State University, University Park, PA, September 2011.
- Panelist, “Pragmatic Critique and Critical Engagement in Human-Environment Research,” Association of American Geographers Annual Meeting, Washington D.C., April 2010.
- Panelist, “Water, Science, Humans: Adventures of the Hydrosocial Cycle,” Association of American Geographers Annual Meeting, Boston, MA, April 2008.
- Discussant for paper session, “Actor-networks, Marxist Labor Theories of Value, and the Political Economies of Nature,” Association of American Geographers Annual Meeting, Boston, MA, April 2008.

Invited Public Workshops

- Poster Presentation, Penn State College of Earth and Mineral Sciences, Obelisk Society, September 17, 2021.

Interviews and News Features

- Interviewed by Dinamalar – National Tamil Daily, [“Water Matters.”](#) By Sathish Kumar V., January 30, 2020.
- Interviewed by The Hindu, [“Formulate New Water Policies.”](#) By Special Correspondent, January 30, 2020.
- Mongabay article also featured in the *Deccan Chronicle* (India) – [“So, let's talk green: Green revolution to drying water tables.”](#) By C.B. Ramkumar on March 25, 2017.
- Interviewed for Mongabay feature article, [“Climate change key suspect in the case of India’s vanishing groundwater.”](#) By Kayla Walsh on March 17, 2017.
- Guest Interviewee, “Water and Sustainability,” on Sustainable 1000 Green Radio, <http://www.sustainable1000.com>, November 2010.

III: AWARDS, GRANTS AND FELLOWSHIPS

Awards & Honors

2017. Robert McC. Netting Award “in recognition of distinguished research and professional activities that bridge geography and anthropology,” American Association of Geographers.
2017. International Women’s Day Award “in recognition of your invaluable work on behalf of

women internationally”, UIUC Women’s Resource Center.

2013. The Rutgers Board of Trustees Research Fellowship for Scholarly Excellence, Rutgers University.

Grants, Fellowships and Contracts

In Review. National Science Foundation, PI. Project Title: “Waterscapes of Modernity: Sociotechnical Imaginaries and India’s National River-Linking Project.” (\$266,414).

2021. Pennsylvania Department of Environmental Protection, PI. Project Title: “EPA National Wetland Condition Assessment.” (\$61,175).

2021. Maryland Department of Environment, PI. Project Title: “EPA National Wetland Condition Assessment.” (\$74,100).

2020-2021. USDA, Co-PI (Dr. Denice Heller Wardrop, PI). Project Title: “Remote Detection and Functional Assessments for Wetlands in the Mid-Atlantic Region.” (\$42,769).

2019-2022. Fulbright-Nehru Academic and Professional Excellence Award, PI. Project Title: “The Political Ecology of Drip Irrigation Infrastructure: Efficiency and Gendered Labor Dynamics in India.” (Approximately \$40,000).

2014-2016. University of Illinois at Urbana-Champaign. International Programs and Studies. Project Title: "Assessing the Drip Irrigation Boom: Social Institutions and Socio-ecological Change in Rajasthan, India." February 2014 (\$3,574).

2014-2016. University of Illinois at Urbana-Champaign. Campus Research Board. Project Title: “Assessing the Drip Irrigation Boom: Social Institutions and Socio-ecological Change in Rajasthan, India.” March 2014 (\$10,000).

2011-2013. American Institute of Indian Studies (AIIS). PI. Grant in support of the conference “Water and Waste: The Future of Water and Sanitation in India.” February 2013 (\$12,000).

2012-2013. Rutgers University. Faculty Research Grant Program. Project Title: “Urbanizing Water: Urban Growth and Water in India.” (\$15,572).

2010-2013. Natural Environment Research Council and Department for International Development, United Kingdom, Ecosystem Services for Poverty Alleviation Program. Co-Investigator with Kate Schreckenber, PI; Trevor Birkenholtz, Lauren Coad, Thomas Enters, Sango Mahanty, Melanie Hughes McDermott, Constance McDermott, Bernhard Mohns, Guillermo Navarro, Leo Peskett, and Ben Vickers, Co-Is. Project Title: “Safeguarding local equity as global values of ecosystem services rise.” (£236,000)

- 2010-11. American Institute of Indian Studies (AIIS). PI. Senior Research Grant. Project Title: “Knowing Climate Change: Local Social Institutions and Adaptation in Rajasthan’s Groundwater Irrigation.” (\$10,000).
- 2008-09. Rutgers University. Climate and Environmental Change Initiative. PI with Alan Robock and Georgiy Stenchikov, co-PIs (Environmental Sciences, Rutgers University). Project Title: “Regional Scale Climate Change Prediction and its Meaning for Social-Institutional Adaptation in Rajasthan, India.” (\$10,000).
- 2008-09. Rutgers University. University Research Council Grant. Project Title: “Groundwater Governance and Social Institutions in Rajasthan, India.” (\$3,000).
2008. Rutgers University. International Programs, Global Opportunity Award. Project Title: “Groundwater Irrigation Expansion and Technologies of Rule in Colonial and Contemporary India.” London India Office Records (archival research) (\$4,000).
- 2008-12. National Science Foundation. “U.S.-India Joint Workshop: Coupled Natural-Human Systems and the Challenge of Rapid Urbanization to the Resiliency of Water Systems.” Vivek Shandas, PI; Linda George, Heejun Chang, Jiunn-Der Duh, Co-PIs; Trevor Birkenholtz, Senior Personnel. NSF International Planning and Workshops, Award # 0837950 (\$49,313).
2007. Oberlin College. Grant-In-Aid. Project Title: “The Urbanization of Water: Private Wells, Water Markets, and Regulatory Reform in Rajasthan, India.” (\$2,000).
2006. The Ohio State University. Presidential Fellowship. One-year dissertation writing fellowship (\$17,500 plus tuition).
- 2004-06. United States Department of Education. Fulbright–Hays Doctoral Dissertation Research Abroad Grant (DDRA). “Political Ecology of Groundwater: Technology, Power and Difference in Rajasthan, India.” (\$33,616).
2004. Institute for International Education (IIE). Fulbright U.S. Student Program. “Political Ecology of Groundwater: Technology, Power and Difference in Rajasthan, India.” (Declined).
2003. Ohio State University – Department of Geography. Summer Fellowship (\$3,000).
2003. Ohio State University – Mershon Center Pre-Dissertation Research Grant. “Food Security: The Political Economy of Tubewell Adoption.” (\$4,598).
2002. Center for Institutional Cooperation – Foreign Language Enhancement Program, Hindi/Urdu Summer Intensive Program. University of Wisconsin: Madison (\$2,300 plus tuition).

2001. Ohio State University – Office of International Affairs. Pre-Dissertation Research Grant for research in India (\$2,000).

IV. TEACHING

Invited Intensive Graduate Seminars at International Institutions

“Is Water a Human Right,” at the Social Science Baha & Martin Chautari Foundation, Kathmandu, Nepal, June 2018.

Teaching Awards and Honors

2018. List of Teachers Ranked as Excellent, Fall 2018, GEOG 520, UIUC.
2017. List of Teachers Ranked as Excellent, Fall 2017, GEOG 587, UIUC.
2016. List of Teachers Ranked as Excellent, Fall 2016, GEOG 520, UIUC.
2016. List of Teachers Ranked as Excellent, Spring 2016, GEOG 210, UIUC.
2015. List of Teachers Ranked as Excellent, Fall 2015, GEOG 587, UIUC.
2014. List of Teachers Ranked as Excellent, Fall 2014, GEOG 595, UIUC.
2013. The Presidential Fellowship for Teaching Excellence, Rutgers University.

Courses taught at The Pennsylvania State University

Undergraduate: Research and Qualitative Inquiry in Geography; Geographic Perspectives on Sustainability and Human-Environment Systems (online); Politics of Nature.

Graduate: Human-Environment Seminar-Infrastructural Geographies.

Courses Changed or Designed at The Pennsylvania State University

2019: (New Course) “GEOG 308: Research and Qualitative Inquiry in Geography”

Courses Taught at University of Illinois at Urbana-Champaign

Undergraduate: Contemporary Social and Environmental Problems/Issues; Geographies of Globalization; Geography of South Asia; Frameworks for Sustainability, Energy and the Environment; Sustainable Development in South Asia

Graduate: Social Power, Institutions and the Environment; Qualitative Research Methods; Political Ecology

Courses Changed or Designed at University of Illinois at Urbana-Champaign

2015: (New Online Course) “GEOG 210: Contemporary Social and Environmental Issues.”

2014: (New Course) “GEOG 356: Geography of South Asia.”

2014: (Change) “GEOG 356: Sustainable Development in South Asia.”

Courses Taught at Rutgers University

Undergraduate: International Water Resources; South Asia; Advanced Conservation and Use of Natural Resources; Political Geography; History and Theory of Geography; Byrne Undergraduate Seminar “Is Water a Human Right?”

Graduate: International Water Resources; Social Power, Institutions and the Environment; Qualitative Methods; Research Design

Courses Changed or Designed at Rutgers

2007: “01:450:341, “South Asia and the Middle East” changed to “01:450:341, South Asia.”

2008: (New Course) “01:450:360, Cultural and Political Ecology.”

Courses taught at Oberlin College

Undergraduate: Environment and Society; Water and Social Power

Courses taught at Ohio State University

Undergraduate: World Regional Geography; Political Geography

Graduate: Political Geography

Graduate student mentoring

Ph.D. Primary Advisor (*ABD, **completed program) (active – 4)

Breyer, Betsy: Geography** (with Bethany Cutts, North Carolina State University) University of Illinois at Urbana-Champaign

Chen, Mei-Huan: Geography*, The Pennsylvania State University

Horton, Alison: Geography**, (with Asher Ghertner, Geography) Rutgers University

Mazurczyk, Tara: Geography*, The Pennsylvania State University

Misquitta, Karan: Geography*, The Pennsylvania State University

Prajapati, Prakriti: Geography, The Pennsylvania State University

Rai, Pronoy: Geography**, University of Illinois at Urbana-Champaign

Stock, Ryan: Geography**, University of Illinois at Urbana-Champaign

Thomas, Kimberley: Geography** (with Bonnie McCay, Human Ecology), Rutgers University

Venkatasubramanian, Kalpana: Geography**, Rutgers University

Ph.D. committees (**completed program) (active – 8)

Andrews, Margo: Geography**, Rutgers
Baumann, Megan: Geography**, The Pennsylvania State University
Burga, Carol: Geography*, University of Illinois at Urbana-Champaign
Campbell, Lindsay: Geography**, Rutgers
Chatterjee, Monalisa: Geography**, Rutgers
Fogelman, Charles: Geography**, University of Illinois at Urbana-Champaign
Goldberg, Zachary: Geography, The Pennsylvania State University
Jain, Meha: Dept. of Ecology, Evolution, and Environmental Biology** (Columbia University)
Jeffers, Jim: Geography**, Rutgers
Lakhanpal, Shikha: Geography**, University of Illinois at Urbana-Champaign
Ledermann, Samuel: Geography**, Rutgers
McGlynn, Charles: Geography**, Rutgers
Nassr, Ellie: Department of Geography*, The Pennsylvania State University
Nisa, Richard: Geography**, Rutgers
Nixon, Rebecca: Department of Forestry and Natural Resources**, Purdue University.
Ryan, Marie Louise: Geography*, The Pennsylvania State University
Sayal, Shruti: Urban and Regional Planning**, University of Illinois at Urbana-Champaign
Setyowati, Abidah: Geography**, Rutgers
Shah, Sameer**: Institute for Resources, Environment and Sustainability**, University of
British Columbia
Tubbeh, Ramzi: Geography**, The Pennsylvania State University
Vancura, Peter: Geography**, Rutgers
Vaishnava, Saumya: Geography, The Pennsylvania State University
VR, Lakshmikantha*: Ashoka Trust for Research in Ecology and the Environment, Bangalore,
India.
Zaimi, Rea: Geography**, University of Illinois at Urbana-Champaign
Zigaitis, Wendy*: Geography, The Pennsylvania State University

MGIS Primary Advisor (**completed program (active – 0)

Norton IV, Carl Reed**

MA Primary Advisor (**completed program) (active – 0)

Bjerke, Jennifer: Geography**

MA and M.Phil. Committees (**completed program) (active – 1)

Bezborodko, Ekaterina**, Rutgers
Caudill, Hannah, The Pennsylvania State University
Danza, Daniel**, Rutgers
Donovan, Robert**, Rutgers
Gable, Jacob**, Rutgers
Mohammed, Michael**, Rutgers

Pavlovic, Nathan**, University of Illinois at Urbana-Champaign
Zaimi, Rea**, University of Illinois at Urbana-Champaign

Undergraduate student mentoring

Advisor

Bahl, Clay: James Scholars Honors Credit, Titled: “*Laudato Si* in the Discipline of Human Ecology.” Spring 2016. University of Illinois at Urbana-Champaign.
Pond, Ann: James Scholars Honors Credit, Titled: “Water Privatization and Re-municipalization in France.” Spring 2014. University of Illinois at Urbana-Champaign.
Foltz-Morrison, Andrew: Honors Project, Titled: “Vague Objects: The Generative Role of Geographic Objects.” Completed May 2013. Rutgers.
Clement, Marion: Honors Project, Titled: “New Opportunities in Mapping Ethnic Settlement: A Case Study of Mapping Census Ancestry in Middlesex, New Jersey using ArcGIS and Google Earth.” Winner of the Henry Rutgers Scholars Award. Completed May 2012. Rutgers.
Hannigan, Edith: Honors Project, Titled: “What is an Environmental Refugee? A Case Study from Bangladesh.” Completed May 2009. Rutgers.

Committees

Yamane, Kae: Honors Project, Titled: “THE MAP AS MUSE: Exploring the World of Artists’ Maps.” Completed May 2013. Rutgers.
Suto, Timmothy: Honors Project, Titled: “The Geographical Context of Foodborne Illness: Geospatial and Statistical Mitigation Strategies.” Completed May 2012. Rutgers.

V: SERVICE

The Pennsylvania State University Service

Department of Geography

Faculty Advisory Committee, Ex Officio Member (2021 – Present)
Promotion and Tenure Committee, Member (2020 – 2023)
Water Systems Science Search Committee, Member (2020 – 2021)
Resident Degree Programs, Chair (2020 – 2021)
Resident Graduate Program Selection Committee, Member (2019 – 2020)
Resident Degree Programs, Member (2019 – 2020)
Ad-hoc Strategic Planning Committee, Member (2019)

College of Earth and Mineral Sciences

Faculty Advisory Committee, Chair, (2021 – 2022)
Strategic Planning Committee for Theme “Enhancing Health”, Member (2019 – 2020)
EMS Sustainability Council, Sub-Committee Research on Sustainability, Member (2019 – 2020)

University of Illinois at Urbana-Champaign Service

Department of Geography and Geographic Information Science

Remote Sensing Search Committee, Member (2016)
SESE Executive Committee, Representative (2015-2018)
Capricious Grading Committee, Member (2015-2016)
Colloquium Series, Organizer (2014-2017)
Undergraduate Committee, Member (2013-Present)

University

Department of Urban and Regional Planning Search Committee, Member (2018-2019)
LAS Committee on Academic Standards, 2017-present.
Unit for Criticism Advisory Board Member, 2017-present.
Global Studies Advisory Committee, 2016-present.
University Fulbright Interview Committee, Reader and Interviewer, 2014.
Center for South Asian and Middle Eastern Studies, Executive Committee, Member (2014-Present).
Center for South Asian and Middle Eastern Studies, Courses and Curricula Committee, Member (2013-Present).
Center for South Asian and Middle Eastern Studies, Programming Committee, Member (2013-Present).
Campus Research Board, Research Support Award, Reviewer (2: 2013-2014)

Rutgers University Service

Department of Geography:

Administrative Assistant Search Committee, (2012)
Curriculum Committee, (2011 – 2013)
Climate Change & Hydrology Search Committee, Member (2009)
Graduate Admissions Committee, Member (2008-2010)
Colloquium Series, Organizer (2008 – 2010)

University

Created a new “Minor in International and Global Studies”, School of Arts and Sciences, 2013.
Centers for Global Advancement and International Affairs (GAIA Centers), International Collaborative Research Grant 2012-2013, Proposal Reviewer (2012).
South Asia Studies Program, Executive Committee, Member (2008-2011).
Human Dimension of Vulnerability and Adaptation Search Committee (Department of Human Ecology), Member (2010 & 2011).
Institute of International Education, International Academic Partnership Program (IAPP) – India, Steering Committee, Member (2011 – 2013).

Service to Profession

External Tenure and Promotion Review

2012 – 2019 Tenure reviews completed: 8

Editorial Service

2016 – ongoing. Editorial Review Board, *Geography Focus*.

2012 – 2017. Editor, *Geography Compass*, Environment and Society Section.

Professional Organizations

Chair, Cultural and Political Ecology Specialty Group, American Association of Geographers (2014-2016)

Journal Reviews

Annals of the Association of American Geographers

Antipode

Climate Policy

Conservation and Society

Contemporary South Asia

Current Anthropology

Current Opinion in Environmental Sustainability

Environment and Planning A, B, C, D and E

Ethnos

Geoforum

Geographical Analysis

Global Environmental Change

India Review

International Journal of Agricultural Sustainability

International Journal of Urban and Regional Research

International Journal of Water Resources Development

Irrigation and Drainage

Journal of Anthropological Research

Journal of International and Global Studies

The Professional Geographer

Progress in Environmental Geography

Progress in Human Geography

Regional Environmental Change

Rural Sociology

Social and Cultural Geography

Verge

Water

Water Alternatives
Water International
WiresWater

Publisher Reviews

Ashgate
OXFAM
Routledge
University of Chicago Press
University of Georgia Press
University of Toronto Press
World Climate Research Program (WCRP)

Grant Reviews

American Institute of Indian Studies, Review Panel Chair, 2018-2019
American Institute of Indian Studies, Panel Reviewer, 2016-2019
Fulbright
National Science Foundation, Cultural Anthropology Program
National Science Foundation, Geography and Spatial Sciences Program
National Science Foundation, Science, Technology and Society Program
Netherlands Organization for Scientific Research, Responsible Innovation Program
Social Sciences and Humanities Research Council of Canada

Conferences and Symposia Organized

“Unnatural Disasters: Climate Change and the Limits of the Knowable,” with Susan Koshy, Thomas Bassett, Gillen D’Arcy Wood, Jamie Jones, Zsuzsa Gille, Jesse Ribot, Emanuel Rota, University of Illinois at Urbana-Champaign, September 2018.
“Political Ecology of Global Development and Environment: A Symposium in Honor of Professor Thomas Bassett,” University of Illinois at Urbana-Champaign, March 2017.
“Water and Waste: The Future of Water and Sanitation in South Asia,” Rutgers University, February 2013.
“Climate Change in South Asia: Governance, Equity and Social Justice,” with Robin Leichenko, Martin Bunzl, Sumit Guha, Monalisa Chatterjee and James Jeffers, Rutgers University, April 2009.

Conferences and Workshops; Organizing and Participation

Organizer and Chair, paper session on “Infrastructure, Finance and the Reworking of Water-Sanitation Hydroscapes,” Association of Geographers, New Orleans, LA, April 2018.
Organizer and Chair, Annual CAPE “James M. Blaut Plenary Lecture, by Seth Holmes,” American Association of Geographers, San Francisco, CA, March 2016.
Organizer and Chair, Annual CAPE “Robert McC Netting Plenary Lecture, by Nicholas Dunning,” American Association of Geographers Annual Meeting, San Francisco, CA,

March 2016.

Organizer and Chair, paper session on “Local Knowledge, Expert Interventions: Environmental Governance in the Age of Sustainable Development,” American Association of Geographers, San Francisco, CA, March 2016.

Organizer and Chair, paper session on “Technocrats, Wildlife and Water: Politicized Anthropogenic Natures in India and Pakistan,” 42nd Annual Conference on South Asia, Madison, WI, October 2013.

Co-organizer and Chair, paper session on “Climate Change, Equity and Social Justice in South Asia,” with Kim Thomas, Mid-Atlantic Region Association for Asian Studies Conference, Princeton University, Princeton, NJ, October 2011.

Co-organizer, double session, “Poverty Reduction, PES (Payments for Ecosystem Services) and Carbon Markets: Incorporating the *Others'* Ecosystem?” with Melanie McDermott and Gregory Simon, Association of American Geographers Annual Meeting, Seattle, WA, April 2011.

Co-organizer, discussion panel, “Teaching Regional Geography of South Asia,” with Kathleen O’Reilly, Association of American Geographers Annual Meeting, Seattle, WA, April 2011.

Co-organizer, discussion panel, “Pragmatic Critique and Critical Engagement in Human-Environment Research,” with James Jeffers, Association of American Geographers Annual Meeting, Washington D.C., April 2010.

Organizer, “Advancing Environmentalism: The Materiality of the Environmental Subject,” Association of American Geographers Annual Meeting, Boston, MA, April 2008.

Co-organizer, “Actor-networks, Marxist Labor Theories of Value, and the Political Economies of Nature,” with Harold Perkins, Association of American Geographers Annual Meeting, Boston, MA, April 2008.

American Association of Geographers Committees

Chair, Cultural and Political Ecology Specialty Group (2014-2016)

Proposal Reviewer, Graduate Student Affinity Group Research Award (2011)

At Large Councilor, Cultural and Political Ecology Specialty Group (2008-2010)

VI: MISCELLANEOUS

Professional Affiliations

2002 – Present, Association of American Geographers (AAG)

2003 – Present, Rajasthan Studies Group

Languages

Hindi – Intermediate Level