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Education

Ph.D. Political Science, Massachusetts Institute of Technology – MIT
MSc. Political Science, Massachusetts Institute of Technology – MIT
B.S. Economics, Universidade Federal de Juiz de Fora – UFJF (Brazil)

Professional Experience

University of Michigan School for Environment and Sustainability – Ann Arbor, MI
2015-2020 Associate Dean for Research and Engagement
2012-present Professor of Environment and Sustainability
2006-2012 Associate Professor of Natural Resources and Environment
2002-2006 Assistant Professor of Natural Resources and Environment
2003-present Faculty Associate, Program of the Environment, University of Michigan

University of Arizona Latin American Area Center – Tucson, AZ
2000-2002 Assistant Professor of Latin American Studies
1998–2000 Assistant Research Professor of Latin American Studies
1996-1997 Post-Doctoral Fellow

Other Affiliations:

Columbia University Biosphere II Earth Semester – Oracle, AZ
1997-1998 Visiting Professor
Udall Center for Studies in Public Policy – Tucson, AZ
2000-present Senior Policy Scholar
Oxford University – Environmental Change Institute (ECI) – Oxford, England
2006-2007 James Martin 21st Century School Fellow
Harvard University – John F. Kennedy School of Government
1999-2001 Faculty Fellow, Global Environmental Assessment (GEA) Project

Honors and Fellowships

Graduate Studies Scholarship - CAPES, Brazilian Ministry of Education, 1988-1992.
MIT-Center for International Studies/MacArthur Program in Transnational Security Summer Research Grant, 1992.
MIT-Center for International Studies International Energy and Environment Policy Grants, Japan Endowment Fund, Japanese Ministry of Foreign Affairs. Dissertation Grant 1991-1992
James Martin 21st Century School Fellowship, Environmental Change Institute, Oxford University, England. July 2006-2007.
Kavli Fellow, US National Academy of Sciences, 2007.

Certificate of Tribute by Governor Jennifer M. Grandholm (Michigan) to honor contributions to the science of global climate change” in conjunction with “the Intergovernmental Panel on Climate Change (IPCC), 2008.

National Science Foundation Distinguished Lecture. “Building Adaptive Capacity to Climate Change”. March 12, 2015. Washington DC.

The Governor’s Award for Environmental Excellence. Office of the Governor, Indiana. U2U—for Useful to Usable, a research project focused on improving climate decision making among corn farmers in IN, MI, IA and NE and funded by the US Department of Agriculture (USADA).

Journal/Peer-Reviewed Articles:

Lu, J., MC Lemos et al., (2022). Scaling up co-produced climate-driven decision support tools for agriculture. *Nature Sustainability*, 2022. **5**(3): p. 254-262.

Dilling, L, MC Lemos, N. Singh (2021). First Do no Harm: Scaling Actionable Knowledge for Just and Equitable Outcomes. *Global Environmental Change*, **71**, 102404

Treuer, G., C. Kirchhoff, M. C. Lemos & F. McGrath (2021) Challenges of managing harmful algal blooms in US drinking water systems. *Nature Sustainability*, pp.1-7.

Xu, M., et al., U.S.–China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. *Environmental Science & Technology*, 2021. **55**(14): p. 9622-9626.

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Arnott, J. C. & M. C. Lemos (2021) Understanding knowledge use for sustainability. *Environmental Science & Policy*, **120**, 222-230.

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Varady, R. G., T. R. Albrecht, A. K. Gerlak, M. O. Wilder, B. M. Mayer, A. Zuniga-Teran, K. C. Ernst & M. C. Lemos (2020) The exigencies of transboundary water security: insights on community resilience. *Current Opinion in Environmental Sustainability*, **44**, 74-84.

Morrison, T. H., W. N. Adger, K. Brown, M. Hettiarachchi, C. Huchery, M. C. Lemos & T. P. Hughes (2020) Political dynamics and governance of World Heritage ecosystems. *Nature Sustainability*, **3**, 947-955.

Lemos MC, PB Peregrina, RM Formiga-Johnsson, SC Kate (2020). Building on adaptive capacity to extreme events in Brazil: water reform, participation, and climate information across four river basins. *Regional Environmental Change* **20** (2)

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Mach KJ, MC Lemos, AM Meadow, C Wyborn, N Klenk, JC Arnott (2020). Actionable knowledge and the art of engagement. *Current Opinion in Environmental Sustainability* **42**, 30-37

- Dewulf A, N Klenk, C Wyborn, MC Lemos (2020). Usable environmental knowledge from the perspective of decision-making: the logics of consequentiality, appropriateness, and meaningfulness. *Current Opinion in Environmental Sustainability* 42, 1-6
- Arnott JC, RJ Neuenfeldt, MC Lemos (2020). Co-producing science for sustainability: can funding change knowledge use? *Global Environmental Change* 60
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- IPCC AR-5 WGII (2014) Chapter 20. Climate-Resilient Pathways: Adaptation, Mitigation, and Sustainable Development. Coordinating Lead Authors: Fatima Denton (Gambia), Thomas Wilbanks (EUA). Lead Authors: Achala Abeyshinghe (Sri Lanka), Ian Burton (Canada), Q. Gao (China), Maria Carmen Lemos (EUA), T. Masui (Japan), Karen O'Brien (Norway), Koko Warner (Germany).
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- National Research Council (2010). *Advancing the Science of Climate Change*. America's Climate Choices: Panel on Advancing the Science of Climate Change; National Research Council of the National Academy of Sciences. Co-author with 16 other authors.
- National Research Council (2009). Restructuring Federal Climate Research to Meet the Challenges of Climate Change. Committee on Strategic Advice on the US Climate Change Science Program. National Research Council of the National Academies, Washington DC. Co-author with 17 other authors.
- Ingram, H., D.L. Feldman, K.L. Jacobs, N. Mantua, M.C. Lemos, B. Morehouse, A. M. Waple, and N. Beller-Simms (2008) Looking Toward the Future. In: *Decision-Support Experiments and Evaluations using Seasonal-to-Interannual Forecasts and Observational Data: A Focus on Water Resources*. A Synthesis Assessment (SAP 5.3) Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Nancy Beller-Simms, Helen Ingram, David Feldman, Nathan Mantua, Katharine L. Jacobs, and Anne M. Waple (eds.)]. NOAA's National Climatic Data Center, Asheville, NC, pp. 141-154.
- Lemos, M.C. (2007). Drought, Governance and Adaptive Capacity in North East Brazil: A Case Study of Ceará. In *Fighting climate change: Human solidarity in a divided world*. *Human Development Report 2007/2008*. Human Development Report Office.
- Wilbanks, T.J., P. Romero Lankao, M. Bao, F. Berkhout, S. Cairncross, J.-P. Ceron, M. Kapshe, R. Muir-Wood and R. Zapata-Marti (lead authors); M. Agnew, R. Black, T. Downing, S.

Gossling, M.C. Lemos, K. O'Brien, C. Pfister, W. Solecki, C. Vogel (contributing authors) (2007): Industry, settlement and society. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 357-390.

National Research Council (2007). Evaluating Progress of the U.S. Climate Change Science Program: Methods and Preliminary Results, National Research Council (NRC). National Research Council of the National Academies, Washington DC. Co-author with 17 other authors.

Book Chapters:

Lemos, MC and N Klenk (2020). Uncertainty and precariousness at the policy-science interface. In *The Politics and Science of Prevision Governing and Probing the Future*. Edited by Andreas Wenger, Ursula Jasper and Myriam Dunn Cavelti. Routledge, London and New York.

Lemos, M.C. and C. Kirchhoff (2016). Climate Information and Water Management: building capacity or business as usual? Edited by Ken Konca and Erica Weinthal. *Oxford Handbook of Water Politics and Policy*. Oxford University Press, Oxford: UK.

Simpson Caitlin, Lisa Dilling, Kirstin Dow, Kirsten Lackstrom, Maria Carmen Lemos, and Rachel Riley (2016). "Applying different approaches to assessing needs and decision contexts." In *Climate in Context*. Adam Paris, Greg Garfin and Ryan Meyer, editors. Wiley and Sons.

Lemos, M. C., A. Agrawal, H. Eakin, D. Nelson, N. Engle and O. Johns. Building Adaptive Capacity in Less Developed Countries (2013). *Climate Science for Serving Society: Research, Modeling and Prediction Priorities*. G. R. Asrar and J. W. Hurrell, Eds. Springer, pp. 437-457.

Prokopy, L. S., A. S. Mase, R. Perry-Hill, and M. C. Lemos, 2013: Assessing Vulnerabilities and Adaptation Approaches: Useful to Usable Tools. *Climate Vulnerability: Understanding and Addressing Threats to Essential Resources*. Elsevier Inc., Academic Press, pp. 129–137.

Lemos, M. C. and E. Boyd (2009). The Politics of Adaptation across scales: the implications of additionality to policy choices and development. In Maxwell Boykoff, ed. *The Politics of Climate Change: A Survey*. Routledge/Europa.

Lemos, M. C. and A. Agrawal (2009). Environmental Governance and Political Science. In Magali Delmas and Oran R. Young, eds. *Governance for the Environment—New Perspectives*. Cambridge University Press.

Lemos, M. C., R. M. Formiga Johnsson, D. R. Nelson and N. Engle (2009). Informação técnica e gestão participativa de bacias hidrográficas no Brasil. In Rebecca N. Abers, ed. *Atores, Instituições, e Poder nos Organismos Colegiados de Bacia Hidrográfica no Brasil*. São Paulo: Editora Annablume, p. 173-194.

Abers, R. N.; Formiga-Johnsson, R. M. ; Frank, B. ; Keck, M. E. ; Lemos, M. C. (2008). Stakeholder councils and river basin management in Brazil: democratizing water policy? In: Leila da Costa Ferreira; Laura Duarte. (Org.). *Diálogos em ambiente e sociedade no Brasil II*. São Paulo: Annablume, v. 2, p. 159-194.

Lemos, M. C. (2008). "Whose water is it anyway? Water management, knowledge, and equity in NE Brazil". In *Water, Place and Equity*. John Whiteley, Richard Perry and Helen Ingram, eds. MIT Press: Cambridge, MA, pp. 249-270.

Lemos, Maria Carmen (1998). "Popular Participation and Pollution Control in Brazil." In Frans H. J. M. Coenen, Dave Huitema and Laurence J. O'Toole, Jr. eds. *Participation and the Quality of Environmental Decision Making*. Dordrecht, Netherlands: Kluwer Publishers.

Other Publications:

- González, J. E. J. J. E. (2017) Central America and the Caribbean: The pulse of climate change. *Eos*, 98, 13-15.
- Lemos, M. C. and C. Kirchhoff (2014). "BOUNDARY ORGANIZATIONS." *Essential Concepts of Global Environmental Governance*: 16. Routledge.
- Hulme, M., M. Boykoff, et al. (2009). "Conference Covered Climate from All Angles." *Science* **324**(5929): 881-882.
- Lemos, M.C., A Bell, N Engle, R Formiga-Johnsson, D Nelson (2009). Technical knowledge and democratic decision-making: building adaptive capacity of freshwater systems in Brazil. *Climate Change: Global Risks, Challenges and Decisions IOP Publishing, IOP Conf. Series: Earth and Environmental Science* 6.
- Lemos M. C., D. Nelson and R. Formiga-Johnsson (2007). Uso de conhecimento técnico-científico e democratização da gestão das águas no Brasil: análise preliminar do survey Marca d'Água. Proceedings of the XVII Simpósio Brasileiro de Recursos Hídricos, Associação Brasileira de Recursos Hidricos, São Paulo, Brasil (full article).
- Engle, N and M. C. Lemos (2007). Capacidade de adaptação às mudanças climáticas e gerenciamento de recursos hídricos no Nordeste brasileiro: estudo preliminar. Proceedings of the XVII Simpósio Brasileiro de Recursos Hídricos, Associação Brasileira de Recursos Hidricos, São Paulo, Brasil (full article).
- Lemos, M.C., Recharte, J. and Chang, C.T. (2007). Integration of Social Science in the UNESCO's Ecohydrology Programme. A report submitted by the UNESCO's Ecohydrology Programme Social Science Task Force, April 2007.
- Abers, R., R. Formiga-Johnsson, B. Frank, M. Keck and M.C. Lemos (2006). Stakeholder Councils and River Basin Management in Brazil Democratizing Water Policy? Proceedings of the XXVI Latin American Studies Association Congress, Puerto Rico, March 15-18, 2006 (full article).
- Engle, N., M.C. Lemos, L. Kumler and R. Abers (2006). The Watermark Project: Analyzing water management reform in Brazil. *Journal of the International Institute*. University of Michigan, Ann Arbor.
- Comrie, A.C., Lemos, M.C., Hughes, M.K. and Overpeck, J.T. (2004). Climate science and services: some lessons from CLIMAS. Preprints, American Meteorological Society Annual Meeting and 13th Conference on Applied Climatology, Seattle, WA, Jan 11-15 (full article).
- Lemos, M. C. (2004). Invited Book Review of "Late Victorian Holocausts: El Niño Famine and Making of the Third World by Mike Davis." Verso: New York, NY, 2001. *Bulletin of the American Meteorological Society*.
- Lemos, M. C., D. Nelson, T. Finan, R. Fox, D. Mayorga and I. Mayorga (2001). The social and policy implications of seasonal forecasting: a case study of Ceará, Northeast Brazil. Project Report, National Oceanographic and Atmospheric Administration.
- Austin, D., R. D. Varady, R. Merideth, R. Trautman, and M. C. Lemos (1998). Evaluation of the WaterWorks Program for The Pew Charitable Trusts by the Udall Center for Studies in Public Policy at The University of Arizona.

Grants and Contracts

National Oceanic and Atmospheric Administration – NOAA – grant for: “Great Lakes Integrated Scientific Assessment—GLISA”. PI (Co-PIs, Jeff Andresen, Richard Rood, Derek Van Berkel, Michael Notaro, Tom Kenote. \$5.4M. 2021-2026.

Gulf Research Program of the National Academy of Sciences—GRP/NAS—grant for: “Making Gulf Communities More Resilient: Scaling-up Customized Vulnerability Assessment for Extreme Events in Gulf Cities”. PI (Co-PIs Mark Schaffer, Gabrielle Wong-Parodi, Patty Goode). \$2,190,667. 2019-2022.

National Oceanic and Atmospheric Administration – NOAA – grant for: “Great Lakes Integrated Scientific Assessment—GLISA” Bridge year. PI (Co-PIs Jeffrey Andresen, Richard Rood, Michael Notaro). \$ 850,000. 2020-21

National Oceanic and Atmospheric Administration – NOAA –grant for: Scaling up Stakeholder Engagement Workshops for Lake Ice. PI (co-PI Ayumi Manome). \$108,000. 2019-2021

National Oceanic and Atmospheric Administration – NOAA – grant for: NERRS Science Collaborative Program. Co-PI (PI Jennifer Read et al.). \$ 20,000,000. 2019-2024.

National Oceanic and Atmospheric Administration – NOAA – grant for: Co-producing Climate Knowledge and Sustained Engagement in the Great Lakes in Support of Stormwater Management Adaptation. PI, \$175,000, 2018-19.

National Science Foundation. Coastal SEES: Enhancing sustainability in coastal communities threatened by harmful algal blooms by advancing and integrating environmental and socio-economic modeling, PI Steiner, co-PIs Lemos, Scavia, Kirchhoff, Obenaour, \$1,996,139, 9/1/2016-3/31/2019.

National Oceanic and Atmospheric Administration – NOAA – grant for: “Great Lakes Integrated Scientific Assessment—GLISA”. PI (Co-PIs, Thomas Dietz, Jeff Andresen, Richard Rood, Ken Frank \$ 3,750,000 2015-20.

National Oceanic and Atmospheric Administration – NOAA – grant for: NERRS Science Collaborative Program. Co-PI (PI Don Scavia et al.). \$ 20,000,000. 2014-2019.

University of Michigan-Fapesp collaboration Small Grant. Building Adaptive Capacity in Brazilian Cities. Co-PI with Gabriela di Giulio. 2014-15. \$20,000.

National Oceanic and Atmospheric Administration – NOAA – grant for: Evaluating the Impact of Extreme Drought on Farmer Advisors: Perceptions of Climate Risks in the US Corn Belt. Co-PI (PI Linda Prokopy et al.). 2013-15.

Graham Environmental Sustainability Institute (GESI) and Kresge Foundation—grant for: Great Lakes Cities Climate Adaptation Integrated Assessment (GLCCAIA). Co-PI (PI Arun Agrawal). \$ 1,200,000.

National Science Foundation—NSF—grant for: “The relative importance of generic vs. specific capacity in addressing drought vulnerability in NE Brazil. PI (Co-PIs Don Nelson and Hallie Eakin). 2010-2013. \$ 510,000

United States Department of Agriculture—USDA—grant for: U2U: Useful to Usable: Transforming Climate Variability and Change Information for Cereal Crop Producers. Co-PI. (PI Linda Prokopy et al). 2010-2015. \$ 5,000,000.

National Science Foundation—NSF—grant for: “Water Science Climate—WSC.” Co-PI (PI Anna Michalak et al). 2011-2015. \$ 5,000,000.

National Science Foundation—NSF—“Landscapes in the Anthropocene: Exploring the Human Connections” (funding for a workshop held at the U. of Oregon). Co-PI (with Ann Chin (PI), Mary English, Carol Harden and Ellen Whol. 2010. \$49,558.

National Oceanic and Atmospheric Administration – NOAA – grant for: “Great Lakes Integrated

Scientific Assessment—GLISA”. Co-PI (Don Scavia PI et al). 2010-15. \$ 4,200,000.

School of Natural Resources and Environment Seed Grants. 2008-2009. \$ 6,800 and 2010-2011. \$10,000.

The Graham Environmental Sustainability Institute (GESI) “Integration of physical and social sciences for development of a sustainable water resource policy in Bolivia, South America”. Co-PI (with Chris Poulsen (PI), Todd Ehlers and Allison Steiner. 2008-2011. \$191,475.

National Science Foundation—NSF—“The Role of Knowledge and Governance in Building Adaptive Capacity to Climate Variability and Change: A Comparative Study of Water Systems in Brazil.” PI 2007-2009. US\$ 189,000.

National Oceanic and Atmospheric Administration – NOAA – grant for: “Climate, Water Scarcity and Management in Brazil and Chile. 2003-2005. PI (with Alejandro Leon and Margaret Keck), 2003-2006. US\$ 229,863.

National Institute of Health—NIH—grant for: “Mexico: Maquila, Environmental Vulnerability and Health”. Co-PI (with Sioban Harlow (PI), Catalina Denman and Francisco Lara, 2003-2006. US\$ 284,272.

Advanced Study Center, International Institute, University of Michigan—grant for: “A Case Study of the Mesoamerican Biological Corridor in Nicaragua,” PI (with Ivette Perfecto and John Vandermeer), 2003. US\$ 5,000.

National Oceanic and Atmospheric Administration – NOAA – grant for: "Climate Assessment of the Southwest" (CLIMAS). Co-PI for Institutional Analysis (with PI: Jonathan Overpeck et al.), 2002-2003. US\$ 750,000/year.

National Science Foundation – NSF – a grant for: "The Impact of the Use of Techno-Scientific Knowledge in Water Management: institutional adaptation and public participation in a comparative perspective, PI, 2002-2005. US\$ 135,000.

National Oceanic and Atmospheric Administration – NOAA – grant for: "Climate Assessment of the Southwest" (CLIMAS). Co-PI for Institutional Analysis (with PI: Roger Bales et al.), 2001. US\$ 654,786.

National Oceanic and Atmospheric Administration - NOAA - grant for: "Use and Usefulness: a Comparative Study of Seasonal Climate Forecasting Systems in Drought-affected Regions of Latin America". Co-PI (with Tim Finan, Roger Fox, Alejandro Leon, and Don Nelson). 2000-2003. US\$ 298,374.

The Pew Charitable Trusts. grant for: "Evaluation of the WaterWorks Program." Co-PI (with Robert Varady, Diane Austin, and Robert Merideth). Oct. 1997-Jun. 1998. US\$ \$57,000.

University of Arizona Social and Behavioral Science Research Institute Small Grant for "The Impact of BECC on popular mobilization in Nogales, Mexico." 1998-99. US\$ 1,499.

National Oceanic and Atmospheric Administration - NOAA - grant for: “The social and policy implications of seasonal forecasting: a case study of Ceará, Northeast Brazil.” PI (with Tim Finan, Diana Liverman, Roger Fox and Nilton Rennó), 1997-2000. US\$ 360,000.

Udall Center for Studies in Public Policy - grant for the research: “Environmental protection and social movements in Ambos Nogales: the impacts of the BECC on popular participation,” 1996-97. US\$ 5,000.

National Science Foundation - grant for: “A survey of the research and researchers relating to human dimensions of global environmental change in Latin America” Co-PI with Diana Liverman (PI), 1996. US\$ 15,000.

Scholarly Presentations and Workshops

- "The Cubatão Pollution Control Case" – paper presented at the Latin American Studies Association – LASA, Guadalajara, Mexico, April 1997.
- "Políticas públicas: teoria e prática" – invited lecture at the Universidade Federal do Ceará, Brazil, August, 1997.
- "The Policy Implications of Seasonal Climate Forecasting in Ceará, Brazil" – paper presented at the Latin American Studies Association–LASA, Chicago, 1998.
- "The Impact of BECC on Popular Participation in Nogales, Mexico" – invited lecture at the Earth Semester, Columbia University Biosphere II Campus, Oracle, AZ.
- "The Politics of Pollution Control in Brazil: the case of Cubatão" – invited lecture at the University of California at Santa Cruz, February, 1999.
- "The Use of Seasonal Climate Forecasting in Policymaking: Can Science Save Northeast Brazil?" – paper presented at the American Geophysical Union Meeting, Boston, May-June, 1999.
- "The Use of Climate Forecast in Policymaking: lessons from Northeast Brazil" – paper presented at the 1999 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Kanagawa, Japan, June 1999.
- "Science-policy interaction in the use of seasonal climate forecasting" – invited lecture at the Columbia University Biosphere II Campus, Oracle, AZ, July 1999.
- "The socioeconomic and political implications of seasonal climate forecasting in Brazil: lessons from Ceará" invited presentation at the NOAA Economics and Human Dimensions of Global Change Workshop – Tucson, AZ, April 1999.
- "The Use of Climate Forecast in Policymaking: the case of Ceará, Brazil" invited presentation at the Extreme Events Workshop, NCAR Mesa Laboratory, Boulder, CO, June 2000.
- "The Social and Policy Implications of Seasonal Forecasting Use: Can Science Save Northeast Brazil?" invited presentation at the Climate, Water, and Transboundary Challenge in the Americas, University of Santa Barbara, Santa Barbara, CA, July 2000.
- "Looking for sustainability: environmental coalitions across the state/society divide." Invited presentation at the Xth World Congress of Rural Sociology, International Sociological Association Research Committee on Environment and Society Mini-conference: "Sociological Reflections on Sustainability" Rio de Janeiro, Brazil, August 2000.
- "Can Science Save Northeast Brazil?". Paper presented at the 2001 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Rio de Janeiro, Brazil, October 6-8, 2001.
- NOAA Human Dimensions PI Meeting, Charleston, SC, October 2002. Institutional Context for Forecast Use. Invited Panel Chair
- "Water Reform across the state/society divide: looking for synergy in the case of Ceará, Brazil". Invited presentation. Taller internacional en participación pública y privada en el sector hidráulico, 25-26 septiembre, Ciudad de México, organized by the Third World Centre for Water Management, Mexico City, Mexico, September, 2002.
- "Can Science Save Northeast Brazil? Seasonal climate forecasting and Drought Planning in Ceará. Invited Lecture. IV Annual José Martí Lecture on Freedom Struggles in the Americas, a college wide lecture at the College of the Holy Cross, Worcester, MA, March 2003.
- "Democratization of Knowledge in Water Management in Brazil: lessons from Ceará" (also chaired the panel). Paper presented at the XXIV Latin American Studies Association Conference, March 27-29, 2003, Dallas, TX.
- "Ethics, Science, and Policy: Environmental Education in a Transnational World". Invited lecture. Faculty Development Seminar at the College of the Holy Cross, sponsored by the Carnegie Council on Ethics and International Affairs. Worcester, MA, May, 2003.

- “Public Policymaking and Institutional Change in Latin America”. Invited lecture. Department of Agricultural Economics, Universidad de Chile, Chile, June 2003.
- “Teoria de Políticas Públicas e Tomada de Decisão”. Invited lecture. Department of Agricultural Economics, Federal University of Ceará, Ceará, Brazil. July 2003.
- “Water, institutions and knowledge: a comparative analysis of decisionmaking in Arizona, United States and Ceará, Brazil.” Paper presented at the International Meeting of the Human Dimensions of Global Change Community, Montreal, October 2003.
- “Policy and Socioeconomic Impacts of Seasonal Climate Forecast: Can Science Save Northeast Brazil?. Invited Lecture. Science, Environment and Technology Group, Center for International Development, Kennedy School of Government, Harvard University, October 3, 2003.
- “The Co-Production of Science and Policy in Integrated Climate Assessments”, poster presented at the 2003 American Geophysical Union Fall Meeting, December, 2003 (also chaired session).
- “How Do We Integrate Academia and Activism? Moving Towards Participatory Research and Academic Activism”. Environmental Justice Climate Change Student Conference, School of Natural Resources and Environment, March 26 - 28 2004. Panel Discussant.
- “Public Policy, Globalization and Social Actors”. Invited mini-course. Colegio de Sonora, Sonora, Mexico, May 2004.
- Decision Support Systems for Seasonal to Interannual Climate Forecasting, National Academy of Sciences workshop, Irvine, CA May 6-8, 2004.
- “O uso de previsões climáticas em políticas públicas no Nordeste do Brazil.” Invited presentation, Fundação Cearense de Meteorologia (FUNCEME) (with Don Nelson), August, 2004.
- “The Brazilian water reform in comparative perspective: the role of technoscientific knowledge in decisionmaking at the watershed level.” Paper presented at the XXV Latin American Studies Association Conference, Las Vegas, October 4-7, 2004. Also organized and chaired the panel “Water Reform in Brazil.”
- “Can Science Save NE Brazil: the politics of seasonal climate forestation application. Invited Lecture. Engineers Beyond Borders, College of Engineering, University of Michigan, November 2004.
- Workshop on the Climate Vulnerability Index (CVI). Sponsored by UNESCO-HELP Basins Program. Guayaquil, Ecuador, March 21-23, 2005.
- “The coproducion of science and policy: lessons from the climate community.” Carbon Cycle Decision Making Support Workshop. June 12-13, 2005, Boulder, CO. Also member of Executive Committee.
- “Technoscientific knowledge, institutions and democratic decentralization: lessons from Brazil’s water reform.” Paper presented at the International Meeting of the Human Dimensions of Global Change Community, Bonn, Germany, October 2005.
- “Water reform in Brazil”. Invited presentation at the UNESCO Consultative workshop: Towards integrating social & cultural aspects into ecohydrology. Paris, France, 7 – 8 December, 2005.
- “Can Science Save NE Brazil? Climate, knowledge and policy”. Invited talk at the Center for Brazilian Studies, Oxford University, November 8th, 2006.
- “Climate forecasting, water management and adaptation in NE Brazil”. QUEST Earth System Science Summer School, Bristol University, Bristol, U.K., September 11th, 2007.

“Governance and Climate Change”. Climate Change Boot Camp, Environmental Change Institute, Oxford University, UK.

“Some win, some loose but all have to adapt”. Invited Presentation, American Meteorological Association Presidential Forum. San Antonio, TX, January 15th, 2007.

“Impactos, Vulnerabilidade e Adaptação”. Invited Plenary Speaker. III Conferência Regional sobre Mudanças Globais: América do Sul, 04 e 08 de novembro de 2007, São Paulo Brazil.

“How can technoscientific knowledge help adaptation? Climate, water and governance in less developed countries” Nineteen Annual Kavli Frontiers of Science Symposium National Academy of Sciences Arnold and Mabel Beckman Center - Irvine, California November 8-10, 2007

“The role of knowledge and governance in building food security: institutions, challenges and adaptive development”. Invited Plenary Speaker. Food Security & Environmental Change: an International Conference, 2 – 4 April 2008, St Catherine’s College, Oxford, UK.

“Aumentando a capacidade de Adaptação de sistemas de recursos hídricos no Brasil: Governança, Conhecimento e Instituições”. Invited Plenary Speaker. WIPIS Workshop, University of São Paulo, USP, São Carlos, June 30-July 3rd, 2008.

“Technical knowledge and democratic decision-making: building adaptive capacity of fresh water systems in Brazil”. Climate Change: Global Risks, Challenges and Decisions, Copenhagen, March 10-12, 2009.

“Can Science Save NE Brazil? Invited Keynote Speaker, Beckham Center, University of Illinois, February 2010.

“Building adaptive capacity of water governance in Brazil”. Invited Presentation. Adapting to Climate Change: Insights from the Social Sciences. Workshop organized by the Human Dimensions of Global Change Committee, National Research Council/National Academy of Sciences, April 8-9, 2010

“Building Adaptive Governance under Climate Change: Knowledge, democracy and diversity in water management in Brazil”. Association of American Geographers Meeting, Washington DC, April 12-16, 2010

“Adaptive Development”. Resilience 2011, Tempe, AZ, March 10-14, 2011.

“Building Adaptive Capacity of Water Governance”. Invited Talk at University of California, Davis. April 15, 2011.

“Building Adaptive Capacity of Water Governance: Legacies, Tensions and the Next Best Thing”. Invited Talk, Oregon State University and Portland State University. May 18 and 19, respectively.

“Building Adaptive Capacity in Less Developed Countries.” Invited Plenary Speaker. World Climate Research Program Conference (WCRP). Denver, Oct 25-28, 2011.

Workshop in Political Theory and Policy Analysis. Invited Lecture. University of Indiana, Bloomington, April 23, 2012.

“Capacidade de Adaptacao e as cidades”. Invited Panel Speaker. Seminário Internacional: Metropolização Brasileira e os Desafios da Gestão Urbana: O papel da pós-graduação. CAPES, Brasilia, May 5-8, 2012.

“Building Adaptive Capacity in Less Developed Countries.” Invited Plenary Speaker. Adaptation Futures Conference. Invited Plenary Speaker. Tucson, AZ, May 28-31, 2012.

“Estratégias para diminuir a distancia entre a ciência da sustentabilidade e a sociedade: Interdisciplinaridade; Interação e a criação de ‘usable science’.” Invited lecture. University of Sao Paulo in Sao Carlos, Brazil. September 19, 2012.

“Narrowing the Gap”. Invited lecture, Purdue University, West Lafayette, IA, November 12, 2012

Advancing Careers in Interdisciplinary Research Workshop. Invited Speaker. Abess Center for

Ecosystem Science and Policy, University of Miami, Miami, February 11, 2013
“Narrowing the Climate Information Usability Gap in Latin America”. Invited Speaker. The second Colloquium on *Knowledge Integration at the Science-Policy Interface* (C2013), Quito, Ecuador, April 7-13, 2013.

Invited Lecture. Building Adaptive Capacity in Less Developed Countries. Sao Jose dos Campos, Brazil, Brazilian Space Institute (INPE). August 2013.

Invited Presentation. Water Governance and Climate in Brazil. Water Transitions Workshop. University of Sao Paulo, Brazil, Oct 24-26, 2013.

Keynote Speaker. Water Governance, Knowledge and Adaptive Capacity: lessons from Brazil. In METRICS AND MEASUREMENT OF ADAPTATION: Advances in Water Research in the Arid Americas, October 1-3, 2014, University of Arizona, Tucson, Arizona.

Keynote Speaker. Construindo capacidade adaptativa nas cidades. Workshop “Adaptação climática em megacidades: refletindo sobre impactos, demandas e capacidades de resposta de São Paulo.”. Universidade de Sao Paulo, 23 e 24 de outubro de 2014, São Paulo, SP

Building adaptive capacity in less developed countries. Invited Department Lecture, Department of Geography, University of Arizona. November 2015.

Building Adaptive Capacity to Climate Impact. Keynote Speaker. Undergraduate Research Symposium April 7-8, 2016 at the University of Puerto Rico-Rio Piedras

Invited Presentation: A Tale of Two Uncertainties. Workshop: The Potentials and Pitfalls of Predicting Politics. ETZ, August 26-27, 2016.

Teale Lecture: Building Adaptive Capacity for Adapting to Climate Change. March 30, 2017. University of Connecticut. This is a University wide lecture series. Information can be seen at <http://lib.uconn.edu/about/events/tealelectures/>

Keynote Speaker: Building Adaptive Capacity to Climate Change. Adapting to Climate Change: Actions, Implementations and Outcome. April 28-May 1, 2017. University of Notre Dame.

Departmental lecture: The role of knowledge in building adaptive capacity to climate change. University of Washington, Seattle, February, 2018

Departmental lecture: Knowledge coproduction. Environmental Sciences Program. University of Colorado Boulder, February 2018.

Workshop on Polycentric Governance and the Great Barrier Reef, organized by James Cook University, Cassis, France, March 2018.

Keynote Speaker: Brazilian Theoretical Ecology Conference, RABECO, Campinas, Brazil, August 2018.

The Water Institute Lecture: Building Adaptive for Water Management. University of Waterloo, Canada, January 2019.

Courses taught:

At the University of Arizona:

LAS 501 Environmental Policymaking in Latin America
LAS 595D Contemporary Issues in Brazilian Politics
LAS 595C Public Policy in Latin America
IND 102 Modern Latin America
LAS 500 Latin American Studies Introductory Seminar

At the University of Michigan:

UC212/ENVIRON212 Global Change III Institutions and Policy Response

NRE 677 Institutions for Environmental Policymaking in Brazil
NRE 677 Integrative Research Seminar: Integrated Conservation and Development
Projects: Practices, Problems, and Potential (faculty advisor)
NRE 501 Environmental Policymaking in Latin America
ENViron313 Environment and Development: Dilemmas of Power and Place in a Global
World
NRE 677 Graduate Seminar on Environment and Development
NRE 580 Integrated Problem Solving (with Don Scavia)
NRE 563 International Environmental Policy
NRE 555 Climate and Development
ENVIRON 321 Adaptation and Development
NRE 741 Research Paradigms

Service:

At the University of Arizona:

Latin American Area Center, Admission Committee, 1997- 2001.
Latin American Area Center, Graduate Advisor, 1999.
Portuguese Task Force, Department of Spanish and Portuguese, University of Arizona,
member, 1999.
Search Committee for the Udall Center/Ford Foundation Fellow, member, 2000.
Latin American Studies Travel Committee, chair, 2000-01.
Latin American Studies FLAS Committee, chair, 2000-01.
Fulbright Scholarship Committee—University of Arizona, member, 2000.
Faculty Ace— University of Arizona, 2000.
Brazil Studies Group at the University of Arizona, chair, 1999-2001.
Tinker Travel Grant Committee—Latin American Area Center: member (1998), chair, 1999-
2000.
Global Change Committee for the Institute for the Study of Planet Earth (ISPE), University
of Arizona, member, 1999-2002
Search Committee for Portuguese Professor, Department of Spanish and Portuguese,
College of Humanities, member, 2001.

At the University of Michigan:

Fulbright Campus Interview Committee, International Institute, University of Michigan,
member, 2003, 2008, 2011.
Summer Research Grant Committee, Latin American Center, University of Michigan,
member, 2003.
Foreign Language and Foreign Studies Fellowship/LACS Committee, University of
Michigan, member, 2003.
Advisory Board, Life Sciences, Values and Ethics Program, University of Michigan,
member, 2002-2004.
Advisory Board “Just Climate” Conference, member, 2004.
International Institute's Travel Award for Master's Program Research (TAMPR), reviewer,
2004.
PiTE GSI Selection Committee, 2005.
Faculty Senate, University of Michigan, member, 2004-2006.

Foreign Language and Foreign Studies Fellowship/LACS Committee, University of Michigan, member, 2005, 2007, 2009.
Advisory Board—Latin American and Caribbean Studies, University of Michigan, 2005—present.
SNRE Research Committee 2005-2006; 2007—2009; 2010-11.
Water Semester Advisory Committee—member 2010-11.
SNRE Professor of Practice Search Committee 2011
SNRE Executive Committee 2011-2013
President Coleman’s Latin American Trip Planning Committee 2011-2013
Graham Environmental Sustainability Institute Executive Committee. 2012-present
UM-Fapesp Small Grant Selection Committee. 2013.
UM-Brazil Cooperation Committee (Sustainability). 2012-present.
Global Engagement Committee (SNRE), 2013-2015, Chair
SNRE Promotion and Tenure Committee, member, 2013-14.
SEAS Dean Search Committee, member, 2016-17
UM Eisenberg Civic Engagement Committee, 2017-2019
CIGLR Scientific Committee 2017-2020
SEAS Promotion and Tenure Committee (Chair) 2020-present

Service to the profession

Reviewer for:

Journals: World Development, Climatic Change, Climate Research, Journal of Policy Studies, Water Policy, Journal of Political Ecology, Bulletin of the American Meteorological Society, Journal of Environment and Development, Ecology&Society, Conservation Biology, Climate and Development, Climate Research, Water Resources Research, Global Environmental Change, Science, Science, Environmental Science and Policy, Proceedings of the National Academy of Sciences (PNAS), Geoforum, Environmental Management, Weather, Climate and Society, Water Resources Research, Journal of Environmental Policy and Management, Climate Risk Management, Environment and Planning (A and C), Conservation Letters, Regional Environmental Change.

Other agencies and organizations: National Oceanographic and Atmospheric Administration, National Science Foundation, Global Environmental Assessment Project (Harvard University), United Nations Environmental Program (UNEP), National Academy of Sciences (NAS), National Research Council, Canada, Arms Corps of Engineers, Australian National University (external reviewer).

National and International Committees

Student Prize Committee at LAMA (Latin American Studies Association’s environmental studies section), 2000-01.
Advisory Board, Latin American Environmental Working Group, LAMA, Latin American Studies Association, member, 2003-2004.
Research Proposal Panel for the Office of Global Program’s Human Dimensions and Economics Program—NOAA, member.
Site Visit Review Panel for NSF-Decision Making Under Uncertainty Centers, member.
Faculty Fellow, Global Environmental Assessment Project—Kennedy School of Government, Harvard University (advised fellows, revised articles).

Invited author for the United States Climate Science Plan (CCSP) for Decision Support Experiments and Evaluations using Seasonal to Interannual Forecasts and Observational Data.

Contributing author to the IPCC Fourth Assessment Report, Group 7: Industry, Settlement and Society, 2005-06.

Executive Committee member: Carbon Cycle Decision Support Workshop, Boulder, CO, June 13-15, 2005.

Steering Committee for the NOAA Climate & Global Change Postdoctoral Fellowship, member.

Ecology Program Social Science Task Force, IHP, UNESCO, Chair (2006-07).

The National Academies/National Research Council Committee on Strategic Advice to the Climate Change Science Program Committee, member (2006-08).

Site Visit Evaluation Panel for NSF-Decision Making Under Uncertainty Centers, Chair (2007).

Inter-American Institute for Global Change Research (IAI), Scientific Advisory Committee, Vice-Chair, 2007-2010.

Decision, Risk, and Management Sciences Program, National Science Foundation, Advisory Panel, member, 2008-2010.

The National Academies/National Research Council (2010). *Advancing the Science of Climate Change*. America's Climate Choices: Panel on Advancing the Science of Climate Change; National Research Council/National Academy of Sciences. Member 2009-10.

The National Academies/National Research Council Committee on Human Dimensions of Global Change/Board of Environment Change and Society, member 2008--.

Founder and member of Icarus—Initiative on Climate Adaptation Research and Understanding through the Social Sciences (with Arun Agrawal, Ben Orlove and Jesse Ribot).

World Water Congress Scientific Committee—2010-11.

Lead Author IPCC WGII AR-5, Chapter 20: "Climate-resilient Pathways: Adaptation, Mitigation, and Sustainable Development".

The National Academies/National Research Council Committee to Advise the U.S. Global Change Research Program (USGCRP)—2011-13.

Advisory Board, Research Application Laboratory (RAL), National Center for Atmospheric Research (NCAR), 2013-present.

Advisory Board, ICAD, University of Leeds, 2012-2016.

Federal Committee on Sustained Climate Assessment, NOAA, 2016-17

Advisory Board, Socio-Environmental Synthesis Center (SESYNC), 2015-2018.

Advisory Board on Environmental Research and Education (ERE), National Science Foundation, 2017-2022.

Advisory Board NorAdapt, Norway, 2021-present

Editorial Boards

Editorial Board member: Global Environmental Change (2006-2016),
Environmental Science and Policy (2006-)

Ecology & Society—Subject Editor (2007-2019)

Climate, Weather and Society—Associate Editor (2012-2021)

WIREs Climate Change—Domain Editor for Vulnerability and Adaptation (2014-2017).

Climate Risk Management—Associate Editor (2016-)

Current Opinion of Environmental Sustainability—Associate Editor (2018-)

Editor in Chief—Frontiers Climate: Climate Risk Management Section (2019-).
Co-Editor in Chief—Global Environmental Change (2021-present)