

## DONALD R. NELSON, PHD

### Curriculum Vitae

Department of Anthropology, University of Georgia

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#### EDUCATION

- 2005 PhD in Anthropology, Remote Sensing and Spatial Analysis minor, University of Arizona
- 2000 M.A. in Anthropology, University of Arizona
- 1995 B.A., Anthropology, University of Nebraska

#### ACADEMIC POSITIONS

- 2021 - Present Professor, University of Georgia, Department of Anthropology
- 2021 - Present Graduate Program Coordinator, University of Georgia, Department of Anthropology
- 2015 - 2021 Associate Professor, University of Georgia, Department of Anthropology
- 2009 - 2015 Assistant Professor, University of Georgia, Department of Anthropology
- 2012 Visiting Professor, Universidade Federal do Ceará, Department of Hydraulic and Environmental Engineering
- 2009 - 2012 Visiting Fellow, University of East Anglia, Tyndall Centre for Climate Change Research
- 2006 - 2014 Adjunct Professor, University of Arizona, Bureau of Applied Research in Anthropology
- 2006 - 2009 Senior Research Associate, University of East Anglia, Tyndall Centre for Climate Change Research

#### RECOGNITIONS AND AWARDS

- 2022 Team Impact Award - Office of the Vice President for Research, UGA
- 2017 President's Venture Funds Award, Support to host Society for Economic Anthropology conference, UGA
- 2013 Portuguese Flagship Program, Development of an Integrating Language Across the Curriculum course, UGA
- 2012 Provost Summer Research Grant, UGA
- 2010 President's Venture Funds Award, Graduate student travel, UGA
- 2009 Exposition Foundation Latin American/Caribbean Research Travel Award, UGA
- 2009 Kavli Fellow, National Academy of Sciences

#### GRANTS RECEIVED

- 2023 – 2027 **National Oceanic and Atmospheric Administration.** "Incorporating Principles of Environmental Justice into Forecast Informed Reservoir Operations, a Climate and Flood Adaptation Strategy." Co-Principal Investigator.
- 2023 – 2024 **U.S. Department of Army.** "Proposal to Expand the Applied Research Capacities of the Engineering with Nature Regional Engagement Network for Military Installations and Surrounding Communities." Co-Principal Investigator.

- 2022 – 2023 **Office of Research, Faculty Seed Grants in the Sciences.** “Collaborative and Diverse, but Equitable? A Development of Stakeholder-Informed Lexicons to Systematically Detect Inequity in Decision-Making Processes.” Co-Principal Investigator.
- 2021 – 2026 **National Science Foundation.** "Landscape Exchange Network for Socio-environmental systems." Co-Principal Investigator.
- 2020 – 2024 **United States Army Corp of Engineers.** "Engineering with Nature Regional Proving Ground in the Southeastern US." Co-Principal Investigator.
- 2014 – 2021 **National Science Foundation.** “Human and Natural Forcings of Critical Zone Dynamics and Evolution at the Calhoun Critical Zone Observatory.” Senior Personnel.
- 2020 – 2021 **Municipal Government, Fortaleza, Ceará, Brazil.** "Rights and Social Inclusion Among Fortaleza's Underserved Youth". Co-Principal Investigator.
- 2019 – 2020 **President's Interdisciplinary Seed Grant, UGA.** “Building a National Center of Excellence for Nature-Based Infrastructure Solutions”. Co-Principal Investigator.
- 2016 –2018 **National Council for Scientific and Technological Development (CNPq – Brazil).** “Adaptive Management of Drought Risk as a Strategy for Reduction of Climate Change Impacts”. Co-Principal Investigator.
- 2014 – 2015 **Maranhão Foundation for Support for Research and Scientific Development** “Support for International Collaboration”. Co-Principal Investigator.
- 2013 – 2014 **Ceará Foundation for Scientific Development and Technology (FUNCAP).** “Community Participation and City Management in Fortaleza”. Co-Principal Investigator.
- 2011 – 2015 **National Science Foundation.** “The Relative Importance of Generic vs. Specific Capacity in Addressing Drought Vulnerability in NE Brazil.” Principal Investigator.
- 2010 – 2011 **Secretariat of Agrarian Development, Ceará; Development Bank of Northeast Brazil.** “Agricultural Drought and Local Crises: A Spatial and Temporal Analysis of the Socioeconomic Impact of Hydrologic Variability in Ceará, Brazil”. Principal Investigator.
- 2007 – 2008 **The Earth Institute at Columbia University.** Integrated Assessment of Vulnerability in Rainfed Agriculture: Drought Impacts, Coping, and Understanding /Use of forecasts. Co-Principal Investigator.
- 2004 – 2005 **National Oceanic and Atmospheric Administration — Environment, Science and Development Element.** Living with Drought: Integrating Climate Information with Rural Development Planning in Ceará, Brazil. Principal Investigator.
- 2000 – 2003 **National Oceanic and Atmospheric Administration — Program on Economics and Human Dimensions of Climate Change.** Use and Usefulness: A Comparative Study of ENSO-Based Climate Forecasting Systems in Drought-Affected Regions of Latin America. Co-Principal Investigator.

## JOURNAL ARTICLES

- Rocha, A.L.C. da, Eckert, C., and **D.R. Nelson**, In press. Antropologia e Crise Ambiental. *Horizontes Antropológicos*. v. 29, n. 66.
- Seigerman, C.K., S.K. McKay, R. Basilio, Biesel, S.A., J. Hallemeier, A.V. Mansur, C. Piercy, S. Rowan, B. Ubiali, E. Yeates, and **D.R. Nelson**, 2022. Operationalizing equity for integrated water resources management. *JAWRA Journal of the American Water Resources Association*. doi.org/10.1111/1752-1688.13086
- Grave, I., L. A. Bojórquez-Tapia, A. Estrada-Barón, **D.R. Nelson**, and H. Eakin, 2022. Analytic hierarchy process and sensitivity analysis implementation for social vulnerability assessment: A case study from Brazil. *Journal of Multi-Criteria Decision Analysis*. doi.org/10.1002/mcda.1782

- Feagin, R.A., T.S. Bridges, .....**D.R. Nelson**,... 2021. Infrastructure investment must incorporate Nature's lessons in a rapidly changing world, *One Earth* 4:10. doi.org/10.1016/j.oneear.2021.10.003.
- Foroughi, M., J. Mallard, **D.R. Nelson**, L.A. Sutter and D. Markewitz, 2021. The impacts of historical land-use on phosphorus movement in the Calhoun Critical Zone Observatory in the southeastern US Piedmont. *Biogeochemistry* 154:17-35. doi.org/10.1007/s10533-021-00794-8.
- Ordway, E., A. Elmore, ..... **D.R. Nelson**.... 2021. Leveraging the NEON Airborne Observation Platform for socio-environmental systems research. *Ecosphere* 126. doi/10.1002/ecs2.3640.
- Nelson, D.R.**, B. Bledsoe, S. Ferreira, and N. Nibbelink, 2020. The Potential of Nature-based Solutions for water sustainability. *Current Opinion in Environmental Sustainability* 45:49-55. doi.org/10.1016/j.cosust.2020.09.001
- De Azevedo Reis, G., F.A. de Souza Filho, **D.R. Nelson**, R.V. Rocha and S.M.O. da Silva, 2020. Development of a vulnerability to drought index using MCDM and GIS. *Natural Disasters*. doi.org/10.1007/s11069-020-04247-7
- Nelson, D.R.**, Bledsoe, B., and M Shepherd, 2020. From hubris to humility: Transcending original sin in managing hydroclimate risk management. *Anthropocene*. doi.org/10.1016/j.ancene.2020.100239.
- Chin, A., X. Cui, L. Gillson, **D.R. Nelson**, M. P. Taylor, V. Vanacker and E. Wang, 2020. "Anthropocene in an age of pandemics." *Anthropocene*. doi.org/10.1016/j.ancene.2020.100247
- King, E., **Nelson, D.R.**, and J.R. McGreevy, 2019. Advancing the integration of ecosystem services and livelihood adaptation. *Environmental Research Letters*. doi.org/10.1088/1748-9326/ab5519.
- Coughlan, M and **D.R. Nelson**, 2019. Geostatistical analysis of historical contingency and land use footprints in the prehistoric settlement dynamics of the South Carolina Piedmont, North America. *Journal of Archaeological Science* 107:1-9. doi.org/10.1016/j.jas.2019.04.003.
- Unks, R., King, E., **Nelson, D.R.**, Wachira, N.P., and L. German, 2019. Constraints, multiple stressors, and stratified adaptation: pastoralist livelihood vulnerability in a semi-arid wildlife conservation context in Central Kenya. *Global Environmental Change*. 54:124-134. doi.org/10.1016/j.gloenvcha.2018.11.013.
- Unks, R., King, E., German, L. Wachira, N.P., and **D.R. Nelson**, 2019. Unevenness in scale mismatches: institutional change and pastoralist livelihoods in Laikipia, Kenya. *Geoforum*. 99:74-87. doi.org/10.1016/j.geoforum.2018.12.010.
- Maione, C., **Nelson, D.R.**, and R.M. Barbosa, 2019. Research on social data by means of cluster analysis. *Applied Computing and Informatics*. 152:153-162. doi:10.1016/j.aci.2018.02.003.
- Coughlan, M., and **D.R. Nelson**, 2018. Legacy effects of prehistoric Native American niche construction on Euro-American settlement in the South Carolina Piedmont. *PLOS ONE*. 133: e0195036. doi.org/10.1371/journal.pone.0195036
- Delaney, A., T. Evans, J. McGreevy, J. Blekking, T. Schlachter, K. Korhonen-Kurki, P. A. Tamás, T. A. Crane, H. Eakin, W. Förch, L. Jones, **D.R. Nelson**, C. Oberlack, and M. Purdon, 2018. Governance of food systems across scales in times of social-ecological change: a review of indicators." *Food Security* 102: 287-310. doi.org/10.1007/s12571-018-0770-y.
- Tucker, B., and **D.R. Nelson**, 2017. What does economic anthropology have to contribute to studies of risk and resilience? *Economic Anthropology*. 42:161-172. doi.org/10.1002/sea2.12085.

- Coughlan, M., **D.R. Nelson**, M. Lonneman, and A. Block, 2017. Historical Land Use Dynamics in the Highly Degraded Landscape of the Calhoun Critical Zone Observatory. *Land*. 632. doi.org/10.3390/land6020032.
- Nelson, D.R.**, M.C. Lemos, H. Eakin, Y.J. Lo, 2016. The limits of poverty reduction in support of climate change adaptation. *Environmental Research Letters*. 11:094001. doi:10.1088/1748-9326/11/9/094011.
- Barbosa, R., **D.R. Nelson**, 2016. The use of support vector machine to analyze food security in a northeastern region of Brazil. *Applied Artificial Intelligence*. 304:318-330. doi.org/10.1080/08839514.2016.1169048.
- Lemos, M.C., Y.J. Lo, **D.R. Nelson**, H. Eakin, 2016. Leveraging generic and specific capacities to reduce vulnerability to drought in NE Brazil. *Global Environmental Change*. 39:170-179 doi.org/10.1016/j.gloenvcha.2016.05.001.
- Burke, B.J., M. Welch-Devine, S. Gustafson, N. Heynen, J. L. Rice, T. L. Gragson, S. R. Evans and **D.R. Nelson**, 2016. Can Science Writing Collectives Overcome Barriers to More Democratic Communication and Collaboration? Lessons from Environmental Communication Praxis in Southern Appalachia. *Environmental Communication*. 102:169-186. doi.org/10.1080/17524032.2014.999695.
- Chin, A., L. Gillson, S. Quirling, **D.R. Nelson**, M.P. Taylor, V. Vanacker, D. Lovegrove, 2016. An evolving Anthropocene for science and society. *Anthropocene* 13:1-3. doi.org/10.1016/j.ancene.2016.05.002
- Nelson, D.R.**, and T. J. Finan, 2014. Participação e Impotência: a Busca pela Esperança na periferia de Fortaleza, Brasil. *Illuminuras* 1536: 152–170. doi.org/10.22456/1984-1191.52639.
- Eakin, H., M.C. Lemos, and **D.R. Nelson**, 2014. Differentiating Capacities as a Means to Sustainable Climate Change Adaptation. *Global Environmental Change* 27:1-8.
- Furman, C., C. Roncoli, **D. R. Nelson**, and G. Hoogenboom 2013. Growing food, growing a movement: climate adaptation and civic agriculture in the southeastern United States. *Agriculture and Human Values*.
- Fidelman, P. I., A. M. Leitch, and **D. R. Nelson**, 2013. Unpacking multilevel adaptation to climate change in the Great Barrier Reef, Australia. *Global Environmental Change* 234:800-812.
- Nelson, D. R.**, 2011. Adaptation and resilience: responding to a changing climate. *WIREs Clim Change* 21:113–20.
- Nelson, D. R.**, F. d. Souza Filho, and T. J. Finan, 2011. Técnica, Cultura e Meio Ambiente para pensar o Semiárido. *Revista Homem, Espaço e Tempo* 52:1–15.
- Adger, W. N., K. Brown, **D. R. Nelson**, F. Berkes, H. Eakin, C. Folke, K. Galvin et al., 2011. Resilience implications of policy responses to climate change. *WIREs Clim Change* 25:757–66.
- Engle, N. L., Owen R. Johns, Maria Carmen Lemos, and **D. R. Nelson**, 2011. Integrated and Adaptive Management of Water Resources: Tensions, Legacies, and the Next Best Thing. *Ecology and Society* 161. http://www.ecologyandsociety.org/vol16/iss1/art19/.
- Nelson, D. R.**, 2010. Climate change: understanding anthropogenic contributions and responses. *Popul Environ* 315:283–85.
- Miller F, Osbahr H, Boyd E, Thomalla F, Bharwani S, Ziervogel G, Walker B, Birkmann J, van der Leeuw S, Rockström J, Hinkel J, Downing T, Folke C, and **D. R. Nelson**, 2010 Resilience and Vulnerability: Complementary or Conflicting Concepts? *Ecology and Society* 153.

- Lemos, M. C., A. R. Bell, N. L. Engle, R. M. Formiga-Johnsson, and **D. R. Nelson**, 2010. Technical Knowledge and water resources management: A comparative study of river basin councils, Brazil. *Water Resources Research*, 46, W06523, doi:10.1029/2009WR007949.
- Nelson, D. R.**, and T. J. Finan, 2009. Praying for Drought: Persistent Vulnerability and the Politics of Patronage in Ceará, Northeast Brazil. *American Anthropologist* 1113:302–16.
- Nelson, D. R.**, M. T. Folhes, and T. J. Finan, 2009. Mapping the road to development: a methodology for scaling up participation in policy processes. *Development in Practice* 193:386–95.
- Nelson, D. R.**, C. T. West, and T. J. Finan, 2009. Introduction to “In Focus: Global Change and Adaptation in Local Places.” *American Anthropologist* 1113:271–74.
- Hulme, M., S. Dessai, I. Lorenzoni, and **D. R. Nelson**, 2009. Unstable climates: Exploring the statistical and social constructions of ‘normal’ climate. *Geoforum* 402:197–206.
- Adger, W. N., S. Dessai, M. Goulden, M. Hulme, I. Lorenzoni, **D. R. Nelson**, L. O. Naess, J. Wolf, and A. Wreford, 2009. Are there social limits to adaptation to climate change? *Climatic Change* 933-4:335–54.
- Nelson, D. R.**, W. N. Adger, and K. Brown, 2007. Adaptation to environmental change: Contributions of a resilience framework. *Annual Review of Environment and Resources* 32:395–419.
- Folhes, M. T., and **D. R. Nelson**, 2007. Previsões Tradicionais de Tempo e Clima no Ceará: O Conhecimento Popular à Serviço da Ciência. *Sociedade e Natureza* 192:19–31.
- Lemos, M. C., T. J. Finan, R. W. Fox, **D. R. Nelson**, and J. Tucker, 2002. The Use of Seasonal Climate Forecasting in Policymaking: Lessons from Northeast Brazil. *Climatic Change* 55:479–507.
- Finan, T. J., and **D. R. Nelson**, 2001. Making rain, making roads, making do: public and private adaptations to drought in Ceará, Northeast Brazil. *Climate Research* 19:97–108.
- McCracken, S. D., E. S. Brondizio, **D. R. Nelson**, E. F. Moran, A. D. Siqueira, and C. Rodriguez-Pedraza, 1999. Remote Sensing and GIS at Farm Property Level: Demography and Deforestation in the Brazilian Amazon. *Photogrammetric Engineering and Remote Sensing* 6511:1311–20.

## CO-EDITED BOOKS

- Souza Filho, F.A., S.M.O. Silva, R.M.F. Johnsson, **D.R. Nelson**, A. Nauditt, and L. Ribbe. Eds., 2019. *Adapta: gestão adaptativa do risco climático de seca*, 1008 pp. Fortaleza: Expressão Gráfica e Editora.

## BOOK CHAPTERS

- Seigerman, C., R. Basilio, and **D.R. Nelson**, 2021. Secas entrelaçadas: Uma abordagem integrativa para explorar a sobreposição parcial e as divisões volúveis entre definições, experiências e memórias da seca em Ceará, Brasil. In *Memória ambiental e o tempo vivido: Etnografia da duração e coleções de imagens*. Porto Alegre: Editora UFRGS, Associação Brasileira de Antropologia.
- Egute, N.d.S., A. Phillipi Jr. and **D.R. Nelson**, 2019. Tipos de respostas de quem vive na várzea do Rio Tietê – Jardim Pantanal. In *Riscos e desastres: caminhos para o desenvolvimento Sustentável*, pp. 291-318. São Carlos: RiMa Editora, 2019.
- Biesel, S. and **D.R. Nelson**, 2019. A Importância da ética para a gestão da água. In *Adapta: gestão adaptativa do risco climático de seca*, pp. 407 - 418. Fortaleza: Expressão Gráfica e Editora.

- Nelson, D. R.**, FA de Souza Filho, TJ Finan, and S Ferreira, 2014. Trajectories of adaptation: A retrospectus for future dynamics. In *Social-ecological Systems in Transition*, pp. 121-136. Global Environmental Series, Springer, Tokyo, Japan.
- Lemos, M. C., A. Agrawal, H. Eakin, **D. R. Nelson**, N. L. Engle, and O. Johns, 2013. Building Adaptive Capacity to Climate Change in Less Developed Countries. In *Climate Science for Serving Society: Research, Modeling and Prediction Priorities*, pp. 437–57: Springer Verlag.
- Nelson, D. R.**, 2012. Vulnerability and Resilience of Modern Societies to Environmental Change. In *The SAGE handbook of environmental change*, pp. 910 - 922. Los Angeles: Sage.
- Hulme, D., S. Dessai, I. Lorenzoni, and **D. R. Nelson**, 2010. Unstable Climates: Exploring the Statistical and Social Constructions of ‘Normal’ Climate. In *Human geography*, V. 1, pp. 117–40. Sage fundamentals of geography. London : SAGE Publications.
- Lemos, M. C., R. M. Formiga-Johnsson, **D. R. Nelson**, and N. Engle, 2010. Informação técnica e gestão participativa de bacias hidrográficas no Brasil. In *Água e política: Atores, instituições e poder nos organismos colegiados de bacia hidrográfica no Brasil*, pp. 173–94. Coleção Cidadania e Meio Ambiente. São Paulo, SP, Brasil: Annablume.
- Adger, W. N., and **D. R. Nelson**, 2010. Fair decision making in a new climate of risk. In *Climate change, ethics and human security*, pp. 83–94. Cambridge: Cambridge University Press.
- Nelson, D. R.** , 2009. Transforming the World. In *Adapting to climate change*, pp. 491–500. Cambridge, New York: Cambridge University Press.
- Eakin, H., E. L. Tompkins, **D. R. Nelson**, and J. M. Anderies, 2009. Hidden costs and disparate uncertainties: trade-offs in approaches to climate policy. In *Adapting to climate change*, pp. 212–26. Cambridge, New York: Cambridge University Press.
- Finan, T. J., and **D. R. Nelson**, 2009. Decentralized planning and climate adaptation: toward transparent governance. In *Adapting to climate change*, pp. 335–49. Cambridge, New York: Cambridge University Press.
- Nelson, D. R.**, and T. J. Finan, 2009. Weak Winters: Dynamic Decision-Making in the Face of Extended Drought in Ceará, Northeast Brazil. In *The political economy of hazards and disasters*, pp. 107–32. Society for Economic Anthropology SEA Monographs no. 27. Lanham: AltaMira Press.
- Brondizio, E., S. D. McCracken, E. F. Moran, A. D. Siqueira, **D. R. Nelson**, and C. Rodriguez-Pedraza, 2002. The Colonist Footprint: Toward a Conceptual Framework of Land Use and Deforestation Trajectories among Small Farmers in the Amazonian Frontier. In *Deforestation and Land Use in the Amazon*, pp. 133–61. Gainesville, FL: University of Florida Press.

## OTHER PUBLICATIONS

- Nelson, D.R.**, J.S. Pippin, A.V. Mansur, C.K. Seigerman, 2021. The Impacts of Infrastructure Sector Corruption on Conservation. World Wildlife Fund Introductory Overview.
- Nelson, D.R.**, 2020. Pursuing Transformative Goals. Voices: Transformative Adaptation in Cities. *One Earth*. 3:4, 384-387. doi.org/10.1016/j.oneear.2020.10.002
- Coughlan, M., and **D.R. Nelson**, 2018. Colonial Land Grants Database, Calhoun Critical Zone Observatory, South Carolina, 1749-1851, Inter-university Consortium for Political and Social Research [distributor]. doi.org/10.3886/ICPSR37078.v1

- Nelson, D.R.**, K.P. O'Neill, M.R. Coughlan, M.C. Lonneman, Z. Meyers and U.S. Department of Agriculture, Forest Service, 2016. USDA Forest Service Photographs from the Calhoun Experimental Forest, South Carolina, 1932 - 1987. Ann Arbor, MI: Inter-university Consortium for Political and Social Research. doi.org/10.3886/E100276V3
- Delaney A., T. Evans, J. McGreevy, J. Blekking, T. Schlachter, K. Korhonen-Kurki, P.A. Tamás , T.A. Crane , H. Eakin, W. Förch, L. Jones, **D.R. Nelson** , C. Oberlack, and M. Purdon, 2016. Strengthening the food systems governance evidence base: Supporting commensurability of research through a systematic review of methods. Working Paper no. 167. Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS)
- Ravindranath NH, M. Stocking, L. Neretin, **D. R. Nelson**, and S. J. V. J. Patwardhan Anand, 2010. *Enhancing Resilience to Reduce Climate Risks: Scientific Rationale for the Sustained Delivery of Global Environmental Benefits in GEF Focal Areas*. Step Advisory Document GEF/C.39/Inf.18: United Nations Environment Programme.
- Lemos, M. C., A. R. Bell, N. L. Engle, R. M. Formiga-Johnsson, and **D. R. Nelson**, 2009. Technical knowledge and democratic decision-making: Building adaptive capacity of freshwater systems in Brazil. *IOP Conference Series: Earth and Environmental Science* 6:292015.
- Duarte, M., **D. R. Nelson**, P. Norton, R. Nadelman, and J. Wolf, 2009. Adapting to Climate Change: Understanding the Social Dimensions of Vulnerability and Resilience. In *Environment Matters at the World Bank*. Pp. 24–27. Washington.
- Nelson, D. R.**, 2009. Expanding the Climate Change Research Agenda. *Anthropology News*, 48:10-12.
- Janvry, A. de, E. Soudolet, F. Finan, **D. R. Nelson**, K. Lindert, Bde la Brière, Bénédicte, and P. Lanjouw, 2005. *Brazil's Bolsa Escola Program: The Role of Local Governance in Decentralized Implementation*. Social Safety Nets Primer Series: World Bank Institute.
- Nelson, D. R.**, and T. J. Finan, 2000. The Emergence of a Climate Anthropology in Northeast Brazil. *Practicing Anthropology* 22(4):6–10.
- McCracken, S. D., E. S. Brondízio, E. F. Moran, **D. R. Nelson**, A. D. Siqueira, and C. Rodriguez-Pedraza, 1998. The use of remote sensing and GIS in the collection of survey data on households and land-use: Example from the agricultural frontier of the Brazilian Amazon. In *Simpósio de Sensoriamento Remoto*. Anais IX. Pp. 45–52. São José dos Campos: INPE.

## **EDITORSHIP, EDITORIAL BOARD MEMBER**

2014 – Present Associate Editor, *Anthropocene*

2009 – Present Subject Editor, *Ecology & Society*

2023 – Present Editorial Board, *Revista Mappinguary*, Universidade Federal do Amazonas.

2023 Co-Guest Editor “Antropologia e Crises Ambiental”, *Horizontes Antropológicos* 66(30).

2020 Co-Organizer "Urban Hydroclimatic Resilience", *Anthropocene*

2017 Co-Guest Editor for *Economic Anthropology* 4(2)

2007 - 2014 Editorial Board, *Homem, Espaço, e Tempo*. Universidade Estadual do Vale  
*Acaraú*

2010 Invited Guest Editor, *Population and Environment* 31(5)

2009 Organizer - In Focus section, and co-author of introduction, *American  
Anthropologist* 111(3)

### **INVITED SPEAKER**

**Nelson, D.R.**, 2023. Assessing Equity and Social Benefits in Engineering with Nature. US Army Corp of Engineers, Engineering with Nature Short Course offered at Coastal Sediments 23 conference, New Orleans.

**Nelson, D.R.**, 2023. The Role of Social Science Research in Undergraduate Education. Universidade Estadual do Ceará, Department of Social Sciences Seminar.

**Nelson, D.R.**, J.S. Pippin, A.V. Mansur, C. K. Seigerman, 2021. The Impacts of Infrastructure Sector Corruption on Conservation. Targeting Natural Resource Corruption, Topical Brief Webinar.

**Nelson, D.R.**, 2021. Prioritizing Social Equity in Water Infrastructure: Moving from Concept to Practice. Federal Emergency Management Interagency Recovery Coordination Bi-Weekly Training.

McKay, K., C.K. Seigerman and **Nelson, D.R.**, 2021. Operationalizing Equity for Integrated Water Resources. N-EWN Knowledge Series, Network for Engineering with Nature.

**Nelson, D.R.**, 2021. Propping the Window Open: Cultivating Equity in Water Infrastructure. Environmental Change Institute Seminar Series, University of Notre Dame.

**Nelson, D.R.**, 2021. Prioritizing Social Equity in Water Infrastructure: Moving from Concept to Practice. 10th Annual Science Symposium. San Juan ULTRA, San Juan Puerto Rico.

**Nelson, D.R.**, 2021. Os hábitos e capacidades para responder aos grandes desafios socioambientais. Inaugural lecture, Internationalizing the University. Universidade Tecnológica Federal do Paraná, Pato Branco, Brazil.

**Nelson, D.R.**, 2020. Interdisciplinary Research and Skills to Address Environmental Challenges. Invited speaker for the International Symposium on Aquatic Resources. Universidade Estadual do Maranhão, Brazil.

**Nelson, D.R.**, 2017. Natural Resources in the Semi-Arid and Human Vulnerability. Keynote speaker, III Brazilian Symposium on Natural Resources in the Semi-Arid. Universidade Federal do Ceará, Fortaleza, Brazil.

**Nelson, D.R.**, 2016. Academic contributions to knowledge building: Vulnerability assessment. Workshop on the 2010-2016 Drought in Northeast Brazil. Northeast Development Bank, Fortaleza, Brazil.

**Nelson, D.R.** 2016. Differentiating capacities as a means to sustainable climate change adaptation. Invited speaker for the workshop Building Community Capacity to Adapt to Climate Change across Sites, Groups and Scales. *Maxwell School of Citizenship and Public Affairs, Syracuse University, NY.*

**Nelson, D.R.** 2015. Participação e mapeamento comunitário para promover uma gestão municipal mais eficaz e inclusiva. Department of Anthropology, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.



- Nelson, D.R.** 2015. *Seca no Sertão: Uma análise sobre a mediação política das vulnerabilidades ao clima durante 50 anos.* Department of Anthropology, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.
- Nelson, D. R.** 2013. "Social, policy and climatic change in NE Brazil: The droughts of 1997-98 and 2012-13." Drought Policy Conference. David Rockefeller Center for Latin American Studies, Harvard University. Cambridge, MA.
- Nelson, D. R.** 2013. "The theoretical and policy contributions of methods to assess vulnerability change through time." Seminário Internacional de Investigações sobre Vulnerabilidade dos Desastres Socionaturais. Keynote speaker. Universidade Federal de Santa Catarina. Florianópolis, Brazil.
- Nelson, D. R.** 2013. "Vulnerability and Resilience: Methodological Approaches Applied in Northeast Brazil." School of Sustainability, Arizona State University.
- Nelson, D. R.** 2013. "Vulnerability and Resilience: Methodological Approaches Applied in Northeast Brazil." Drought Preparedness and Climate Change Resilience in Brazil: Assistance with Institutionalizing Proactive Risk-Based Policy and Management Symposium. World Bank Scoping Mission, Fortaleza, CE, Brazil.
- Nelson, D. R.** 2012. "Planejamento Participativo e Recursos Hídricos". Departmental Seminar Series, Departamento de Engenharia Hidráulica e Ambiental. Universidade Federal do Ceará. Fortaleza, Brazil.
- Nelson, D. R.** 2012. "Secas Locais: Estratégias de Promoção de Adaptação". Departmental Seminar Series, Departamento de Engenharia Hidráulica e Ambiental. Universidade Federal do Ceará. Fortaleza, Brazil.
- Nelson, D. R.** 2012. "Resiliência de Sistemas Sócio-Ecológicos: Uma Perspectiva Histórica". Departmental Seminar Series, Departamento de Engenharia Hidráulica e Ambiental Universidade Federal do Ceará. Fortaleza, Brazil.
- Nelson, D. R.** 2012. "From Snakebites to Sweatshops: Tales of Adaptation from the Brazilian Drylands." Departmental Lecture Series, Department of Anthropology. Baylor University.
- Nelson, D. R.** 2012. "De Cliente a Cidadão: Desafios na Participação Social". Fórum para Ideias Inovativas. Instituto de Estudos e Pesquisas para o Desenvolvimento do Ceará. State Legislative Assembly. Fortaleza, Brazil.
- Nelson, D. R.** 2012. "From Client to Citizen: A Role for Technology in Changing Social Relations in Northeast Brazil." Department Lecture Series, Departments of Geography and Latino and Hispanic Caribbean Studies. Rutgers University.
- Nelson, D.R.** 2011. *Vulnerability and Adaptive Capacity Thinking Today; Vulnerability Assessment Methods.* Two talks presented at the workshop "Forest Community Vulnerability and Adaptive Capacity in the Context of Climate Change." University of Montana and the Forest Service Rocky Mountain Research Station. Lubrecht Experimental Forest, Montana.
- Nelson, D.R.** 2011. "Trajectories of Adaptation: A Retrospectus for Future Change Dynamics." RIHN 6<sup>th</sup> International Symposium: Beyond collapse: Transformation of Human-Environmental Relationships, Past, Present, Future. Research Institute for Humanity and Nature, National Institutes for the Humanities, and the Inter-University Research Corporation. Kyoto, Japan.
- Nelson, D.R.** 2011. *Técnica, Cultura e Meio Ambiente para pensar o Semiárido. Educação contextualizada: Natureza, Técnica, Cidadania e Diversidade Cultural.* III Fórum Brasileiro do Semiárido. Universidade Estadual Vale do Acaraú. Sobral, Brazil.

- Nelson, D.R.**, 2011. Methods and Frameworks for Assessing Vulnerability. Emory University, Masters in Development Practice.
- Nelson, D.R.**, 2011. Where does climate fit within Anthropology? University of Michigan. School of Natural Resources and the Environment.
- Nelson, D.R.**, 2011. "Adaptation Studies: Anthropological Contributions to Theory and Policy." Brown Bag Series, Bureau of Applied Research in Anthropology, University of Arizona.
- Nelson, D.R.**, 2010. Responding to Extreme Weather Events: Climate Variability and Change. Brown International Advanced Research Institutes, Brown University, Providence, RI.
- Nelson, D.R.**, 2010. Social Aspects of Climate Change. Emory University, Department of Environmental Studies, GA.
- Nelson, D.R.** 2010. Systems in Motion: The Nested Nature of Climate Adaptation in Northeast Brazil. Curriculum for the Environment and Ecology, University of North Carolina.
- Nelson, D.R.** 2010. Systems in Motion: The Nested Nature of Climate Adaptation in Northeast Brazil. Earth and Environmental Systems Institute, Pennsylvania State University.
- Nelson, D.R.** 2009. Our Hot and Uncertain Future: Is Adaptation to Climate Change Possible? Presenter and Session Chair. Kavli Frontiers of Science Symposium, National Academy of Sciences, Irvine, CA.
- Nelson, D.R.**, 2008. Climate change and water resources: impacts and adaptation. Given for the short course: Climate change: science, impacts and responses. Imperial College, London.
- Nelson, D.R.**, 2008. Vulnerability: concepts and assessment. Institute of History, University of Berne, Switzerland.
- Nelson, D.R.** 2008. Adaptation Strategies to Climate Change. Interdisciplinary Programme on Humanitarian Action and the Institute of Environment Studies, University of Geneva.
- Nelson, D.R.** 2008. Key outcomes of the Tyndall Centre workshop on resilience and adaptation to climate change. Resilience and Vulnerability Colloquium. Stockholm Environment Institute, Stockholm.
- Nelson, D.R.** 2008. Implications of climate change for conflict and migration. Discussant. Social Dimensions of Climate Change. The World Bank Group. Washington D.C.
- Nelson, D.R.** 2007. Environmental Refugees. Dana Centre, Science Museum. London, UK.
- Nelson, D.R.** 2005. Questionnaire Development and Field Experiences for the Evaluation of the Impact of Bolsa Família. Cedeplar-UFMG, Ministério de Desenvolvimento Social e Combate a Fome, Sociedade Científica da Escola Nacional de Ciências Estatísticas, and The World Bank. Belo Horizonte, MG, Brazil.
- Nelson, D.R.** 2005. Appropriate Technologies for the Semi-Arid. Konrad Adenaur Stiftung Foundation. Fortaleza, Brazil.

## **ORGANIZED CONFERENCES, WORKSHOPS, AND CONFERENCE SESSIONS**

- Elmore, A., Cattau, M., **Nelson, D.R.**, Ordway, E., Steele, M., Stylinski, C., and M. Williamson. Co-organizer. Landscape Exchange Network for Socio-Environmental Systems Conference. Annapolis, Maryland. 2022.
- Tucker, B., and **D.R. Nelson**. 2016. Risk and Resilience: Cultures, Societies, and Systems. Co-organizer and host of Society for Economic Anthropology Annual Conference, Athens, GA.

**Nelson, D.R.** 2015. Anthropology and Public Policy in Brazil. Co-organizer of double session. Society for Applied Anthropology, Pittsburgh, PA.

**Nelson, D.R.** and A.F. Leal. 2014. "Contemporary Applied Anthropology in Brazil." Session organizer. Society for Applied Anthropology, Albuquerque, New Mexico.

**Nelson, D.R.** and H. Eakin, 2010. Adaptation with a long-view: promoting resilience in response to environmental and development challenges. Session organizer. Second International Conference: Climate, Sustainability and Development in Semi-arid Regions, Fortaleza, Brazil.

**Nelson, D.R.** 2010. Forms of adaptive management under climate change: A comparative and multidisciplinary perspective. Session organizer. Second International Conference: Climate, Sustainability and Development in Semi-arid Regions, Fortaleza, Brazil.

Adger, W.N., K. Brown, **D.R. Nelson**, 2010. Social-ecological resilience and climate change. Workshop co-organizer. Tyndall Centre for Climate Change Research, Southwold, UK.

**Nelson, D.R.** 2009. Living with climate change: are there limits to adaptation? Steering and Scientific Committee. Tyndall Centre for Climate Change Research. Royal Geographical Society, London.

**Nelson, D.R.** 2009. Participatory GIS, More than Maps. Session organizer. Society for Applied Anthropology, Memphis TN.

**Nelson, D.R.** 2008. Freshwater and Ecosystem Services. Session chair. Resilience, Adaptation, and Transformation in Turbulent Times. Stockholm Resilience Centre and the Stockholm Environment Institute, Stockholm.

Adger, W.N., K. Brown, **D.R. Nelson**. 2007. Resilience and Adaptation to Climate Change: Linkages and a New Agenda. Workshop co-organizer. Tyndall Centre for Climate Change Research, Blakeney, UK.

**Nelson, D.R.**, C.T. West, T.J. Finan, 2007. Linking Adaptation and Sustainability: Case Studies on Global Change in Local Places. "Session organizer. Society for Applied Anthropology, Tampa, FL.

**Nelson, D.R.**, 2003. Developing guidelines to measure food access in Title II programs. Workshop coordinator. FANTA/FAM, Washington, D.C.

#### **INVITED WORKSHOP PARTICIPANT**

**Nelson, D.R.** 2020. People, Land, & Ecosystems: Leveraging NEON for Socio-Environmental Synthesis I. SESYNC Workshop. Annapolis, MD.

**Nelson, D.R.** 2018. Ecosystem Services-Livelihood Adaptation. Boundary Spanning: Advances in Socio-Environmental Systems Research. SESYNC International Symposium. Annapolis, MD.

**Nelson, D.R.** 2015. Governance and institutions across scales in Climate Resilient Food Systems. Invited workshop participant. Climate Change Agriculture and Food Security, CGIAR. Brussels, Belgium.

**Nelson, D.R.** 2014. Governance and institutions across scales in Climate Resilient Food Systems. Invited workshop participant. Climate Change Agriculture and Food Security, CGIAR. Brussels, Belgium.

**Nelson, D. R.** 2013. "Limits of Environmental Governance." National Socio-Environmental Synthesis Centre, Annapolis MD.

**Nelson, D. R.** 2012. "Limits of Environmental Governance." National Socio-Environmental Synthesis Centre, Annapolis MD.

- Nelson, D.R.**, 2011. Third International Conference: Climate, Sustainability, and Development in the Semiarid Regions." Provincial Government of Mendoza, Argentina, and the State Government of Ceará, Brazil. Mendoza, Argentina.
- Nelson, D.R.**, 2009. Impacts, Adaptation and Vulnerability. Intergovernmental Panel on Climate Change; Earth System Science Programme; Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil.
- Nelson, D.R.**, 2009. Beyond Limits to Adaptation to Transformations in Practice. Environmental Change Institute, Oxford, UK.
- Nelson, D.R.**, 2009. International Expert Panel on Megacities, Vulnerability, and Global Climate Change. Instituto Nacional de Pesquisas Espaciais, Rio de Janeiro, Brazil.
- Nelson, D.R.** 2007. Discussant. Freshwater Climate Change Workshop. World Wildlife Fund. Haslemere, UK.

## CONFERENCE PRESENTATIONS

- Williamson, M., **Nelson, D.R.**, Steele, M., Julian, J., Kolstoe, S. and A. Elmore. 2023. Integrating National Observation Networks into Human-Environment System Archetypes.
- Ordway, E., Elmore, A., Cattau, M., **Nelson, D.R.**, Steele, M., Stylinski, C., and M. Williamson. 2022. Patterns, Places, People: Leveraging the NEON Airborne Observation Platform for scalable observation of Socio-Environmental Systems. American Geophysical Union, Chicago, IL.
- Vianna Mansur, A., J. Mohanachandran, **D.R. Nelson**. 2022. Incorporation of Indigenous and Local Knowledge to co-develop Inclusive and Sustainable Nature-Based Infrastructure Systems.
- Seigerman, C., E.S.P.R Martins, and **D.R. Nelson**. 2022 The emergence of household-level water insecurity through sociohydrological processes in the semi-arid region of Ceará, northeast Brazil. International Association of Hydrological Sciences. Montpellier, France.
- Ordway, E., Elmore, A., ..... **D.R. Nelson**....2021. Leveraging the NEON Airborne Observation Platform for socio-environmental systems research. American Geophysical Union, San Francisco CA.
- Grave, I., L.A. Bojórquez-Tapia, A. Estrada-Barón, **D.R. Nelson**, and H. Eakin. 2020. Sensitivity Analysis for the Assessment of Adaptive Capacity to Climate Change: A Case Study from Brazil. International Symposium on Analytic Hierarchy Process.
- Nelson, D.R.**, M. Coughlan, S. Billings, A. Porporato, and D. Richter. 2019. What is soil? An integrative exploration of a Critical material. American Geophysical Union, San Francisco CA.
- Nelson, D.R.**, and M. Coughlan. 2019. Land use trajectories: an empirical analysis of smallholders and the forest transition in the South Carolina Piedmont. Society for Applied Anthropology, Portland OR.
- Nelson, D.R.**, and M. Coughlan. 2018. Gone with the witness tree: A reconstruction of historical forest cover change in the South Carolina Piedmont ca. 1790-1940 using metes and bounds survey witness trees. American Association of Geographers, New Orleans.
- Coughlan, M., **D.R. Nelson**, and M. Lonneman. 2017. Continuity and Change in the Southern Piedmont: A Social-Ecological Perspective on People and their Land. Society for Applied Anthropology, Portland, Santa Fe, NM.

- Nelson, D.R.**, E. King, J.R. McGreevy, L. German, and F. Isabel. 2016. A Framework to reconcile ecosystem services and adaptive capacities in rapidly transforming dryland social-ecological systems. Global Land Programme, 3<sup>rd</sup> Open Science Meeting. Beijing, China.
- Coughlan, M.L., and **D.R. Nelson**. 2016. Human niche construction and legacy effects at the Calhoun CZO: The relationship of land use legacies and historical settlement patterns. Southeastern Archaeology Conference, Athens, GA.
- Nelson, D.R.** 2016. Living with drought: Adaptation and Identity. Society for Applied Anthropology, Vancouver, Canada.
- Nelson, D.R.**, and T.J. Finan. 2016. Poverty as Proxy? Social protection and food security in northeast Brazil 1998 – 2012. Society for Applied Anthropology, Vancouver, Canada.
- Nelson, D.R.**, and T.J. Finan. 2015. Smallholder resilience: the dynamics of climate, poverty, policy, and politics in Northeast Brazil, 1998 – 2014. Society for Applied Anthropology, Pittsburgh, PA.
- Coughlan, M.R., **D.R. Nelson**, and T.L. Gragson. 2015. Transitioning from livelihood fire to fire suppression in the US Southeast: Causes and consequences of fire regime transition in two forested landscapes. Fire Ecology and Management Conference. San Antonio, TX.
- Finan, T.J. and **D.R. Nelson**. 2015. Contested Participation within a Clientelistic Tradition: Resistance to Community-Based Development in the Periphery of Fortaleza, Ceará. Society for Applied Anthropology, Pittsburgh, PA.
- Egute, N. S., **D.R. Nelson**, S.M.V. Coutinho, M.F. Ramos, A.S. Carbone, and A. Philippi Jr. 2015. Exposição às enchentes e capacidade adaptativa ao longo do tempo: o papel de políticas públicas no processo de adaptação. IV Workshop Interdisciplinar de Investigación e Indicadores de Sustentabilidade, Universidad de Concepción, Concepción, Chile.
- Nelson, D.R.** 2014. "Risk and vulnerability reduction: Synergies in drought management and development in Northeast Brazil." Society for Applied Anthropology, Albuquerque, New Mexico
- Nelson, D.R.** 2014 "The Conjunction of Food Security, Drought and Public Investments in NE Brazil." Resilience: Transformation and Development. Montpellier, France.
- Nelson, D.R.** 2014. "Food Security, Drought and Social Policy in NE Brazil. Adaptation Futures, Fortaleza, Brazil.
- Nelson, D.R.** 2014. "Participation and Powerlessness: The Pursuit of Hope on the Periphery of Fortaleza, Brazil ." Society for Applied Anthropology, Albuquerque, New Mexico.
- Nelson, D. R.** 2013. "Patrons, Neighbors and the State: Patterns of household-level resource access within the context of rapid social change." American Anthropological Association. Chicago, IL.
- Nelson, D. R.** 2012. "Trajectories of Adaptation: A Retrospectus for Future Change Dynamics." Planet Under Pressure. London, UK.
- Nelson, D.R.** 2011. Adaptation Trajectories. Society for Applied Anthropology. Seattle, WA.
- Nelson, D.R.** and H. Eakin, 2011. Adaptation with a long-view: promoting resilience in response to environmental and development challenges. Resilience 2011: Second International Science and Policy Conference. Arizona State University, Phoenix, AZ.
- Nelson, D.R.** and T.J. Finan, 2011. "Combat" or "Coexistence"? – An historical analysis of the impacts of public investment in a drought prone region. Resilience 2011: Second International Science and Policy Conference. Arizona State University, Phoenix, AZ.

- Nelson, D.R.** 2010. An analytical approach to the local understanding of drought and drought response in Ceará, Northeast Brazil. Second International Conference: Climate, Sustainability and Development in Semi-arid Regions, Fortaleza, Brazil.
- Nelson, D.R.** 2010. Adaptation with a long-view: Promoting resilience in response to environmental and development Challenges. Second International Conference: Climate, Sustainability and Development in Semi-arid Regions, Fortaleza, Brazil.
- Nelson, D.R.** 2010. Anthropological Perspectives on Social-Ecological Resilience. Panelist. Society for Applied Anthropology, Mérida, Mexico.
- Nelson, D.R.,** T.J. Finan, 2009. When resilient institutions become maladaptive: Tensions and transformations. International Human Dimensions Program, Bonn.
- Nelson, D.R.** 2008. Adapting to climate change: Contributions of a resilience framework. Resilience, Adaptation, and Transformation in Turbulent Times. Stockholm Resilience Centre and the Stockholm Environment Institute, Stockholm.
- Nelson, D.R.** 2008. Community resilience and institutional tensions: Adaptation to climate change in Northeast Brazil." American Anthropology Association, San Francisco CA.
- Nelson, D.R.** 2008. Unusual business: PGIS and the transformation of governance. Society for Applied Anthropology, Memphis, TN.
- Nelson, D.R.** and T.J. Finan, 2007. Weak rains: Dynamic Decision-Making in the Face of Extended Drought in Ceará, Northeast Brazil." Society of Economic Anthropology, Greensboro, NC.
- Nelson, D.R.** and T.J. Finan, 2007. Persistent Vulnerability and Ironic Adaptation: The (False) Security of Drought in Ceará, Brazil. Society for Applied Anthropology, Tampa, FL.
- Nelson, D.R.** 2003. The Marriage of Technology and Democracy: Reducing Vulnerability to Drought in Ceará, Brazil. Society for Applied Anthropology, Dallas, TX.
- Nelson, D.R.** and T.J. Finan, 1999. "Making Rain, Making Roads, Making Do: Public and Private Responses to Drought in Ceará, Brazil." Society for Applied Anthropology, Tucson, AZ.
- Nelson, D.R.** and T.J. Finan, 1996. Farmer Awareness and the Use of Seasonal Climate Forecasting in Ceará, Northeast Brazil. Latin American Studies Association, Chicago, IL.