

Amanda R. Carrico

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Statement of Research Interests

Trained as an applied social psychologist, my work examines the factors that shape individual and group environmental decision making. More specifically, I seek to understand (1) the psychological and social drivers of conservation behavior, and (2) the factors that facilitate or constrain household adaptation to environmental change. In a new (third) line of work, I am examining the social impacts of climate change adaptation. I use a range of methods, but emphasize quantitative approaches such as large-sample surveys, behavioral experiments, and observational research. Key areas of interest include climate change, agriculture, and water scarcity. My work is situated in the United States, Sri Lanka, and Bangladesh.

Education

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| 2009 | Ph.D., Psychological Science, Vanderbilt University (Emphasis: Social Psychology, Quantitative Methods) |
| 2005 | M.A., Psychology, Vanderbilt University |
| 2002 | B.A. (<i>magna cum laude</i>), Psychology, Transylvania University |

Academic Employment History

University of Colorado, Boulder

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|----------------|---|
| 2020 – present | Associate Professor (with tenure), Environmental Studies |
| 2020 – present | Interim Director, Center for Sustainable Landscapes and Communities |
| 2014 – 2020 | Assistant Professor, Environmental Studies |

Vanderbilt University

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| 2012 – 2013 | Research Assistant Professor, Climate Change Research Network, Vanderbilt Institute for Energy and Environment |
| 2009 – 2011 | Postdoctoral Fellow, Climate Change Research Network, Vanderbilt Institute for Energy and Environment |

Current Affiliations

University of Colorado, Boulder

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| 2020 – present | Affiliate Professor, Department of Psychology and Neuroscience |
| 2020 – present | Faculty Affiliate, Center for Creative Climate Communication & Behavior Change |
| 2018 – present | Faculty Affiliate, Center for Sustainable Landscapes and Communities |
| 2018 – present | Faculty Affiliate, Center for the American West |
| 2016 – present | Faculty Affiliate, University of Colorado Population Center |

Honors, Awards, & Fellowships

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| 2020 - 2021 | Faculty Leadership Institute, University of Colorado |
| 2019 | Marinus Smith Award, CU Boulder |
| 2018 | Early Career Achievement Award, American Psychological Association Society for Environmental, Population, & Conservation Psychology (Division 34) |
| 2017 | Nominated by student advisees and department for the CU Outstanding Faculty Mentor Award (not awarded) |

2010	Dissertation Initiative for the Advancement of Climate Change Research (DISCCRS), Symposium Scholar
2006 – 2008	Environmental Protection Agency, National Network for Environmental Management Scholars Graduate Student Fellowship (tuition and stipend support)
2003-2009	Graduate Student Fellowship, Vanderbilt University
2002	Magna Cum Laude, Transylvania University
2000-2002	Delta Sigma Pi Honorary, Transylvania University
1999-2002	Psi Chi Honorary, Transylvania University
1998-2002	Dean's Recognition Scholarship, Transylvania University

Funding

Externally Funded

2017 – 2022	National Science Foundation, PI Socioecological System Dynamics Related to Livelihood, Human Migration, and Landscape Evolution (NSF-CNH-1716909)	\$1.5 M
2016	National Science Foundation, co-PI Workshop for Information Exchange and Framework Development for the Study of Epidemiological, Hydrological, and Social Factors Contributing to Chronic Kidney Disease (CKDu) in Sri Lanka (NSF-HS 1638851)	\$37,950
2015 – 2017	Pepsico, PI Maximizing Recycling on a University Campus	\$150,000
2013 – 2017	National Science Foundation, PI Rebound vs. Gateway Effects of Pro-Environmental Behavior (NSF-SES 1325660)	\$497,949
2012 – 2017	National Science Foundation, co-PI Drought and Agricultural Adaptations: An Investigation of Vulnerabilities and Responses to Water Stress Among Paddy Farmers in Sri Lanka (NSF-EAR-1204685)	\$3.7M (\$518k to CU)
2011 – 2016	Office of Naval Research, co-I Environmental Stress and Human Migration in a Low-Lying Developing Nation (#N00014-11-1-0683)	\$4.5M (\$47k to CU)
2010 – 2013	National Science Foundation, co-I Grasses and Gases: Modeling Human Dynamics of Lawn Fertilization and Resultant Nitrous Oxide Emissions	\$450,000

Internally Funded Competitive Grants

2020 – 2021	Center to Advance Research and Teaching in Social Science (CARTSS) An analysis of the historical evolution of conservation appeals since 1960	\$4,500
2018 – 2019	CU Innovative Seed Grant, co-I Resilient and Sustainable Sanitation Systems: Characteristics, Links, and Barriers	\$50,000
2017 – 2018	Center for Science and Technology Policy Research Seed Grant, PI Emerging Responses to Genetically Modified Crops in Boulder County	\$6,000
2015 – 2016	CU School of Environment and Sustainability, co-PI Loving it to Death? Measuring and Managing for the Human Carrying Capacity of Open Space Lands	\$20,000
2011 – 2014	Vanderbilt University Discovery Grant, co-PI Climate Adaptation: Water-Energy Impacts, Perceptions and Behavior	\$99,532
2010 – 2011	Vanderbilt University International Office, co-PI Climate Change Adaptations: A Pilot Study on Drought Impacts, Perceptions, and Behavior	\$15,000
2010	Vanderbilt International Office, co-PI Climate Change Adaptations: Flood Impacts and Perceptions in Sri Lanka.	\$8,000

Bibliography

Underline indicates graduate student; dashed underline indicates undergraduate; *indicates postdoctoral fellow; ^shared first authorship; #indicates senior or corresponding author (if not first author), article led by advisee

Refereed articles and book chapters, published or in press

38. Raja, U. & #Carrico, A.R. (2021). A Qualitative Exploration of Individual Experiences of Environmental Virtual Reality Through the Lens of Psychological Distance. *Environmental Communication, in press.*
 37. Carrico, A.R., Donato, K.M., Best, K., Gilligan, J. (2020). Extreme Weather and Marriage among Girls and Women in Bangladesh. *Global Environmental Change, 65, 102160.*
<https://doi.org/10.1016/j.gloenvcha.2020.102160>.
 36. Best, K., Gilligan, J. Baroud, H., Carrico, A.R., Donato, K., Ackerly, B., Mallick, B. (2020). Random forest analysis of two household surveys can identify important predictors of migration in Bangladesh. *Journal of Computational Social Science, https://doi.org/10.1007/s42001-020-00066-9*
 35. Jones CR, Whitmarsh L, Byrka K, Capstick S, Carrico AR, Galizzi MM, Kaklamanou D and Uzzell D. (2019). Methodological, Theoretical and Applied Advances in Behavioral Spillover. *Frontiers in Psychological Psychology, 10, 2701.. doi: 10.3389/fpsyg.2019.02701*
 34. Tabatabaie, S., Litt, L., Carrico, A.R. (2019). A study of perceived nature, shade and trees and self-reported physical activity in Denver. *International Journal of Environmental Research and Public Health, 16(10), 3604. https://doi.org/10.3390/ijerph16193604*
 33. Eby, B., #Carrico, A.R., Truelove, H.B. (2019). Color me green: The influence of environmental identity labeling on the uptake of pro-environmental behaviors. *Climatic Change, https://doi.org/10.1007/s10584-019-02501-x*
 32. Carrico, A.R. & Donato, K. (2019). Extreme weather and migration: Evidence from Bangladesh. *Population & Environment, https://doi.org/10.1007/s11111-019-00322-9.*
 31. Carrico, A.R., Truelove, H.B., Williams, N.E. (2019). Social capital and resilience to drought among smallholding farmers in Sri Lanka. *Climatic Change, 155(2), 195-213.*
 30. *Maki, A., Carrico, A.R., Raimi, K.T., Truelove, H.B., Araujo, B., *Yeung, K.L. (2019). Meta-analysis of pro-environmental spillover. *Nature Sustainability, 2, 307-315.*
- Response**
- Abrahamse, W. (2019). How can people save the planet? *Nature Sustainability, 2(4), 264–264.* [Commentary]
29. Tozier de la Poterie, A., Burchfield, E., #Carrico, A.R. (2018). The implications of group norms for adaptation in collectively-managed agricultural systems: Evidence from Sri Lankan Paddy farmers. *Ecology and Society, 23(3), 21.*
 28. Burchfield, E., *Williams, N.E., #Carrico, A.R.. (2018). Assessing the expansion of a traditional adaptation strategy among rice farmers in Sri Lanka's dry zone. *Regional Environmental Change, 18(8), 2495-2503.*
 27. Carrico, A.R., Raja, U., Fraser, J.C., Vandenberg, M.P. (2018). Household and Block Level Influences on Residential Fertilizer Use. *Landscape and Urban Planning, 178, 60 – 68.*
 26. *Williams, N.E., #Carrico, A.R., Edirisinghe, I. and Champika, P.A.J. (2018). Assessing the impacts of agrobiodiversity maintenance on food security among farming households in Sri Lanka's dry zone. *Economic Botany, 72, 196-206.*
 25. Carrico, A.R., Raimi, K.T., Truelove, H.B., Eby, B. (2018). Putting your money where your mouth is: An experimental test of pro-environmental spillover from reducing meat consumption to monetary donations. *Environment and Behavior, 50, 723-748.*
 24. *Maki, A., Carrico, A.R., Vandenberg, M.P. (2017). Doing the wrong things for the right reasons: How Environmental Misinformation Affects Environmental Behavior *in: B.G.*

- Southwell, E.A. Thorson, and L. Sheble (Eds.), *Misinformation and Mass Audiences*. Austin, TX: University of Texas Press.
23. *Williams, N., #Carrico, A.R. (2017). Examining adaptations to water stress among farming households in Sri Lanka's Dry Zone. *Ambio*, 46(5), 532-542.
 22. Yoeli, E., Budescu, D.V., Carrico, A.R., Delmas, M.A., DeShazo, J.R., Ferraro, P.J., et al., (2017). Behavioral science tools for energy and environmental policy. *Behavioral Science and Policy Association*, 3(1), 69 – 79.
 21. Benneyworth, L., Gilligan, J., Ayers, J.C., Goodbred, S., George, G., Carrico, A., Karim, M.R., Akter, F., Fry, D. Donato, K., Piya, B. (2016). Drinking water insecurity: Water quality and access in coastal south-western Bangladesh. *International Journal of Environmental Health Research*, 26 (5-6).
 20. Donato, K.M., Carrico, A.R., Sisk, B., Piya, B. (2016). Different but the same: How legal status affects international migration from Bangladesh. *Annals of the American Academy of Political and Social Science*, 666, 203 – 218.
 19. Truelove, H.B., *Yeung, K.L., Carrico, A.R., Gillis, A.J., & Raimi, K. T. (2016). From plastic bottle recycling to policy support: An experimental test of pro-environmental behavior spillover. *Journal of Environmental Psychology*, 46, 55 – 66.
 18. *Raimi, K.T. & #Carrico, A.R. (2016). Understanding and beliefs about smart energy technology. *Energy Research & Social Science*, 12, 68 - 74
 17. Clayton, S., Devine-Wright, P. Swim, J., Bonnes, M., Steg, L. Whitmarsh, L. Carrico A.R. (2016). Expanding the role for psychology in addressing environmental challenges. *American Psychologist*, 71(3), 199 - 215.
- Responses**
- Bridgeman, B. (2016). Population growth underlies most other environmental problems: Comment on Clayton et al. (2016). *American Psychologist*, forthcoming, 72(4), 386-387.
 - Clayton, S., Carrico, A.R., Steg, L., Swim, J., Bonnes, M., Devine-Wright, P. (2017). Psychologists and the problem of population growth: Reply to Bridgeman. *American Psychologist*, 72(4), 388-389.
16. Clayton, S., Devine-Wright, P., Stern, P., Whitmarsh, L., Carrico, A.R., Steg, L., Swim, J., Bonnes, M. (2015). Psychological research and global climate change. *Nature Climate Change*, 5, 640-646.
 15. Carrico, A.R., Truelove, H.B., Vandenbergh, M.P., Dana, D. (2015). Does learning about climate change adaptation change support for mitigation? *Journal of Environmental Psychology*, 41, 19-29.
 14. Carrico, A.R., Vandenbergh, M.P., Stern, P.C., Dietz, T. (2015). US climate policy needs behavioural science. *Nature Climate Change*, 5, 177 – 179.
 13. Truelove, H.B., Carrico, A.R., Thabrew, L. (2015). A socio-psychological model for analyzing climate change adaptation: A case study of Sri Lankan paddy farmers. *Global Environmental Change*, 31, 85-97.
 12. Gu, C.; Crane, J., Hornberger, G., Carrico, A.R. (2015). The effects of household management practices on the global warming potential of urban lawns. *Journal of Environmental Management*, 151, 233-242.
 11. ^Truelove, H.B., ^Carrico, A.R., Weber, E., *Raimi, K.T., Vandenbergh, M.P. (2014). Positive and negative spillover of pro-environmental behavior. *Global Environmental Change*, 29, 127-138. [^shared first authorship]
 10. Carrico, A. R., Spoden, M., Wallston, K.A., Vandenbergh, M.P. (2013). The environmental cost of misinformation: Why the recommendation to use warm water for handwashing is problematic. *International Journal of Consumer Studies*, 37, 433-441.
 9. Carrico, A.R., Fraser, J., Bazuin, J.T. (2013). Green with envy: Psychological and social predictors of lawn fertilizer application, *Environment and Behavior*, 45(4), 427-454.

8. ^Warolin, J., ^**Carrico, A.R.**, Provenzano, E., Avolio, M., Whitaker, L.E., et al. (2012). Effect of BMI on prediction of accelerometry-based energy expenditure in youth. *Medicine & Science in Sports & Exercise*, 44(12), 2438-2435. [^shared first authorship]
7. **Carrico, A. R.**, Riemer, M. (2011) Motivating energy conservation in the workplace: An evaluation of the use of group-level feedback and peer education. *Journal of Environmental Psychology*, 31(1), 1 – 13.
6. **Carrico, A.R.**, Vandenberg, M.P., Stern, P.C., Gardner, G.T., Dietz, T., Gilligan, J.M. (2011). Energy and climate change: Key lessons for implementing the behavioral wedge. *Journal of Energy and Environmental Law, Winter*, 61 – 67.
5. Vandenberg, M.P., **Carrico, A.R.**, Bressman, L.S. (2011). Regulation in the behavioral era. *Minnesota Law Review*, 95(3), 715 – 781.
4. **Carrico, A. R.**, Padgett, P., Vandenberg, M. P., Gilligan, J. & Wallston, K. A. (2009). Costly myths: An analysis of idling beliefs and behavior in personal motor vehicles. *Energy Policy*, 37, 2881 – 2888.
3. Perry, J. E., Moore, I., Barry, B., Clayton, E. W. & **Carrico, A. R.** (2009). The ethical health lawyer: An empirical assessment of moral decision-making. *Journal of Law, Medicine & Ethics*, 37 (3), 461 – 475.
2. Stetson, B. A., **Carrico, A.R.**, Beacham, A. O., Ziegler, C. H., & Mokshagundam, S. P. (2006). Feasibility of a pilot intervention targeting self-care behaviors in adults with Diabetes Mellitus. *Journal of Clinical Psychology in Medical Settings*. 13, 239 – 249.
1. Helweg-Larsen, M., Cunningham, S. J., **Carrico, A.**, & Pergram, A. M. (2004). To nod or not to nod: an observational study of nonverbal communication and status in female and male college students. *Psychology of Women Quarterly*, 28, 358-361.

Peer reviewed national reports

1. National Academies of Sciences, Engineering, and Medicine. (2019). Environmental Engineering for the 21st Century: Addressing Grand Challenges. Washington, DC: The National Academies Press. [D. Grasso, C.H. Benson, **A.R. Carrico**, K. Chandran, G.W. Clough, J.C. Crittenden, D.S. Greenbaum, S.P. Hamburg, T.C. Harmon, J.M. Hughes, K.L. Jones, L.C. Marr, R. Perciasepe, S.Polasky, M.L. Savitz, N.R. Scott, R.. Trussell, J.B. Zimmerman]

Published abstracts

- Carrico, A.R.** & Wallston, K. (2010). Social desirability or acquiescence? A comparison of positively- and negatively-worded subscales within the Marlowe-Crowne Social Desirability Scale. *Annals of Behavioral Medicine*, 39, 25-25.
- Barry, B., **Carrico, A.R.**, Smith, W.P., Goates, N. (2006). Ethics across the boundaries of social identity: The role of intergroup bias in the perception of unethical behavior. *International Association of Conflict Management, Meetings Paper*.

Other publications

- Carrico, A.R.** (2009). Motivating pro-environmental behavior: An intervention to promote electricity conservation in an organizational setting. *Doctoral Dissertation, Vanderbilt University*.
- Carrico, A.R.** (2007). An evaluation of the Clean Air Partnership public education campaign: Results from the 2003, 2004, & 2007 community surveys. *Report prepared for the Clean Air Partnership of Middle TN*.
- Carrico, A.R.** (2005). An examination of partisan identity and political behavior in a panel study of college undergraduates during the 2004 U.S. federal election. *Master's Thesis, Vanderbilt University*.

Invited Talks

- 2020 NoCo Spaces, Boulder, CO
- 2019 School of Social Sciences & School of Social Ecology, University of California - Irvine
Summer Institute for Social and Personality Psychology (SISPP), New York, NY
Society for Personality and Social Psychology, Sustainability Preconference, Portland, OR
Vanderbilt Law School, BW+10 Workshop, Nashville, TN
- 2018 American Psychological Association, Early Career Award Address, San Francisco, CA.
Behavioral Science and Policy Association (keynote), Washington, D.C.
Independent University of Bangladesh, ICCCAD Seminar Series, Dhaka, Bangladesh.
Environmental Protection Agency, Energy Star Brownbag Series, National Webinar
University of Colorado, CU Population Center, Boulder, CO
- 2017 Colorado School of Mines, Van Tuyl Lecture Series, Golden, CO
University of Colorado, Colorado Climate Retreat, Boulder, CO
Ministry of Disaster Management, Climate Change Risk of Dry Zone Farmers, Sri Lanka
Ministry of Disaster Management, SEADS Technical Workshops, Sri Lanka
- 2016 Society for Personality and Social Psychology, San Diego, CA
Mahaweli Authority of Sri Lanka, Irrigation Management Division, Kurunegala, Sri Lanka
Denver University, Colorado Affective Science Workshop, Denver, CO
- 2015 Wilfrid Laurier University, Department of Psychology Seminar, Waterloo, Canada.
Claremont College, Workshop: Wellbeing and its Ecological Implications, Claremont, CA
Society for Personality and Social Psychology, Sustainability Preconference, Long Beach, CA
International Water Management Institute, Colombo, Sri Lanka
Vanderbilt University, Ethnosurvey in Global Contexts Workshop, Nashville, TN
University of Colorado, Sustainability Summit, Boulder, CO
- 2014 University of Colorado, School for the Environment and Sustainability Series, Boulder, CO
University of Colorado, CSTPR Research Seminar Series, Boulder, CO
National Building Research Organization, National Workshop, Colombo, Sri Lanka
- 2013 Columbia University, Workshop on Topics in Choice Architecture, New York, NY.
Indiana University, Vincent and Elinor Ostrom Workshop, Bloomington, IN
University of Virginia, Institutional Design for Conservation, Charlottesville, VA.
University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI
University of Colorado, Environmental Studies Program, Boulder, CO
George Mason University, Department of Environmental Science and Policy, Fairfax, VA
- 2012 EnergySavvy, Energy Summit, Seattle, WA
- 2011 University of Texas, Smart Grid Conference, Austin, TX
Tennessee Solar Valley Coalition, Environmental Outreach Symposium, Nashville, TN.
- 2010 George Washington University Law School, Energy and the Law, Washington, D.C.

Symposia Organized

- 2020 Chair, Assessing and Responding to the Psychosocial Impacts of Climate Change. *Society for Personality and Social Psychology, New Orleans, LA.*
- 2017 Co-Chair, Net Gains for Pro-Environmental Behavior: Rebound Effects and Gateway Effects, *Public Workshop held at the University of Michigan.*
- 2016 Co-Chair, Interdisciplinary Approaches to Sustaining Agriculture in a Water-Poor World. *American Geophysical Union, San Francisco, CA.*
- 2013 Co-chair, Water, Energy and Food Security in a Changing World. *American Geophysical Union Union Sessionn, San Francisco, CA.*

Oral Presentations at Refereed Professional Meetings

- Carrico A.R.**, Rogers, K.G., Wilson, C., Donato, K., Gilligan, J. (2020). Livelihoods, Mobility, and Flood Infrastructure in the Ganges-Brahmaputra-Meghna Delta. *American Geophysical Union Annual Meeting* [Virtual due to COVID-19 pandemic]
- Raja, U.** & **Carrico, A.R.**, Environmental Virtual Reality: An Exploration of First Time User Experiences. *American Geophysical Union Annual Meeting* [[Virtual due to COVID-19 pandemic]
- Valentine, L.A.**, Wilson, C.A., **Carrico A.R.** (2020). The effects of erosion on migration and sustainability of three barforms in the Lower Meghna River, Bangladesh. *Geological Society of America Annual Meeting* [Virtual due to COVID-19 pandemic]
- Carrico, A.R.**, Donato, K.M., **Best, K.**, Gilligan, J. (2020). Is climate change exacerbating gender inequality? *European Association for Social Psychology, Krakow Poland* [canceled due to COVID-19 pandemic]
- Donato K, **Carrico AR**, **Valentine L**, Wilson C, Rogers, K (2020). Migration and the Changing Physical Landscape in Bangladesh. *Population Association of America, Washington DC* [canceled due to COVID-19 pandemic]
- Carrico, A.R.**, Donato, K.M., Best, K, Gilligan, J. (2020). Extreme Weather and the Probability of Marriage among Women in Bangladesh. *Society for Personality and Social Psychology, New Orleans, LA*.
- Osborne-Gowey, J.** & **Carrico, A.R.** (2019). The role of social networks in knowledge transmission and farming practices in Sri Lankan agricultural systems. *International Conference on Environmental Psychology, Plymouth, United Kingdom*.
- Carrico, A.R.**, Donato, K.M., Gilligan, J. (2019). Extreme Weather and the Probability of Marriage among Women in Bangladesh. *Population Association of America, Austin, TX*.
- Carrico, A.R.** & Donato, K.M. (2019). The effects of social networks on environmentally induced migration in Bangladesh. *Gobeshana5: International Conference on Climate Knowledge, Dhaka, Bangladesh*.
- Best, K.**, Gilligan, J.M., Baroud, H., **Carrico, A.R.**, Donato, K., Ackerly, B., Mallick, B. (2018). A Machine Learning Analysis of Multiple Social Surveys to Understand Environmental Migration in Coastal Bangladesh. *Annual Meeting of the American Geophysical Union, Washington D.C*.
- Chambers, K.**, **Carrico, A.**, & Cook, S.M. (2018). Social Network Patterns of Latrine Re-adoption Following Flood Events, *North Carolina Water and Health Conference, Chapel Hill, NC*.
- Carrico, A.R.**, *Maki, A., Truelove, H.B., Raimi, K.T. (2018). Rebound or gateway effects? An investigation into pro-environmental spillover. *International Congress of Applied Psychology, Montreal, Canada*.
- Carrico, A.R.** & **Fried, E.** (2018). Increasing Recycling in an Organizational Setting: Results from Two Intervention Studies. *International Congress of Applied Psychology, Montreal, Canada*.
- Carrico, A.R.** & Donato, K. (2018). Do social ties moderate the effect of extreme weather on migration? Evidence from Bangladesh. *Annual Meeting of the Population Association of America, Denver, CO*.
- Riemer, M. & **Carrico, A.R.** (2017). Group Level Feedback & Peer Education in Office Buildings. *International Conference of Environmental Psychology, A Coruña, Spain*.
- Carrico, A.R.**, Gilligan, J., Truelove, H.B. (2016). Actual vs. Perceived Climate Variability among Smallholding Rice Farmers. *Annual Meeting of the American Geophysical Union, San Francisco, CA*.
- Carrico, A.R.** (2016). How Does Policy Affect Our Attitudes and Beliefs About Climate Change? *Annual convention of the American Psychological Association, Denver CO*.
- Raimi, K. T., **Carrico, A, R.**, & Truelove, H. B. (2016). Climate change spillover: When does one pro-climate behavior affect subsequent climate action? *Annual meeting of Society for Experimental Social Psychology, Santa Monica, CA*.
- Piya, B.**, Donato, K., Sisk, B., **Carrico, A.R.** (2016). Migration, social capital, and the environment in Bangladesh. *Annual meeting of the Population Association of America, Washington, D.C*.

- Donato, K., **Carrico, A.R.**, Sisk, B., Piya, B. (2016). Different but the same: How legal status affects international migration from Bangladesh. *Annual meeting of the Population Association of America, Washington, D.C.*
- Hornberger, G.M. & **Carrico, A.R.** (2012). Determining paths by which farmers can adapt effectively to scarce freshwater resources. *American Geophysical Union Annual Meeting, San Francisco, CA.*
- Carrico, A.R.**, Riemer, M. (2012). Group level feedback & peer education in commercial buildings. *Climate, Mind and Behavior Symposium, The Garrison Institute, Garrison, NY.*
- Carrico, A.R.**, Truelove, H.B., Vandenberg, M.P., Dana, D. (2011). Does information about adaptation to climate change affect support for mitigation? *Behavior, Energy and Climate Change Annual Meeting, Washington, D.C.*
- Carrico, A.R.**, Fraser, J., Bazuin, J. (2011). Exploring factors that shape household lawn fertilization. *Association of American Geographers Annual Meeting, Seattle, WA.*
- Bazuin, J.T., Fraser, J.C., **Carrico, A.R.** (2011). The use of spatialized social networks to analyze neighborhood influences on household decision making around yard care. *Association of American Geographers Annual Meeting, Seattle, WA.*
- Fraser, J., Bazuin, J., **Carrico, A.R.** (2011). The construction of neighborhood and its effects on lawn fertilization rates. *Association of American Geographer's Annual Meeting, Seattle, WA.*
- Carrico, A.R.** & Riemer, M. (2008). Towards an evidence-based approach to environmental behavior change programs: a case study of Vanderbilt's "ThinkOne" energy conservation campaign. *Behavior, Energy and Climate Change Conference, Sacramento, CA.*
- Carrico, A.R.**, Wallston, K. A., Vandenberg, M. T. (2008). The effects of public education on pro-environmental attitudes and behavior: Results from Nashville's outreach efforts. *National Air Quality Conferences, Portland, OR.*
- Carrico, A.R.**, Barry, B., Smith, W.P., & Goates, N. (2006). Ethics across the boundaries of social identity: The role of intergroup bias in the perception of unethical behavior. *International Association of Conflict Management, Montreal, Canada.*
- Carrico, A.R.**, Artates, L.M., Vandenberg, M.P., Wallston, K.A., Cohen, M. (2006). Motivating individuals to action through psychology: Applying theories of behavior change to the development of a public awareness campaign. *National Air Quality Conference, San Antonio, TX.*

Posters Presented at Professional Meetings

- Carrico, A.R.**, Donato, K. (2018). Human Migration as a Response to Extreme Temperature and Rainfall: Historical Evidence from Bangladesh. *American Geophysical Union, Washington D.C.*
- Valentine, L.A., Wilson, C., Rogers, K.G., **Carrico, A.R.**, Donato, K., Gilligan, J.M. (2018). Sediment Accretion and Erosion in Poldered and Non-Poldered Regions within the Ganges-Brahmaputra-Meghna Delta, Bangladesh: Implications for River Channel Migration and Flood Risk. *Annual Meeting of the American Geophysical Union, Washington D.C.*
- Lee-Ammons, N. & **Carrico, AR** (2018). Support for policies regulating genetically modified foods: The roles of risk, trust, and knowledge. *Society for Personality and Social Psychology, Sustainability Pre-conference.*
- Carrico, A.R.**, Donato, K., Piya, B. (2017). Cyclone impacts on migration in coastal Bangladesh. *Population Association of America, Chicago, IL.*
- *Williams, N.E. & **Carrico, A.R.** (2016). Examining adaptations to water stress among farming households in Sri Lanka's dry zone. *American Geophysical Union Annual Meeting, San Francisco, CA.*
- Jacobi, J., **Carrico, A.R.**, Gilligan, J., Hornberger, G. (2012). Diffusion of a sustainable farming technique in Sri Lanka: An agent-based modeling approach. *American Geophysical Union Annual Meeting, San Francisco, CA.*
- Truelove, H.B., **Carrico, A.R.**, Thabrew, L., Jacobi, J. & Hornberger, G. (2012). Agricultural adaptation in Sri Lanka: Psychological and Environmental Influences. *American Psychological Association Annual Meeting, Orlando, FA.*

- Carrico, A.R.**, Schlundt, D., Wallston, K., Buchowski, M. (2010). Commuter choices & carbon footprints: A feasibility study using GPS and accelerometry to measure transportation behavior. *Behavior, Energy and Climate Change Conference, Sacramento, CA.*
- Carrico, A.R.**, Wallston, K.A. (2010). Social desirability or acquiescence bias? A comparison of positively- and negatively-worded subscales within the Marlowe-Crowe Social Desirability Scale. *Society for Behavioral Medicine Annual Meeting, Seattle, WA*
- Carrico, A.R.** & Riemer, M. (2009). Motivating pro-environmental behavior in an organizational setting: the use of feedback and peer education to reduce energy use. *Behavior, Energy and Climate Change Conference, Washington, D.C.*
- Wallston, K.A., Osborn, C.Y., & **Carrico, A.R.** (2009). The problem with balanced scales: Factor analyses of the perceived expectancies index. *Society for Behavioral Medicine Annual Meeting, Montreal, Canada.*
- Carrico, A.R.**, Wallston, K., Cohen, M. & Vandenberg, M. (2007). Activating norms to change driving habits: An examination of persuasive communication techniques based on the norm activation model. *Behavior, Energy and Climate Change Conference, Sacramento, CA.*
- Smith, W.P., **Carrico, A.R.**, Barry, B. (2006). The reciprocal relationship between political identity and politically relevant variables. *Society for Experimental and Social Psychology, Philadelphia, PA.*
- Carrico, A.R.**, Smith, W.P., & Barry, B. (2006). Political party identity and political action in a presidential election: A panel study. *International Society for Political Psychology, Barcelona, Spain.*
- Carrico, A.R.**, Smith, W.P. & Barry, B. (2006). Politics and identity: An examination of partisan identity and political behavior in a panel study of college undergraduates during the 2004 U.S. federal election. *Society of Personality and Social Psychology, Palm Springs, CA.*
- Smith, W. P., **Carrico, A.R.**, & Barry, B. (2005). Political party identity, ideology, and activism among first-time voters in a presidential election: A preliminary report of a panel study. *Society of Experimental Social Psychology, San Diego, CA.*
- Smith, W. P., **Carrico, A.R.**, & Barry, B. (2005). The group roots of activism: A study of undergraduate student partisan identity and political activism during the fall, 2004 presidential campaign. *Psychologists for Social Responsibility, Portland, OR.*
- Carrico, A.R.**, Barry, B., & Smith, W. P. (2005). Moral inconsistencies: The role of intergroup bias in the perception of unethical behavior. *Society of Personality and Social Psychology, New Orleans, LA.*
- Smith, W. P., **Carrico, A.R.**, & Long, A. (2004). Related attributes and the social comparison of ability: The proxy effect and social identity processes. *Annual meeting of the Society for Experimental and Social Psychology, Fort Worth, TX.*
- Stetson, B.A., Beacham, A.O., **Carrico, A.**, Ziegler, C.H. (2003). "Take Charge of Your Lifestyle": A pilot self-regulation intervention targeting cardiovascular disease risk reduction in adults with Diabetes Mellitus. *Association for the Advancement of Behavioral Therapy, Boston, MA.*
- Pergrem, A., Cunningham, G., Helweg-Larsen, M., & **Carrico, A.** (March, 2002). Nonverbal communication and status: An observational study of subordination in male college students. *Kentucky Psychological Association Poster Conference, Louisville, KY.*

Professional Service and Leadership Activities

Professional service within the University of Colorado

2020 – present	Boulder Faculty Assembly, Student Affair Committee
2020 – present	Representative, Boulder Faculty Assembly
2014 – present	ENVS Graduate Committee
2020 – 2021	Primary Unit Evaluation Committee (Peter Newton)
2017 – 2019	Associate Director of Environmental Studies, Director of Graduate Studies, University of Colorado at Boulder
2017 – 2019	ENVS colloquium coordinator
2014 – 2019	ENVS Executive Committee / Merit Review Committee
2017	Primary Unit Evaluation Committee (Atreyee Bhattacharya)

2016 – 2017 Search Committee (Natural Resource Policy and Governance)

Professional service outside of the University of Colorado

2020 - Executive Committee Member-At-Large / Membership Chair, Division 34, American Psychological Association

2018 – 2019 Guest Editor, Special Issue: Methodological, Theoretical and Applied Advances in Behavioural Spillover, *Frontiers in Psychology*

2018 – 2019 Awards Committee, APA Society for Environmental, Population, and Conservation Psychology

2017 – 2019 Invited Member, Committee on Grand Challenges and Opportunities in Environmental Engineering and Science for the 21st Century, National Academies of Science, Engineering, and Medicine

2015 - 2018 Associate Deputy Editor, *Climatic Change*

2016 Invited Member, Behavioral Science and Policy Association (BPSA), Energy & Environment Working Group. (*Invited participant on a panel convened to make recommendations for the White House Behavioral and Social Science team on the design of environmental policy within the federal government*)

2015 – 2016 Divisional Programming Chair, 2016 APA Convention (Division 9: SPSSI)

2005 – 2013 Board of Directors, Clean Air Partnership of Middle Tennessee

2010 – 2013 Environmental Advisory Committee, Vanderbilt University

2007 – 2008 Environmental Mission Statement Working Group, Vanderbilt University

Grant reviews

NSF; USDA National Institute for Food and Agriculture; Research Council of Norway: Energy Research Program; Dissertation Initiative for the Enhancement of Climate Change Research (DISCCRS)

Journal reviews

Population and Environment; Psychological Science, Nature Climate Change, American Psychologist, Journal of Environmental Psychology, Perspectives on Psychological Science, Environment and Behavior, American Journal of Community Psychology, Energy Policy, Ecopsychology, PLOS One, American Sociological Review, Climatic Change, American Journal of Public Health, Journal of Cleaner Production; International Journal of Disaster Risk Reduction

Memberships

American Geophysical Union (AGU); Society for Personality and Social Psychology; Society for the Psychological Study of Social Issues (SPSSI); American Psychological Association, Division 34 - Environmental, Population and Conservation Psychology; Population Association of America (PAA)

Teaching & Advising

Courses Taught

2020 ENVS 4100: Applied Social Research

2018 - 2020 ENVS 3031: Environmental Psychology

2018 ENVS 5100: Behavioral Insights for Sustainability

2014 - 2017 ENVS 3031: Energy and Human Behavior

2015 - 2017 ENVS 4800: Environment and Development in South Asia

2014 - 2019 ENVS 5120: Survey Methodology

2015 ENVS 5160: Loving it to Death? Measuring and Managing for the Human Carrying Capacity of Open Space Lands

2014 ENVS 4800: Human Behavior in the Commons

Primary Advisees

Postdoctoral Fellows

Nicholas Williams (2015 – 2017)

Graduate Students

Urooj Raja (PhD, 5th year, passed dissertation prospectus exam)
Jeremiah Osborne-Gowey (PhD, co-advisor, 5th year, passed prospectus exam)
Victoria Stout, Environmental Studies (PhD, 3rd year, passed prospectus exam)
Helen Wilson, Environmental Studies (PhD 1st year)
Brienne Eby (MS, graduated in 2016)
Nathan Lee-Ammons (MS, graduated in 2019)

Undergraduate Honors Students

Aiden Jorgenson (expected 2021);
Taylor Heisler (expected 2021);
Mikaila Wahl (expected 2020).

Completed: Brenna Wider (Graduated 2018); Rachel Halverson (Graduated 2018); Alejandra Pedraza (Graduated 2017); Kelly Buchanan (Graduated 2016); Sarah Egner (Graduated 2016); Joshua Temes (Graduated 2016); Mary O’Neill (Graduated 2015)

Secondary Advisees & Committees

Postdoctoral Fellows

Alexander Maki, Vanderbilt University (2015-2018, advising committee)
Kaitlin Raimi, Vanderbilt University (2014-2016, advising committee)

Graduate Students

Emily Burchfield (PhD Environmental Engineering 2017, advised secondary research project 2013-17)
Arielle Tozier de la Poterie (PhD Environmental Studies, advised as a graduate research fellow 2015-17)
Xi Wang (PhD student in Geography, advised as a graduate research fellow 2015-16)

Graduate Committees

Current: Anna Hermes, ENVS (PhD, committee member); Katherine Chambers, Environmental Engineering (PhD, committee member); Diana Dorman (PhD, committee member). ***Completed:*** James Harper, Environmental Engineering (PhD 2020, committee member); Allison Gray (PhD 2020, external committee member, U. of Windsor); Stefi Mitova, Environmental Studies (PhD 2020, committee member); Sarah Tabatabaie (PhD 2018, committee member); Marisa McNatt (PhD 2018, committee member); Bethany Rigles (PhD 2018, committee member); Arielle Tozier de la Poterie (PhD, 2017, project advisor & committee member); Lucy McAllister (PhD 2017, committee member); Chris Jochem (PhD 2016, committee member); Rebecca Schild (PhD 2016, committee member); Emily Burchfield (PhD 2017); John Jacobi (PhD 2014); John Crane (PhD 2015); Charlotte Buehler (MPH 2014)

Undergraduate Honors Committees

Lindsey Boudreau (2018); William Downie (2017-18); Aaron Charney (2015-16); Margaret Fryke (2014-15); Erica Jacobs (2014-15); Alison Shlom (2014-15)

Outreach and Communication

Research Covered By

CNN (2019); CBC News (2019); National Public Radio, PA affiliate (2019); APA Monitor (2019); Dhaka Tribune (2019); Vox (2018); Reader’s Digest (2018); BBCNews (2017); Futurity (2017);

Scientific American (2017); Washington Post (2016, 2015, 2014); Women's Health Magazine (2014); Miami Herald (2014); Smithsonian Magazine (2013); National Geographic (2013); Grist (2013); ThirdAge.com (2013); Futurity (2013); San Francisco Valley Sun (2013) Psychology Today (2013); The Tennessean (2011, 2010); Pacific Standard (2009); USA Today (2009)