

BETHANY A. BRADLEY

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PROFESSIONAL APPOINTMENTS

University of Massachusetts, Amherst, MA	
Professor of Biogeography & Spatial Ecology	2020 – present
Associate Professor of Biogeography & Spatial Ecology	2016 – 2020
Assistant Professor of Biogeography & Spatial Ecology	2010 – 2016
Amherst College, Amherst, MA	
Copeland Fellow, Department of Biology	2009 – 2010
Princeton University, Woodrow Wilson School, Princeton, NJ	
Postdoctoral Fellow	2006 – 2009

EDUCATION

Brown University, Providence, RI	
PhD, Geological Sciences (<i>Terrestrial Remote Sensing</i>)	2006
MSc, Geological Sciences	2003
Pomona College, Claremont, CA	
BA, Geology	2000

RESEARCH INTERESTS

I am interested in what the geographical distributions of species can tell us about their ecology, biology and interactions with anthropogenic changes. My research focuses on invasion ecology, global change ecology, and biological conservation using tools from biogeography and spatial ecology.

PEER-REVIEWED PUBLICATIONS

*Advisees are underlined - #Postdoc, *Graduate student, †Undergraduate student*

75. Beaury, E.M.*, E.J. Fusco[#], M.R. Jackson, B.B. Laginhas*, T. Morelli, J.M. Allen, V. Pasquarella[#], **B.A. Bradley** “*Incorporating climate change into invasive species management - insights from managers*”, *Biological Invasions*, 22, 233-252, 2020
74. Mietkiewicz, N. J.K. Balch, T. Schoennagel, L.A. St. Denis, and **B.A. Bradley**. 2020. “*In the Line of Fire: Consequences of Human-Ignited Wildfires to Homes in the U.S. (1992–2015)*”, *Fire* 3(3), 50; <https://doi.org/10.3390/fire3030050>
73. Nagy, R.C., E.J. Fusco[#], J.K. Balch, J.T. Finn, A. Mahood, J. Allen, and **B.A. Bradley**. 2020. “*A synthesis of the effects of cheatgrass invasion on Great Basin carbon storage*”, In Press, *Journal of Applied Ecology*
72. Rockwell-Postel, M.[†], B.B. Laginhas*, and **B.A. Bradley**, “*Supporting proactive management in the context of climate change: Prioritizing range-shifting invasive plants based on impact*”, *Biological Invasions*, 22, 2371-2383, 2020
71. Wallingford, P.D., T.L. Morelli, J.M. Allen, E.M. Beaury*, D.M. Blumenthal, **B.A. Bradley**, J.S. Dukes, R. Early, E.J. Fusco[#], D.E. Goldberg, I. Ibáñez, B.B. Laginhas*, M. Vilà, C.J.B. Sorte,

- “Adjusting the lens of invasion biology to focus on impacts of climate-driven range shifts”, *Natural Climate Change*, 10, 398-405, 2020
70. Williamson, M., E. Fleishman, R. MacNally, J. Chambers, **B.A. Bradley**, D. Dobkin, D. Board, F. Fogarty, N. Horning, M. Leu, and M. Wohlfeil, “Associations of fire, livestock grazing, topography, and climate with occurrence and prevalence of cheatgrass (*Bromus tectorum*) in the central Great Basin, USA”, *Biological Invasions*, 22, 663-680, 2020
 69. Beaury, E.M.*, J.T. Finn, J.D. Corbin, V. Barr, and **B.A. Bradley**, “Biotic resistance to invasion is ubiquitous across ecosystems of the United States”, *Ecology Letters*, 23, 476-482, 2019
 68. **Bradley, B.A.**, B.B. Laginhas*, R. Whitlock, A.E. Bates, G. Bernatchez, J.M. Diez, J.M. Allen, R. Early, J. Lenoir, M. Vila, and C.J.B. Sorte, “Disentangling the abundance-impact relationship for invasive species”, *Proceedings of the National Academy of Sciences*, 116(20), 9919-9924, 2019
 67. Curtis, C.A.*, V.J. Pasquarella#, and **B.A. Bradley**, “Landscape characteristics of non-native pine plantations and invasions in Southern Chile”, *Austral Ecology*, 44, 1213-1224, 2019
 66. Fusco, E.J.#, J.T. Finn, J.K. Balch, R.C. Nagy, and **B.A. Bradley**, “Invasive grasses increase fire occurrence and frequency across U.S. ecoregions”, *Proceedings of the National Academy of Sciences*, 116(47), 23594-23599, 2019
 65. Fusco, E.J.*, J.T. Finn, J.T. Abatzoglou, J.K. Balch, S. Dadashi, and **B.A. Bradley**, “Detection rates and biases of fire observations from MODIS and agency reports in the conterminous US”, *Remote Sensing of Environment*, 220, 30-40, 2019
 64. Fusco, E.J.*, B. Rau, M. Falkowski, S. Filippelli, and **B.A. Bradley**, “Accounting for aboveground carbon storage in woodland ecosystems”, *Ecosphere*, 10(8), e02821, 2019
 63. Gallardo, B., S. Bacher, **B. Bradley**, F.A. Comin, L. Gallien, J.M. Jeschke, C.J.B. Sorte, and M. Vila “*InvasiBES: Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services*”, *NeoBiota*, 50, 109-122, 2019
 62. Shiklomanov, A.N., **B.A. Bradley**, K. Dahlin, A. Fox, C. Gough, F.M. Hoffman, E. Middleton, S. Serbin, L. Smallman, W. Smith, “Enhancing global change experiments through integration of remote sensing techniques”, *Frontiers in Ecology & Environment*, 17(4), 215-224, 2019
 61. Abatzoglou, J.T., J.K. Balch, **B.A. Bradley**, and C.A. Kolden, “Human-related ignitions concurrent with high winds promote large wildfires across the US”, *International Journal of Wildland Fire*, <https://doi.org/10.1071/WF17149>, 2018
 60. **Bradley, B.A.**, J.M. Allen, M.W. O’Neill, R.D. Wallace, C.T. Barger, J.A. Richburg, and K. Stinson, “Invasive species risk assessments need more consistent spatial abundance data”, *Ecosphere*, 9(7), e02303, <https://doi.org/10.1002/ecs2.2302>, 2018
 59. **Bradley, B.A.**, C.A. Curtis*, E.J. Fusco*, J.T. Abatzoglou, J.K. Balch, S. Dadashi, and M.N. Tuanmu, “Cheatgrass (*Bromus tectorum*) distribution in the intermountain western United States and its relationship to fire frequency, seasonality, and ignitions”, *Biological Invasions*, 20(6), 1493-1506, 10.1007/s10530-017-1641-8, 2018
 58. Nagy, R.C.#, E.J. Fusco*, **B.A. Bradley**, J.T. Abatzoglou, and J.K. Balch, “Human influence on large wildfires across U.S. ecoregions”, *Fire*, 1(1): 4, doi: 10.3390/fire1010004, 2018
 57. Pasquarella, V.J.#, J.S. Elkinton, and **B.A. Bradley**, “Extensive gypsy moth defoliation in Southern New England characterized using Landsat satellite observations”. *Biological Invasions*, <https://doi.org/10.1007/s10530-018-1778-0>, 2018
 56. Ziska, L.H., **B.A. Bradley**, R.D. Wallace, C.T. Barger, J.H. LaForest, R.A. Choudhury, K.A. Garrett, and F.E. Vega, “Climate Change, Carbon Dioxide and Pest Biology: Managing the Future”, *Agronomy*, 8(152), doi:10.3390/agronomy8080152, 2018
 55. Balch, J.K., **B.A. Bradley**, J.T. Abatzoglou, R.C. Nagy, E.J. Fusco* and A.L. Mahood, “Human-started fires expand the fire niche across the U.S.”, *Proceedings of the National Academy of Sciences*, 114(11): 2946-2951, doi: 10.1073/pnas.1617394114, 2017

54. Cross, T.*, J.T. Finn and **B.A. Bradley**, “*Frequency of invasive plant occurrence is not a suitable proxy for abundance in the Northeast US*”, *Ecosphere* 8(5):e01800. 10.1002/ecs2.1800, 2017
53. Pasquarella, V.J.#, **B.A. Bradley**, and C.E. Woodcock “*Near-real-time monitoring of insect defoliation using Landsat time series*” *Forests* 8(8), 275, 10.3390/f8080275, 2017
52. Renwick, K.M., C. Curtis*, A.R. Kleinhesselink, D. Schlaepfer, **B.A. Bradley**, C.L. Aldridge, B. Poulter, and P.B. Adler, “*Multi-model comparison highlights consistency in predicted effect of warming on a semi-arid shrub*” *Global Change Biology*, 10.1111/gcb.13900, 2017
51. Abatzoglou, J., C. Kolden, J. Balch and **B. Bradley**, “*Controls on interannual variability in lightning-caused fire activity in the western US*”, *Environmental Research Letters*, 11: 045005, 2016
50. Allen, J.M.# and **B.A. Bradley**, “*Out of the weeds? Reduced plant invasion risk with climate change*”, *Biological Conservation*, 203:306-312, 2016
49. Bocsi, T.†, J.M. Allen#, J. Bellemare, M. Nishino, J. Kartesz and **B.A. Bradley**, “*Plants’ native distributions do not reflect climatic tolerance*”, *Diversity & Distributions*, 22: 615-624, 2016
48. **Bradley, B.A.**, “*Predicting abundance with presence-only models*”, *Landscape Ecology*, 31(1):19-30, 2016
47. **Bradley, B.A.**, C.A. Curtis* and J.C. Chambers, “*Bromus response to climate and projected changes with climate change*”, in: Brown, C., Chambers, J. and Germino, M. (eds.), *Exotic brome grasses in Arid and Semiarid Ecosystems of the western US*, Springer Series on Environmental Management, 2016
46. Curtis, C.A.* and **B.A. Bradley**, “*Plant distribution data show broader climatic limits than physiological tolerance estimates*”, *PLoS One*, 11(11): p.e0166407, 2016
45. Dawson, M.N., J.C. Axmacher, C. Beierkuhnlein, J.L. Blois, **B.A. Bradley**, A.F. Cord, J. Dengler, K.S. He, L.R. Heaney, R. Jansson, M.D. Mahecha, C. Myers, D. Noguez-Bravo, A. Papadopoulou, B. Reu, F. Rodriguez-Sanchez, M.J. Steinbauer, A. Stigall, M.N. Tuanmu, D.G. Gavin. 2016. “*A second horizon scane of biogeography: Golden Ages, Midas touches, and the Red Queen*”, *Frontiers of Biogeography*, 8(4): e29770, doi: <https://doi.org/10.21425/F58429770>
44. Early, R., **B.A. Bradley**, J.S. Dukes, J.J. Lawler, J.D. Olden, D.M. Blumenthal, C.M. D’Antonio, P. Gonzalez, E.D. Grosholz, I. Ibañez, L.P. Miller, C.J.B. Sorte and A.J. Tatem, “*Global threats from invasive alien species in the twenty-first century and national response capacities*”, *Nature Communications*, 7:12485, 2016
43. Fusco, E.J.*, J.T. Abatzoglou, J.K. Balch, J. Finn and **B.A. Bradley**, “*Quantifying the human influence on fire ignition across the western US*”, *Ecological Applications*, 26(8): 2388-2399, 2016
42. Spasojevic, M.J., C.A. Bahlai, **B.A. Bradley**, B.J. Butterfield, M-N Tuanmu, S. Sistla, R. Wiederholt and K.N. Suding, “*Scaling up the diversity-resilience relationship with remote sensing: large fires and productivity*”, *Global Change Biology*, 22: 1421-1432, 2016
41. **Bradley, B.A.**, R. Early, C.J.B. Sorte “*Space to invade? Comparative range infilling and potential range of invasive and native plants*”, *Global Ecology & Biogeography* 24(3):348-359, 2015
40. Curtis, C.A.* and **B.A. Bradley**, “*Climate change increases risk of invasive plant abundance in the southwestern USA*”, *Invasive Plant Science and Management* 8(3):341-352, 2015
39. He, K.; **B.A. Bradley**, A. Cord, D. Rocchini M-N. Tuanmu, S. Schmidtlein, W. Turner, M. Wegmann, N. Pettorelli, “*Will remote sensing shape the next generation of species distribution models?*”, *Remote Sensing in Ecology & Conservation* 1(1): 4-18, 2015
38. **Bradley, B.A.**, “*Remote detection of invasive plants, a review of spectral, textural and phenological approaches*”, *Biological Invasions* 16(7):1411-1425, 2014
37. **Bradley, B.A.**, *The biogeography of invasive plants – projecting range shifts with climate change* pages 240-252 in Dukes, J.S. and Ziska, L.H. (eds.), *Invasive Species and Climate Change*. CABI Publishing, August 2014

36. Chambers, J.C., **B.A. Bradley**, C.M. D'Antonio, J.B. Grace, S.P. Hardegree, R.F. Miller, and D.A. Pyke, "*Resilience to Disturbance and Resistance to Invasive Alien Grasses in Arid and Semi-arid Ecosystems: Lessons from the Cold Desert of Western North America*", *Ecosystems*, 17(2): 360-375, 2014
35. Estes, L.D., L-L. Paroz, **B.A. Bradley**, J.M.H. Green, D.G. Hole, S. Holness, G. Ziv, M.G. Oppenheimer, and D.S. Wilcove, "*Using changes in agricultural potential to quantify future climate-induced risk to conservation*", *Conservation Biology* 28(2): 427-437, 2014
34. Ibáñez, I., J.M. Diez, L.P. Miller, J.D. Olden, C.J.B. Sorte, D.M. Blumenthal, **B.A. Bradley**, C.M. D'Antonio, J.S. Dukes, R.I. Early, E.D. Grosholz, and J.J. Lawler, "*Integrated assessment of biological invasions*", *Ecological Applications* 24(1): 25-37, 2014
33. Vieira, R.*, J. Finn and **B.A. Bradley**, "*How much do distribution data influence models of invasion risk? A comparison of independent datasets in western Massachusetts*", *Landscape Ecology* 29: 1601-1612, 2014
32. Balch, J.K., **B.A. Bradley**, C.M. D'Antonio, and J. Gomez-Dans, "*Introduced annual grass increases regional fire activity across the arid western USA (1980-2009)*", *Global Change Biology*, 19(1): 173-183, 2013
31. Blumenthal, D.M., **Bradley, B.A.**, Dukes, J.S., Ziska, L.H., *Climate change and agriculture*, in: Walthall, C.L., Hatfield, J., Backlund, P., Lengnick, L., Marshall, E., Walsh, M. (eds.), *Climate change and agriculture: Effects and adaptation*. USDA, 2013
30. **Bradley, B.A.**, "*Distribution models of invasive plants over-estimate potential impact*", *Biological Invasions*, 15(7): 1417-1429, 2013
29. Estes, L.D., **B.A. Bradley**, H. Beukes, W. Durand, D. Hole, M. Lau, M. Oppenheimer, R. Schulze, M.A. Tadross, and W. Turner, "*Comparing mechanistic and empirical models for assessing environmental suitability of a well understood crop species: Implications for ecological forecasting*", *Global Ecology & Biogeography*, 22: 1007-1018, 2013
28. Estes, L.D., H. Beukes, **B.A. Bradley**, M. Oppenheimer, A. Ruane, R. Schulze, M. Tadross and D.S. Wilcove, "*Projected climate impacts to South African maize and wheat production in 2055: A comparison of empirical and mechanistic modeling approaches*", *Global Change Biology*, 19(12): 3762-3774, 2013
27. Lehan, N.E.†, J.R. Murphy†, L.P. Thorburn† and **B.A. Bradley**, "*Accidental introductions are an important source of invasive plants in the continental U.S.*", *American Journal of Botany*, 10(7): 1287-1293, 2013
26. Bernazzani, P., **B.A. Bradley**, and J. Opperman, "*Integrating Climate Change into Habitat Conservation Plans under the U.S. Endangered Species Act*", *Environmental Management* 49:1103-1114, 2012
25. **Bradley, B.A.**, A.D. Olsson, O. Wang, B.G. Dickson, L. Pelech*, S.E. Sesnie, and L. Zachmann "*Detection vs. suitability: Dangers of biasing habitat suitability models for vegetation with remote sensing data*", *Ecological Modelling*, 244: 57-64, 2012
24. **Bradley, B.A.**, L.D. Estes, D.G. Hole, S. Holness, M. Oppenheimer, W.R. Turner, H. Beukes, R. Schulze, M.A. Tadross, and D.S. Wilcove, "*Predicting how human adaptation to climate change will affect ecological conservation: secondary impacts of shifting agriculture*", *Diversity & Distributions*, 18: 425-437, 2012
23. **Bradley, B.A.**, D.M. Blumenthal, R. Early, E.D. Grosholz, J.J. Lawler, L.P. Miller, C.J.B. Sorte, C.M. D'Antonio, J.M. Diez, J.S. Dukes, I. Ibáñez, and J.D. Olden, "*Global change, global trade, and the next wave of plant invasions*", *Frontiers in Ecology and the Environ.* 10(1): 20-28, 2012
22. Diez, J.M., C.M. D'Antonio, J.S. Dukes, E.D. Grosholz, J.D. Olden, C.J.B. Sorte, D.M. Blumenthal, **B.A. Bradley**, R. Early, I. Ibáñez, S. Jones, J.J. Lawler, and L.P. Miller, "*Will extreme climatic events facilitate biological invasions?*", *Frontiers in Ecology and the Environ.* 10(5): 249-257, 2012

21. **Bradley, B.A.** and **D.C. Marvin***, “*Using Expert Knowledge to Satisfy Data Needs: Mapping Invasive Plant Distributions in the Western U.S.*”, *Western North American Naturalist* 71(3): 302-315, 2011
20. **Bradley, B.A.** and M.T. O’Sullivan, “*Assessing the short-term impacts of changing grazing regime at the landscape scale with remote sensing*”, *International Journal of Remote Sensing* 32(20): 5797-5813, 2011
19. Orenstein, D.E., **B.A. Bradley**, J. Albert, J.F. Mustard, and S.P. Hamburg, “*How much is built? Quantifying and interpreting patterns of built space from different data sources*”, *International Journal of Remote Sensing*, 32(9), 2621-2644, 2011
18. **Bradley, B.A.**, D.M. Blumenthal, D.S. Wilcove, and L.H. Ziska, “*Predicting plant invasions in an era of global change*”, *Trends in Ecology & Evolution*, 25(5), 310-318, 2010
17. **Bradley, B.A.**, M. Oppenheimer, and D.S. Wilcove, “*Climate Change Increases Risk of Plant Invasion in the Eastern United States*”, *Biological Invasions*, 12(6), 1855-1872, 2010
16. **Bradley, B.A.**, “*Assessing ecosystem threats from global and regional change: Hierarchical modeling of risk to sagebrush systems from climate change and invasive species in Nevada, USA*”, *Ecography*, 33, 198-208, 2010
15. Turner, W.R., **B.A. Bradley**, L.D. Estes, D.G. Hole, M. Oppenheimer, and D.S. Wilcove, “*Climate change: helping nature survive the human response*”, *Conservation Letters*, 3, 304-312, 2010
14. **Bradley, B.A.** and D.S. Wilcove, “*When invasive plants disappear: transformative restoration possibilities in the western United States resulting from climate change*”, *Restoration Ecology*, 17(5), 715-721, 2009
13. **Bradley, B.A.**, “*Accuracy assessment of mixed land cover using stratified random sampling*”, *International Journal of Remote Sensing*, 30(13), 3515-3529, 2009
12. **Bradley, B.A.**, M. Oppenheimer, and D.S. Wilcove, “*Climate Change and Plant Invasion: Restoration Opportunities Ahead?*”, *Global Change Biology*, 15, 1511-1521, 2009
11. **Bradley, B.A.**, “*Regional Analysis of the Impacts of Climate Change on Cheatgrass Invasion Shows Potential Risk and Opportunity*”, *Global Change Biology*, 15, 196-208, 2009
10. **Marvin, D.C.***, **B.A. Bradley**, and D.S. Wilcove, “*A Novel, Web-based, Ecosystem Mapping Tool using Expert Opinion*”, *Natural Areas Journal*, 29(3), 281-292, 2009
9. **Bradley, B.A.** and E. Fleishman, “*Commentary: Can Remote Sensing of Land Cover Improve Species Distribution Modelling?*”, *Journal of Biogeography*, 35, 1158-1159, 2008
8. **Bradley, B.A.** and E. Fleishman, “*Relationships Between Expanding Pinyon-Juniper Cover and Topography in the Central Great Basin*”, *Journal of Biogeography*, 35, 951-964, 2008
7. **Bradley, B.A.** and J.F. Mustard, “*Comparison of Phenology Trends by Land Cover Class: A Case Study in the Great Basin, U.S.A.*”, *Global Change Biology*, 14(2), 334-346, 2008
6. **Bradley, B.A.**, R.W. Jacob, J.F. Hermance, and J.F. Mustard, “*A curve-fitting technique to derive inter-annual phenologies from time series of noisy satellite data*”, *Remote Sensing of Environment*, 106, 137-145, 2007
5. Hermance, J.F., R.W. Jacob, **B.A. Bradley**, and J.F. Mustard, “*Extracting Phenological Signals from Multi-Year AVHRR NDVI Time Series: Framework for Applying High-Order Annual Splines with Roughness Damping*”, *IEEE Trans. in Geoscience and Remote Sensing*, 45, 3264-3276, 2007
4. **Bradley, B.A.**, R.A. Houghton, J.F. Mustard, and S.P. Hamburg, “*Invasive Grass Reduces Carbon Stocks in Shrublands of the Western U.S.*”, *Global Change Biology*, 12(10), 1815-1822, 2006
3. **Bradley, B.A.**, and J.F. Mustard, “*Characterizing the Landscape Dynamics of an Invasive Plant and Risk of Invasion Using Remote Sensing*”, *Ecological Applications*, 16(3), 1132-1147, 2006
2. **Bradley, B.A.**, and J.F. Mustard, “*Identifying Land Cover Variability Distinct from Land Cover Change: Cheatgrass in the Great Basin*”, *Remote Sensing of Environment*, 94(2), 204-213, 2005

1. **Bradley, B.A.**, S.E.H. Sakimoto, H. Frey, and J.R. Zimbelman, “*Medusae Fossae Formation: New Perspectives from Mars Global Surveyor*”, *Journal of Geophysical Research*, 107(E8), 5058, 2002

MANUSCRIPTS IN REVIEW

- Beaury, E.M.*, M. Patrick†, and **B.A. Bradley**, “*Invaders for sale: the ongoing spread of invasive species by the plant trade industry*”, In Review
- Fusco, E.J.#, J.K. Balch, A. Mahood, R.C. Nagy, A.D. Syphard, and **B.A. Bradley**, “*The human-grass-fire cycle: How the co-occurrence of people and invasive grass can drive wildland fire regimes*”, In Review
- Laginhas, B.B.* and **B.A. Bradley**, “*We don’t know what we’re missing: evidence of a vastly under-identified invasive plant pool*”, In Review
- Laginhas, B.B.* and **B.A. Bradley**, “*Global Plant Invaders (version 1.0): a compendium of invasive plant species documented by the peer-reviewed literature*”, In Review
- Mahood, A., E. Fleishman, J.K. Balch, F. Fogarty, N. Horning, M. Leu, M. Zillig, and **B.A. Bradley**, “*Cover-based allometric estimate of aboveground biomass of a non-native, invasive annual grass (*Bromus tectorum* L.) in the Great Basin, USA*”, In Review
- Morelli, T.L., C.J. Brown-Lima, J.M. Allen, E.M. Beaury*, E.J. Fusco#, A. Barker-Plotkin, B.B. Laginhas*, B. Quirion, B. Griffin, B. McLaughlin, L. Munro*, N. Olmstead, J. Richburg, and **B.A. Bradley**, “*Translational Invasion Ecology: Bridging research and practice to address one of the greatest threats to biodiversity*”, In Review
- Munro, L.*, B. Griffin, B. Laginhas*, and **B.A. Bradley**, “*Does invasion science encompass the invaded range? A comparison of the geographies of invasion science versus management in the U.S.*”, In Review
- O’Neill, M.W., J.M. Allen, and **B.A. Bradley**, “*A new view of geographic invasion risk based on potential for high abundance*”, In Review
- Vilà, M., E. Beaury*, D. Blumenthal, **B.A. Bradley**, R. Early, B.B. Laginhas*, A. Trillo, J.S. Dukes, C.J.B. Sorte, and I. Ibáñez, “*Understanding the combined impacts of weeds and climate change on crops*”, In Review

TRANSLATIONAL ECOLOGY MATERIALS AND TECHNICAL REPORTS

- B.B. Laginhas*, T.L. Morelli, A. Barker-Plotkin*, E.M. Beaury*, E. Cousins, S. Joubran, M. Nelson, S. Talbot, and **B.A. Bradley**, “*Nuisance Neonatives: Guidelines for assessing range-shifting species*” Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/8n20-kk32>, 2020
- Bradley, B.A.**, J.M. Allen, B. Griffin, B.B. Laginhas*, and M. Rockwell-Postel†, “*Prioritizing range-shifting invasive plants. High-impact species coming to the Northeast*” Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/vgnn-yg14>, 2020
- Bradley, B.A.**, A. Bayer, B. Griffin, S. Joubran, B.B. Laginhas*, L. Munro*, S. Talbot, J.M. Allen, A. Barker-Plotkin*, E.M. Beaury*, C. Brown-Lima, E.J. Fusco#, H. Mount, B. Servais, and T.L. Morelli, “*Gardening with climate-smart native plants in the Northeast*” Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/mvej-dr35>, 2020
- Beaury, E.M.*, A. Barker-Plotkin*, C. Brown-Lima, E.J. Fusco#, B. Griffin*, S. Joubran, B.B. Laginhas*, M.G. MacLean, and L. Munro*, M. Nelson, S. Talbot, and **B.A. Bradley**, “*Taking Action: Managing invasive species in the context of climate change*” Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/k8q5-4f71>, 2020
- Bradley, B.A.**, E.M. Beaury*, E.J. Fusco#, B. Griffin*, B.B. Laginhas*, B. C. McLaughlin, T.L. Morelli, and L. Munro*, “*Double trouble: Understanding risks from invasive species + climate change*”,

Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/mrf6-p616>, 2019

Fusco, E.J.*, J.M. Allen, E.M. Beaury*, M.R. Jackson, B.B. Laginhas*, T.L. Morelli, and B.A. Bradley, “*Why Native? Benefits of planting native species in a changing climate*”, Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/2248-hc42>, 2018

Bradley, B.A., “*Proactive weeding of our gardens of the future*”, WildOnes Journal, 31(4), 9-11, 2018

Bradley, B.A., E. Beaury*, E.J. Fusco*, B. Laginhas*, T.L. Morelli, and V. Pasquarella#, “*Preparing for sleeper species: Climate change could awaken some naturalized species*”, Northeast RISCC Management Challenge, University of Massachusetts, Amherst, <https://doi.org/10.7275/R5F18WXT>, 2018

McElhinney, A., B. Bradley, and R.W. Harper, “*Can community forests in the Northeast U.S. keep pace with a changing climate?*”, The Citizen Forester 216:1-3, 2018

Bradley, B.A. and C.A. Curtis*, “*Distribution and dynamics of non-native invasive plants*”, in Fleishman, E (ed.), Natural Resource Condition Assessments for Death Valley National Park, Grand Canyon - Parashant National Monument, Joshua Tree National Park, Manzanar National Historical Site, and Mojave National Preserve. National Park Service, Dept. of the Interior, Washington, D.C. 2016

Jackson, S., B. Bradley and T. Cairns, “*Natural resources assessment of the Tennessee gas pipeline company’s northeast energy direct project: Mainline pipeline route in Massachusetts*”, Report for UMass’ Center for Agriculture, Food and the Environment, April 2015

Bradley, B.A. and R.W. Harper, “*Can Community Forests in the Northeast U.S. Keep Pace with the Changing Climate?*”, Arborist News 23(3):44-47, 2014

Balch, J.K., M.K. Carroll, and B.A. Bradley, “*Invasive grass-fire cycle in the U.S. Great Basin*”, Teaching Issues and Experiments in Ecology (TIEE) 8, 2012

Bradley, B. and C.M. Schweik, “*Introduction to Geographic Science Using ArcGIS v10*”, UMass Scholarworks (http://works.bepress.com/charles_schweik/21/) and lulu.com, 2012

Bradley, B., “*Predicting invasion risks and opportunities with climate change: Insights from modeling*”, pages 117-124 in E. Rindos, ed., *Plant Invasions: Policies, Politics, and Practices*, Proceedings of the 2010 Weeds Across Borders Conference, National Conservation Training Center, Shepherdstown, WV. Montana State University, Center for Invasive Plant Management, 2010

GRANTS & CONTRACTS

Funding amounts to Bradley’s lab at UMass is noted

- | | |
|-----------|---|
| 2021-2023 | “ <i>Identifying vulnerable ecosystems and supporting climate-smart strategies to address invasive species under climate change</i> ” U.S. Geological Survey, PIs: B. Bradley and C. Brown-Lima (\$496,914) |
| 2019-2024 | “ <i>University of Massachusetts Consortium to Host Cycle II of the Northeast Climate Adaption Science Center</i> ”, U.S. Geological Survey, PI: R. Palmer, co-PIs: B. Bradley, J. Woodruff (\$4,500,000 shared across multiple institutions) |
| 2019-2022 | “ <i>Belmont Forum Collaborative Research: Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services (InvasiBES)</i> ”, National Science Foundation, Belmont Forum, PI: M. Vila, co-PI: B. Bradley (\$90,000) |
| 2019-2021 | “ <i>The other side of invasibility: vulnerability of recipient ecosystems</i> ”, National Science Foundation, National Center for Ecological Analysis & Synthesis (NCEAS) working group. PIs: B. Bradley and I. Ibáñez (\$106,000) |
| 2018-2019 | “ <i>Prioritizing range-shifting invasive plants for monitoring and management</i> ”, Northeast Climate Adaptation Science Center, PI: B. Bradley (\$40,000) |

- 2018-2020 “Prioritizing the impacts of range-shifting invasive plants for prevention, monitoring and management”, Northeast IPM Center Partnership Grant, PI: **B. Bradley** (\$40,000)
- 2017-2020 “Quantifying the invasive grass-fire cycle and implications for carbon storage in the continental US”, National Science Foundation, Geography & Spatial Sciences, PI: **B. Bradley**, co-PIs: J. Balch, R.C. Nagy (\$389,975)
- 2016-2021 “Global Invasive Plants: Using spatial patterns to understand invasion risk to the Northeast”, U.S. Department of Agriculture (McIntire Stennis), PI: **B. Bradley**, (\$31,000)
- 2016-2019 “Quantifying carbon fluxes in the Great Basin due to disturbance and land cover change”, USDA Forest Service, Joint Venture Agreement, PI: B. Rau, co-PI: **B. Bradley** (\$60,000)
- 2016-2018 “The biogeography of invasive plants in the continental US”, National Science Foundation, Geography & Spatial Sciences, PI: **B. Bradley**, co-PI: J. Allen (\$157,400)
- 2015-2018 “Relations among cheatgrass-driven fire regimes, climate change, and sensitive-status bird species across the Great Basin”, Joint Fire Sciences Program (JFSP), PI: E. Fleishman, co-PIs: **B. Bradley**, T. Hopkins, N. Horning, M. Leu, R. MacNally, M. Pellant (\$76,367 to UMass)
- 2015-2018 “Using Time Series of Remotely Sensed Imagery to Understand Invasive Pine Dispersal”, NASA Earth & Space Science Fellowship (NESSF), Graduate Student: C. Curtis, PI: **B. Bradley**, (\$104,400)
- 2015-2017 “Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models”, North Central Climate Science Center, PI: P. Adler, co-PIs: C. Aldridge, **B. Bradley**, B. Poulter (\$200,000 to Montana)
- 2015 “Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models”, Great Basin Landscape Conservation Cooperative, PI: P. Adler, co-PIs: C. Aldridge, **B. Bradley**, B. Poulter (\$85,000 to USU)
- 2015 “Will Impacts of Global Change be Greater than the Sum of its Parts?”, Borchard Foundation Colloquium, PI: C. Sorte, co-PIs: A. Bates, **B. Bradley**, R. Early (\$35,000 for working group meeting)
- 2014-2018 “Understanding Climate and Land Use Drivers of invasive-Grass Fueled Fires Across the Western U.S.”, NASA Terrestrial Ecology Program, PI: J. Balch, co-PIs: **B. Bradley**, J. Abatzoglou (\$204,448 to UMass)
- 2011-2016 “Modeling risk of plant invasions in Massachusetts and surrounding states under current and future climate conditions”, U.S. Department of Agriculture (Hatch), PI: **B. Bradley**, (\$20,425)
- 2011-2016 “Modeling landscape-scale invasion risk in western Massachusetts forests using remote sensing”, U.S. Department of Agriculture (McIntire Stennis), PI: **B. Bradley**, (\$65,600)
- 2012-2014 “Biogeography and Remote Sensing of Non-Native Plant Invasions in the Mojave Network Parks”, National Park Service, Natural Resource Condition Assessment, PI: E. Fleishman, subcontract to **B. Bradley** (\$29,696)
- 2011-2012 “Integrating ecological forecasting methods to improve prioritization of natural resource management: An invasive species example”, USGS Powell Center, PIs: **B. Bradley**, J. Morisette (\$59,870 for working group meetings)
- 2010-2014 “Integrated spatial models of non-native plant invasion, fire risk, and wildlife habitat to support conservation of military lands in the arid Southwest”, U.S. Department of Defense, Strategic Environmental Research and Development Program, PI: B. Dickson, co-PIs: **B. Bradley**, S. Sesnie, T. Sisk, (\$322,992 to UMass)
- 2007-2008 “Maintaining connectivity in the Great Basin in the face of climate and land cover change”, Wilburforce Foundation, PI: **B. Bradley** (\$15,000)

2006-2007 *“Measuring landscape response to changes in grazing regime using remote sensing”*,
Lava Lake Foundation, PI: **B. Bradley** (\$5000)

FELLOWSHIPS AND AWARDS

Scaling up working group participant (Ecological Soc. America)	2013
Climate change & invasives working group participant (NCEAS)	2011-2012
Bromus working group participant (USDA AFRI)	2010-2012
DISCCRS Scholar (Early career climate change researcher)	2007
Brown University Dissertation Writing Fellowship	2006
Brown University Geology Club Award for Service to the Department	2006
Dept. of Defense: National Defense Science and Engineering Graduate Fellowship	2001-2004
D.B McIntyre-H. Stanton Hill Award for an outstanding student in geology	2000
Isabel F. Smith Award for service in geological sciences	1999
National Merit Scholar	1996-2000

SELECTED MEDIA COVERAGE OF MY RESEARCH

2019

“Invasive grasses may worsen wildfires, study suggests” [NY Times](#)
“Alien grasses are causing small, more frequent wildfires” [Associated Press](#)

2018

“Alien grass is making California wildfires three times as frequent”, [New Scientist](#)

2017

“People start 84% of wildfires”, [USA Today](#)
“People cause more fire”, [NPR](#)

2016

“Most nations lack ability to deal with invasive species”, [BBC News](#)

2015

“Researcher finds way to fight cheatgrass”, [NYTimes](#)
“Planting a seed”, [Hampshire Gazette](#)
“Alien plants widespread and poised to invade”, [NEPR](#)
“Invasive plants taking over the US”, [Science News](#)

2012

“In Arid West, Cheatgrass Turns Fires Into Infernos”, [NPR](#)

2012

“Research team issues warning about invasive plants”, [KCLU](#)

2011

“Will climate change hasten the spread of invasive plants?”, [Grist](#)

2010

“Kudzu”, [NEPR](#)

2009

“Study: Climate change may reshuffle western weeds”, [Associated Press](#)
“A web-based tool for mapping invasive species using local expertise”, [Conservation Maven](#)

INVITED SEMINARS

40. Berkshire Botanical Garden annual meeting, Nov 2019
39. Ecological Landscape Alliance, webinar, Oct, 2019
38. Maine Terrestrial Invasive Plant Scientific Advisory Committee, Apr, 2019
37. New Hampshire Invasive Species Council, Apr, 2019

36. Connecticut Invasive Plant Working Group, Apr, 2019
35. New York State Partnerships for Regional Invasive Species Management webinar, Feb 2019
34. Massachusetts Invasive Plant Advisory Group, Dec, 2018
33. Florida Exotic Plant Pest Council Annual Meeting, Apr, 2018
32. National Invasive Species Awareness Week Webinar, Feb, 2018
31. Northeast Climate Science Center Webinar, Nov, 2017
30. Environmental Science & Policy, University of California, Davis, Oct, 2017
29. Soil & Crop Sciences, Cornell University, Sep, 2017
28. Statistics in Ecology, Environment and Conservation, University of Cape Town, Dec, 2016
27. Rubenstein School for the Environment, University of Vermont, Nov, 2015
26. Woodrow Wilson School, Princeton University, Apr, 2015
25. The Ecosystems Center, Marine Biological Lab, Mar, 2015
24. Harvard Forest, Feb, 2015
23. Stockbridge School for Agriculture, UMass, Amherst, Oct, 2014
22. Department of Biology, Union College, Oct, 2014
21. Department of Biology, Smith College, Jan, 2014
20. Massachusetts Tree Wardens & Foresters Annual Meeting, Jan, 2014
19. Department of Ecology & Evolutionary Biology, University of Colorado, Boulder, Oct, 2013
18. School of Natural Resources, University of Nebraska, Lincoln, Oct, 2013
17. Massachusetts Nursery & Landscape Association, Jul, 2013
16. North American Invasive Plant Short Course webinar, Apr, 2013
15. Cary Institute for Ecosystem Science, Feb, 2013
14. Department of Biology, College of William & Mary, Nov, 2012
13. NY State Monthly Invasives Webinar, Oct, 2012
12. Department of Geography, Clark University, Sept, 2012
11. Department of Biology, UMass, Boston, Apr, 2012
10. Department of Geography, Rutgers, Feb, 2012
9. U.S. Department of Agriculture, APHIS Center for Integrated Pest Management, Jan, 2012
8. Program in Plant Biology & Conservation, Chicago Botanic Garden, Jan, 2012
7. Department of Botany & Zoology, Stellenbosch University, Aug, 2011
6. Faculty colloquium on the impacts of climate change, UMass, Amherst, Nov, 2010
5. Department of Organismic and Evolutionary Biology, UMass, Amherst, Apr, 2010
4. Department of Ecology, Evolution and Conservation Biology, University of Nevada, Reno, Oct, 2009
3. Invasive Species Advisory Council bi-annual meeting, Tucson, May, 2009
2. Biospheric Sciences Laboratory, NASA/Goddard Space Flight Center, Greenbelt, MD, Mar, 2008
1. Western Weed Coordinating Committee, Las Vegas, Dec, 2008

TEACHING EXPERIENCE

University of Massachusetts, Amherst

- | | |
|--|--------------------------|
| <i>Introduction to GIS</i> (NRC585) | <i>Spr. 2011-2020</i> |
| <ul style="list-style-type: none"> • Teaches GIS and spatial analysis using ArcGIS software • Students: 90 (4 credits) | |
| <i>Invasion Ecology</i> (NRC590IE) | <i>Fall (even years)</i> |
| <ul style="list-style-type: none"> • Investigates the introduction, ecology and impacts of invasive species • Students: 30 (3 credits) | |
| <i>Cartography</i> (ECO697CA) | <i>Fall 2018-2019</i> |
| <ul style="list-style-type: none"> • Seminar discussion of map production • Students: 10 (2 credits) | |
| <i>Global Change Ecology</i> (NRC547) | <i>2010-2017</i> |

- Explores anthropogenic impacts on ecosystems
- Students: 30 (3 credits)

Ecosystems of the Anthropocene 2015-2016

- Seminar discussion for Commonwealth Honors College
- Students: 15 (1 credit)

Advanced GIS (NRC597AM) Fall 2012

- Introduces advanced topics in GIS analysis and data processing
- Students: 7 (3 credits)

Readings in GIS (NRC597GA) Fall 2010

- Surveys literature on advanced applications of GIS
- Students: 4 (2 credits)

LAB MEMBERS (CURRENT AND PAST)

Graduate Student Advisees

Audrey Barker-Plotkin	PhD student, ECO	2019-present
Evelyn Beaury	PhD student, OEB	2017-present
Ayodele O'Uhuru	MSc student, ECO	2020-present
Will Pfadenhauer	PhD student, OEB	2020-present
Tyler Cross	MSc, ECO	2014-2016
Caroline Curtis	PhD, OEB	2012-2018
Emily Fusco	PhD, OEB	2013-2019
Brittany Laginhas	MSc, GEO	2016-2020
Lara Munro	MSc, GEO	2019-2020
Renee Vieira	MSc, ECO	2011-2013

Postdoctoral Research Associates

Dr. Bianca Lopez	Invasive species biogeography	2020-present
Dr. Emily Fusco	Carbon consequences of grass-fire	2019-present
Dr. Valerie Pasquarella	Remote sensing of invasions	2016-2018
Dr. Jenica Allen	Invasion hotspot modeling	2014-2015

Research Technicians

Will Coville	Impacts of invasive plants	2020-present
Bridget Griffin	Impacts of invasive plants	2019-2020
Tyler Cross	Northeast invasive plant collection	2013-2014
Adrienne Keller	US invasive plant collection	2012-2013
Kathleen Theoharides	Cheatgrass data collection	2011-2012

*Undergraduate Student Research Advisees (34 total; *senior thesis; †summer research experience)*

Sarah Ayton*† (2014-2015), Kayla Baker† (2013-2014), Amanda Bertino (2014), Tierney Bocsi† (2014-2015), Brian Breen (2014), Vincent Chan† (2017-2018), Kristyn Chin (2017-2018), Charles Cini (2010), Alex Cook (2013), Will Coville (2019), Erin Duffey (2014), Devon Dunajski† (2015-2016), Cecilia Frisardi (2013), Sara Gehrdes* (2009-2011), Avery Guan (2015-2016), My Huynh† (2017), Manan Jain (2013), Evan Johnson† (2017-2018), Rebecca Johnson (2015), Beth Kazimer† (2016), Benjamin Kessler (2018-2019), Nora Lehan (2012), Elizabeth Levson (2015), Ashley McElhinney (2016), Julia Murphy (2012), Nicole Pawell* (2015-2017), Madeline Patrick*† (2017-2019), Mei Rockwell-Postal*† (2017-2019), Raisa Rodriguez (2011), Brigid Ryan (2017), Sarah Ryan (2015), Amira Soltani (2014-2015), Shawn Small† (2018-2019), Lukas Thorburn (2012)

UNIVERSITY SERVICE

Environmental Conservation Personnel Committee	2017-2020
Search Committee, GIST lecturer	2019
Environmental Conservation Personnel Committee, Chair	2018-2019
Search Committee, GIS lecturer, Co-chair	2015-2016
Graduate Operations Committee, OEB	2015-2020
Department Head Evaluation Committee, Chair	2015, 2018
ECO First-year Graduate Student Mentoring Program, Chair	2013-2019
Search Committee Member, Stockbridge Soils & Global Change Faculty	2013-2014
Admissions Committee Member, OEB graduate students	2012-2013
Undergraduate Concentration Coordinator, Env. Conservation	2011-2019
Search Committee, OEB Darwin Postdoctoral Fellow	2011-2012
Search Committee, ECO Environmental Policy Faculty	2010-2011

PROFESSIONAL SERVICE

Founding member:

Northeast Regional Invasive Species & Climate Change (RISCC) Management network.

- Increase interactions between scientists and managers through annual meetings and webinars
- Synthesizes research for network of 350+ managers through biweekly research snapshots and ‘management challenge’ summaries
- Provides actionable research results to practitioners

Associate Editor:

Ecography (2014 – present), IF: 4.5

Diversity and Distributions (2010 – 2016), IF:3.7

Proposal reviewer:

NSF (*ad hoc and panelist*), NASA (*ad hoc and panelist*), Department of Defense (*ad hoc*), USDA (*panelist*)

Journal reviewer:

Ambio, Biological Conservation, Biological Invasions, Conservation Biology, Diversity and Distributions, Ecography, Ecological Modelling, Ecology, Ecology Letters, Ecosystems, Frontiers in Ecology & the Environment, Global Change Biology, Global Ecology and Biogeography, International Journal of Remote Sensing, Invasive Plant Science & Management, Journal of Applied Ecology, Journal of Biogeography, Journal of Environmental Management, Landscape Ecology, NeoBiota, New Phytologist, Proceedings of the National Academy of Sciences, Remote Sensing of Environment, Science, Weed Science, Western North American Naturalist

CONFERENCE PRESENTATIONS (LAST 5 YEARS)

Advisees are underlined

Beaury, E.M., E.J. Fusco, M.R. Jackson, B.B. Laginhas, T. Morelli, J.M. Allen, V. Pasquarella, **B.A.**

Bradley “Incorporating climate change into invasive species management - insights from managers”, North American Invasive Species Management Association Annual Meeting, Sept 2019

Bradley, B.A. “Implications of climate change for invasive species”, North American Invasive Species Management Association Annual Meeting, Sept 2019

Brown-Lima, C., T.L. Morelli, J. Allen, **B.A. Bradley** “Bridging the research-management gap through the NE Regional Invasive Species and Climate Change (RISCC) Management Network”, North American Invasive Species Management Association Annual Meeting, Sept 2019

- Laginhas, B.B., E.M. Beaury, B.A. Bradley “Are invasive species managers thinking proactively to address climate change impacts?”, North American Invasive Species Management Association Annual Meeting, Sept 2019
- Nagy, R.C., E. Fusco, B. Bradley, A. Mahood, J. Balch, “Combined effects of cheatgrass and fire on U.S. ecosystem carbon storage: a meta-analysis”, Ecological Society of America, August 2019
- Morelli, T.L., P. Wallingford, J. Allen, E. Beaury, D. Blumenthal, B. Bradley, J. Dukes, R. Early, E. Fusco, D. Goldberg, I. Ibanez, B. Laginhas, M. Vila, C. Sorte, “Assessing impacts of climate-driven range shifts through the lens of invasion biology”, Species on the Move, South Africa, July 2019
- Fusco, E.J., J. Allen, E. Beaury, B. Laginhas, T.L. Morelli, B.A Bradley “Translating Science into Practice and Practice into Science: Northeast RISSC Management Network.” Northeast Natural History Conference. April 2019. Springfield MA.
- Beaury, E.M., Fusco, E.J., Jackson, M.R., Laginhas, B.B., Morelli, T.L., Allen, J.M., Pasquarella, V.J., & B.A. Bradley. Incorporating climate change into invasive species management: insights from managers. 75th Northeast Association of Fish and Wildlife Agencies Conference, April 2019.
- Rockwell-Postel, M., B. Laginhas, and B. Bradley, “Prioritizing range-shifting invasive plants: Assessing the impacts of invasive plant species using EICAT” CAFE summer scholars poster conference, UMass, Amherst, Sept, 2018
- Fusco, E.J., J.K. Balch, R.C. Nagy, and B.A. Bradley. “*Invasive grasses linked to increased fire occurrence and size across U.S. ecosystems*”, Ecological Society of America, New Orleans, Aug 2018.
- Laginhas, B., Pawell, N., and B.A. Bradley “*Quantifying spatial and taxonomic biases in invasive species research.*” Ecological Society of America, New Orleans, Aug 2018.
- O’Neill, M.W., B.A. Bradley, and J.M. Allen, “*Spatial patters of terrestrial invasive plant abundance in the contiguous United States*”. Ecological Society of America, New Orleans, Aug 2018
- Bradley, B.A.,** “*Using impact assessments to prioritize range shifting invasive plants*”, 2nd Annual RISSC Symposium, Amherst, MA, July 12, 2018
- Bradley, B.A.** “*Identifying future invaders: predicting range shifts with climate change*” 9th International IPM Symposium, Baltimore, March 2018
- Laginhas, B., Rockwell-Postel, M., and B.A. Bradley “Prioritizing range-shifting invasive plants: Assessing the impacts of invasive plant species using EICAT”. Massachusetts Association of Conservation Commissioners Annual Conference, Worcester, MA, March 2018
- Curtis, CA, Pasquarella, VJ, Bradley, BA. “Time series analysis of land cover change associated with invasive pines in South America”. NE Arc Users Conference, Newport, RI, 2017
- Fusco, E.J., J. Balch, J. Finn, R. Nagy, J. Abatzoglou, S. Dadashi, B. Bradley. “Modeling detection biases in remotely sensed and agency reported fires in the US 2003-2013.” Initiative on Extreme Weather and Climate- Fire Prediction Across Scales, October 2017
- Huynh, M., B. Kane, T. Bocsi, and B. Bradley, “How diverse are urban trees on the UMass campus? Creating a database of street tree traits to increase diversity and reduce invasions” CAFE summer scholars poster conference, UMass, Amherst, Sept, 2017
- Allen, J.M., J. Dukes, J. Lenoir, M. Vilà, D.M. Blumenthal, B. Bradley, C. Sorte, A. Maceda-Veiga, G. Bernatchez, J. Montgomery, M. O’Neill, C. Swope, “Meta-analysis suggests synergistic impacts of global change and invasive species”, Ecological Society of America Annual Meeting, Portland, August 2017
- Balch, J.K., B.A. Bradley, J. Abatzoglou, R.C. Nagy, E. Fusco, A. Mahood, “Human-started wildfires expand the fire niche across the U.S.” Ecological Society of America Annual Meeting, Portland, August 2017

- Bradley, B.A.**, A.E. Bates, G. Bernatchez, J. Diez, B. Laginhas, C. Sorte, R. Whitlock, J.M. Allen, R. Early, J. Lenoir, and M. Vila, “*How does invasive species abundance relate to ecological impact?*”, Ecological Society of America Annual Meeting, Portland, August 2017
- R. Early, **B.A. Bradley**, J.S. Dukes, J.J. Lawler, J.D. Olden, D.M. Blumenthal, P. Gonzalez, E.D. Grosholz, I. Ibáñez, L.P. Miller, C.J. B. Sorte, A.J. Tatem, “*Global threats from invasive alien species in the twenty-first century and national response capacities*”, Ecological Society of America Annual Meeting, Portland, August 2017
- Nagy, R.C., J. Abatzoglou, J. Balch, **B. Bradley**, E. Fusco, “Human influence on large fires across ecoregions of the U.S.” Ecological Society of America Annual Meeting, Portland, August 2017
- Mietkiewicz, N., J.K. Balch, L. St. Dennis, T. Schoennagel, **B. Bradley** “Human-ignited fires at the wildland-urban interface: consequences and costs”, Ecological Society of America Annual Meeting, Portland, August 2017
- Curtis, C.A., and **Bradley, B.A.**, “*Using time series of remotely sensed images to quantify pine invasion*”, American Association of Geographers Annual Meeting, Boston, April 2017
- Fusco, E., S. Dadashi, J. Balch, J. Finn, R. Nagy, J. Abatzoglou, **B. Bradley**, “*Modeling detection biases in remotely sensed and agency reported fires in the US 2003-2013*”, American Association of Geographers Annual Meeting, Boston, April 2017
- Laginhas, B., N. Pawell, **B. Bradley**, “*Quantifying spatial and taxonomic biases in invasion ecology research*”, American Association of Geographers Annual Meeting, Boston, April 2017
- Fusco, E., **B. Bradley**, R. Nagy, J. Balch, “*Invasive grasses increase fire frequency and size across a range of US ecosystems*”, International Biogeography Society, Tucson, January 2017
- Curtis, C.A. and **Bradley, B.A.** Using time series of remotely sensed imagery to understand invasive pine dispersal. NASA Biodiversity and Ecological Forecasting Team Meeting, Silver Spring, MD, May 2016
- Chambers, J.C., M.J. Germino, **B.A. Bradley**, J. Belnap, C.S. Brown, C.A. Curtis, E.W. Schupp and S.B. St Clair. “Effects of climate, resource availability, and plant community interactions on resistance to annual brome-grass invasion”, Ecological Society of America, Fort Lauderdale, Aug 2016
- Curtis, C.A. and **B.A. Bradley**, “Continuous cover projections of Big Sagebrush (*Artemisia tridentata*) throughout the Intermountain West USA informs conservation strategies”, Ecological Society of America, Fort Lauderdale, Aug 2016
- Rau, B.M., **B.A. Bradley**, J. McIver, D.A. Pyke, B.A. Roundy, E.W. Schupp and K.R. Young. “Consequences of annual brome invasion on carbon fluxes and storage”, Ecological Society of America, Fort Lauderdale, Aug 2016
- Renwick, K.M., A.R. Kleinhesselink, D.R. Schlaepfer, C.A. Curtis, **B.A. Bradley**, C.L. Aldridge, B. Poulter and P.B. Adler. “Estimating climate sensitivity of semi-arid vegetation: What can we learn by comparing forecasts derived from different modeling techniques?”, Ecological Society of America, Fort Lauderdale, Aug 2016
- Bradley, B.**, R. Early and C.J.B. Sorte, “*Space to invade? Comparative range infilling and potential range of invasive and native plants*”, Ecology & Mgmt of Alien Plant Invasions, Waikoloa Sep 2015
- Allen, J. and **B. Bradley**, “*Out of the weeds? Reduced plant invasion risk with climate change*”, Ecological Society of America, Baltimore Aug 2015
- Bocsi, T., J. Allen, J. Bellemare, J. Kartesz, M. Nishino and **B. Bradley**, “*Species distributions do not reflect climatic tolerance*”, Ecological Society of America, Baltimore Aug 2015
- Curtis, C. and **B. Bradley**, “*How well do distribution data reflect physiological tolerance limits?*”, Ecological Society of America, Baltimore Aug 2015
- Fusco, E., J. Abatzoglou, J. Balch and **B. Bradley**, “*Quantifying human influence on fire ignitions across the western U.S.*”, NASA Carbon Cycle & Ecosystems Joint Science Workshop, Maryland Apr 2015

Balch, J., **B. Bradley**, C. D'Antonio and J. Gomez-Dans, "*Introduced annual grass increases regional fire activity across the arid western USA (1980–2009)*", NASA Carbon Cycle & Ecosystems Joint Science Workshop, Maryland Apr 2015

Abatzoglou, J., **B. Bradley**, E. Fusco* and J. Balch, "*Lightning Ignited Fires over the Western United States*", NASA Carbon Cycle & Ecosystems Joint Science Workshop, Maryland Apr 2015

Allen, J., A. Keller and **B. Bradley**, "*Plant invasion hotspots in the contiguous United States*", International Biogeography Society, Bayreuth Germany January 2015

Bradley, B.A. "*Invaders from space: Remote sensing of invasive plants*", International Biogeography Society, Plenary Symposium: Tracking changes from space, Bayreuth Germany January 2015

Curtis, C. and **B. Bradley** "*Using time series of remotely sensed imagery to understand the dispersal dynamics of invasive species*", International Biogeography Society, Bayreuth Germany January 2015