

BETHANY A. BRADLEY

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Degrees:

PhD Geological Sciences	Brown University	2006
MSc Geological Sciences	Brown University	2003
BA Geology	Pomona College	2000

UMass Employment:

2016 – present	Associate Professor, Department of Environmental Conservation
2010 – 2016	Assistant Professor, Department of Environmental Conservation

RESEARCH

Areas of specialization: Biogeography and spatial ecology

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.

Current student research projects:

Evelyn Beaury	<i>Biotic resistance to invasion</i>	PhD, Organismic & Evol. Biol.
Emily Fusco	<i>Fire ecology</i>	PhD, Organismic & Evol. Biol.
Brittany Laginhas	<i>Invasive plant listing biases</i>	PhD, Organismic & Evol. Biol.

Grants received (since 2013):

2018-2020	Bradley (PI)	Northeast IPM Center (USDA)	\$40,000
2018-2019	Bradley (PI)	Northeast CASC (USGS)	\$40,000
2017-2020	Bradley (PI)	National Science Foundation	\$389,975
2016-2021	Bradley (PI)	USDA McIntire-Stennis	\$13,000
2016-2019	Bradley (subcontract)	U.S. Forest Service Joint Venture	\$60,000 (to UMass)
2016-2018	Bradley (PI)	National Science Foundation	\$157,400
2015-2018	Bradley (co-PI w/ E. Fleishman)	Joint Fire Sciences Program	\$76,376 (to UMass)
2015-2018	Bradley (PI)	NASA, NESSF grad fellow (C. Curtis)	\$104,400
2014-2018	Bradley (co-PI w/J. Balch)	NASA, Terrestrial Ecology	\$204,448 (to UMass)

Selected Journal Articles (since 2013, from a total of 60; underlined authors are mentees):

Fusco, E.J., J.T. Finn, J.T. Abatzoglou, J.K. Balch, S. Dadashi, and **B.A. Bradley**, Remote Sensing of Environment, 220, 30-40, 2019

Shiklomanov, A.N., **B.A. Bradley**, K. Dahlin, A. Fox, C. Gough, F.M. Hoffman, E. Middleton, S. Serbin, L. Smallman, W. Smith, In Press, Frontiers in Ecology & Environment

Bradley, B.A., J.M. Allen, M.W. O'Neill, R.D. Wallace, C.T. Barger, J.A. Richburg, and K. Stinson, Ecosphere, 9(7), e02303, <https://doi.org/10.1002/ecs2.2302>, 2018

Bradley, B.A., C.A. Curtis, E.J. Fusco, J.T. Abatzoglou, J.K. Balch, S. Dadashi, and M.N. Tuanmu, Biological Invasions, 20(6), 1493-1506, [10.1007/s10530-017-1641-8](https://doi.org/10.1007/s10530-017-1641-8), 2018

Nagy, R.C., E.J. Fusco, **B.A. Bradley**, J.T. Abatzoglou, and J.K. Balch, Fire, 1(1): 4, 2018

Pasquarella, V.J., J.S. Elkinton, and **B.A. Bradley**, Biological Invasions, <https://doi.org/10.1007/s10530-018-1778-0>, 2018

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, Agronomy, 8(152), [doi:10.3390/agronomy8080152](https://doi.org/10.3390/agronomy8080152), 2018

Balch, J.K., **B.A. Bradley**, J.T. Abatzoglou, R.C. Nagy, E.J. Fusco and A.L. Mahood, Proceedings of the National Academy of Sciences, 114(11): 2946-2951, doi: 10.1073/pnas.1617394114, 2017

Cross, T., J.T. Finn and **B.A. Bradley**, Ecosphere 8(5):e01800. 10.1002/ecs2.1800, 2017

Pasquarella, V.J., **B.A. Bradley**, and C.E. Woodcock, Forests 8(8), 275, [10.3390/f8080275](https://doi.org/10.3390/f8080275), 2017

Allen, J.M. and **B.A. Bradley**, Biological Conservation, 203:306-312, 2016

Bocsi, T., J.M. Allen, J. Bellemare, M. Nishino, J. Kartesz and **B.A. Bradley**, Diversity & Distributions, 22: 615-624, 2016

Bradley, B.A., Landscape Ecology, 31(1):19-30, 2016

Curtis, C.A. and **B.A. Bradley**, PLoS One, 11(11): p.e0166407, 2016

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, Nature Communications, 7:12485, 2016

Fusco, E.J., J.T. Abatzoglou, J.K. Balch, J. Finn and **B.A. Bradley**, Ecological Apps, 26(8): 2388-2399, 2016

Bradley, B.A., R. Early, C.J.B. Sorte, Global Ecology & Biogeography 24(3):348-359, 2015

Curtis, C.A. and **B.A. Bradley**, Invasive Plant Science and Management 8(3):341-352, 2015

He, K.; **B.A. Bradley**, A. Cord, D. Rocchini M-N. Tuanmu, S. Schmidlein, W. Turner, M. Wegmann, N. Pettorelli, Remote Sensing in Ecology & Conservation 1(1): 4-18, 2015

Bradley, B.A., Biological Invasions 16(7):1411-1425, 2014

Chambers, J.C., **B.A. Bradley**, C.M. D'Antonio, J.B. Grace, S.P. Hardegree, R.F. Miller, and D.A. Pyke, Ecosystems, 17(2): 360-375, 2014

Vieira, R., J. Finn and **B.A. Bradley**, Landscape Ecology 29: 1601-1612, 2014

Bradley, B.A., Biological Invasions, 15(7): 1417-1429, 2013

Lehan, N.E., J.R. Murphy, L.P. Thorburn and **B.A. Bradley**, American J. of Botany, 10(7): 1287-1293, 2013

Book chapters (since 2013, from a total of 2):

Bradley, B.A., C.A. Curtis* and J.C. Chambers, 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

Bradley, B.A., pages 240-252 in Dukes, J.S. and Ziska, L.H. (eds.), Invasive Species and Climate Change. CABI Publishing, August 2014

TEACHING (since Fall 2013)

NRC 585 <i>Introduction to GIS</i>	<i>enrollment:</i> ~90	Mean SRTI: 4.4	<i>Taught:</i> Spring
NRC 590IE <i>Invasion Ecology</i>	<i>enrollment:</i> ~30	Mean SRTI: 4.3	<i>Taught:</i> Even Fall
ECO 697CA <i>Cartography</i>	<i>enrollment:</i> 8	Mean SRTI: TBD	<i>Taught:</i> Fall
NRC 547 <i>Global Change Ecology</i>	<i>enrollment:</i> ~30	Mean SRTI: 4.3	<i>Taught:</i> (no longer)
HONORS 391AH <i>Eco Anthropocene</i>	<i>enrollment:</i> 15	Mean SRTI: 4.1	<i>Taught:</i> (no longer)

SERVICE (since Fall 2013)

University Service

Environmental Conservation Personnel Committee (Chair 2018-2019)	2017-2019
Search Committee, GIS lecturer, Co-chair	2015-2016
Graduate Operations Committee, OEB	2015-present
Department Head Evaluation Committee, Chair	2015, 2018
ECO First-year Graduate Student Mentoring Program, Chair	2013-present
Search Committee Member, Stockbridge Soils & Global Change Faculty	2013-2014

Disciplinary Service

Founding member of NE Regional Invasive Species & Climate Change Network	2016-present
Working group PI, Borchard Foundation (Invasions + Climate Change)	2015-2016
Associate Editor, Ecography	2014-present
Associate Editor, Diversity & Distributions	2010-2016