

Evelyn M. Beaury

Assistant Curator, New York Botanical Garden

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RESEARCH INTERESTS

The biogeography and macroecology of global change, namely the spread and impacts of invasive species, land-use change, and climate change. I am currently an Assistant Curator and PI in the Center for Conservation and Restoration Ecology of the New York Botanical Garden.

EDUCATION

PhD, Organismic and Evolutionary Biology, University of Massachusetts Amherst	2022
BA, Ecology and Evolutionary Biology & French, University of Colorado Boulder	2017
<i>Summa Cum Laude</i>	

PROFESSIONAL APPOINTMENTS

Assistant Curator/PI, New York Botanical Garden	2024-
Affiliate Faculty, The City University of New York (Plant Sciences & EEB)	2024-
Affiliate Faculty, Florida International University (Earth & Environment)	2025-
Postdoctoral Research Associate, Princeton University (HMEI & EEB)	2022-24
NSF Graduate Research Intern, United States Geological Survey	2021
NSF Graduate Research Fellow, University of Massachusetts Amherst	2018-22
Research and Teaching Assistant, University of Massachusetts Amherst	2017-22

GRANTS AND FELLOWSHIPS

NSF Human-Environment and Geographical Sciences Program (\$499,160)	2025
PI; Award 2522057; <i>Mapping plant trade as a driver of biological invasions</i>	
NSF Graduate Research Internship Program; U.S. Geological Survey (\$5,000)	2021-21
NSF Graduate Research Fellowship Program; UMass Amherst (\$34,000/year)	2019
UMass College of Natural Sciences Teaching Fellowship (\$3,000)	2019
USGS Northeast Climate Adaptation Science Center Graduate Fellowship	2018-19
Undergraduate Research Opportunities Program Grant; CU Boulder	2016
Marian and Gordon Alexander Fellowship for Montane Research; CU Boulder	2016

HONORS AND AWARDS

Leadership Program, Environmental Data Science Innovation & Impact Lab (ESIIL)	2025
Doctoral Dissertation Award Runner-Up, International Biogeography Society	2023
Team Climate Adaptation Leadership Award, Fish and Wildlife Service	2021
Graduate Student Policy Award, Ecological Society of America	2021
Simberloff Award for Outstanding Presentation, Ecological Society of America	2020
Invited Student Workshop on Socio-Environmental Synthesis at SESYNC	2019
Best Student Presentation Award, Northeast Arc Users Group Conference	2018
Chancellor's Achievement Scholarship, University of Colorado Boulder	2016-17

PEER-REVIEWED PUBLICATIONS

- 2025 Blumenthal, D. Diez, J., Pearse, I., Sofaer, H.R., Sorte, C.J.B., Barnett, D., **Beaury, E.M.**, Bradley, B.A., Corbin, J.D., Dukes, J.S., Early, R., Ibáñez, I., Laughlin, D.C., Petri, L., Vilà, M. (2025). Why are non-native plants successful? Consistently fast economic traits and novel origin jointly explain abundance across US ecoregions. *New Phytologist*. <https://doi.org/10.1111/nph.70307>
- 2025 Bradley, BA, Evans, A, Vilà, M, Barnett, D; **Beaury, EM**; Blumenthal, D; Corbin, J; Dukes, et al. (2025). A quantitative classification of the geography of non-native flora in the U.S. *Global Ecology and Biogeography*. <https://doi.org/10.1111/geb.70041>
- 2025 Smith, J., **Beaury, E.M.**, Cook-Patton, S., Levine, J. Variable impacts of land-based climate mitigation on habitat area for vertebrate diversity. (2025) *Science*. 387 (6732), 420-425. DOI:10.1126/science.adm9485.
***Press coverage in Mongabay, Anthropocene Magazine**
- 2024 Evans, A.E., Colberg, E.M., Allen, J.M., **Beaury, E.M.**, Brown-Lima, C., Morelli, T.L., Bradley, B.A. (2024) Boundary-spanning increases knowledge and action on invasive species in a changing climate. *Ecological Solutions & Evidence*. <https://doi.org/10.1002/2688-8319.12387>.
- 2024 **Beaury, E.M.**, Smith, J., Levine, J.M. Global suitability and spatial overlap of land-based climate mitigation strategies. (2024) *Global Change Biology*, 30, e17515. <https://doi.org/10.1111/gcb.17515>.
***Press coverage in CarbonBrief**
- 2024 Garbowski, M., Laughlin, D., Blumenthal, D., Sofaer, H., Barnett, D., Corbin, J., Nebhut, A., Petri, L., Vilà, M., Buonaiuto, D., Dukes, J., **Beaury, E.M.**, Pearse, I. (2024) Naturalized species drive functional trait shifts in plant communities. *PNAS*. 121 (40) e2403120121.
- 2024 Bradley, B., **Beaury, E.M.**, Gallardo, B., Ibáñez, I., Jarnevich, C., Morelli, T.L., Sofaer, H.R., Sorte, C., Vilà, M. (2024) Observed and Potential Range Shifts of Native and Non-Native Species with Climate Change. *Annual Review of Ecology, Evolution, and Systematics*, 55.
- 2023 Evans, A.E., Jarnevich, C.S., **Beaury, E.M.**, Engelstad, P.S., Teich, N.B., LaRoe, J., Bradley, B.A. (2023) Shifting hotspots: Climate change projected to drive contractions and expansions of invasive plant abundance ranges. *Diversity & Distributions*. <https://doi.org/10.1111/ddi.13787>.
- 2023 **Beaury, E.M.**, Allen, J.M, Bradley, B.A., Evans, A., Fertakos, M.E., Pfadenhauer, W.G., Nelson, M. (2023) Horticulture could facilitate invasive plant range infilling and several cases of range expansion with climate change. *Bioscience*. <https://doi.org/10.1093/biosci/biad069>
***Press coverage in The New York Times**
- 2023 **Beaury, E.M.**, Sofaer, H.R., Early, R., Pearse, I.S., Blumenthal, D.M., Corbin, J.D., Diez, J., Dukes, J.S., Barnett, D.T., Ibáñez, A., Petri, L., Vilà, M., Bradley, B.A. (2023). Macroscale analyses suggest invasive plant impacts depend more on the composition of invading plants than on environmental context. *Global Ecology and Biogeography*, <https://doi.org/10.1111/geb.13749>
- 2023 **Beaury, E.M.**, Jarnevich, C., Pearse, I., Evans, A.E., Teich, N., Engelstad, P., LaRoe, J., Bradley, B.A. Modeling habitat suitability across different levels of invasive plant abundance. *Biol Invasions*, <https://doi.org/10.1007/s10530-023-03118-z>
- 2023 Fertakos, M.E., **Beaury, E.M.**, Ford, N., Bradley, B.A. Historical plant sales (HPS)

database: Documenting the spatiotemporal history of native and introduced plant sales in the conterminous U.S. *Ecology* 104(7): e4106.
<https://doi.org/10.1002/ecy.4106>

- 2023 Fusco, E.J., **Beaury, E.M.**, Bradley, B.A., Cox, M., Jarnevich C.S., Mahood, A.L., Nagy, R.C., Nietupski, T., Halofsky, J.E. The invasive plant data landscape: A synthesis of spatial data and applications for research and management. *Landscape Ecology*, 1-19.
- 2023 Ibáñez, I., Petri, L., Barnett, D.T., **Beaury, E.M.**, Blumenthal, D.M., Dukes, J.S., Corbin, J.D., Early, R., Pearse, I.S., Sorte, C.J.B, Vilà, M., Bradley, B.A. Combining local, landscape, and regional geographies to assess plant community vulnerability to invasion impact. *Ecological Applications*, e2821.
- 2023 Petri, L., **Beaury, E.M.**, Corbin, J., Peach, K., Sofaer, H., Pearse, I.S., Early, R., Barnett, D.T., Ibáñez, I., Peet, R.K., Schafale, M., Wentworth, T.R., Vanderhorst, J.P., Zata, D.N., Spyreas, D., Bradley, B.A. SPCIS: Standardized Plant Community with Introduced Status Database. *Ecology* e3947.
- 2022 Bradley, B.A., **Beaury, E.M.**, Fusco, E.J., Lopez, B.E. Invasive species policy must embrace a changing climate. *BioScience*, <https://doi.org/10.1093/biosci/biac097>
- 2022 Hodžić, J., Pearse, I., **Beaury, E.M.**, Corbin, J.D. & Bakker, J.D. Root hemiparasitic plants are associated with more even communities across North America. *Ecology*. <https://doi.org/10.1002/ecy.3837>.
- 2022 Lopez, B.E., Allen, J.M., Dukes, J.S., Lenoir, J., Vila, M., Blumenthal, D.M., **Beaury, E.M.**, Fusco, E.J., Laginhas, B.B., Morelli, T.L., O'Neil, M.W., Sorte, C.J.B, Maceda-Veiga, A., Whitlock, R., Bradley, B.A. Biological invasions interact with global environmental change to create ecological surprises. *PNAS*. 119.22: e2117389119.
- 2022 Bradley, B.A., **Beaury, E.M.**, Fusco, E.J., Munro, L., Coville, W., Kesler, B., Parker, J., Brown-Lima, C., & Olmstead, N. Breaking down barriers to consistent, climate-smart regulation of invasive plants - a case study in the Northeast U.S. *Ecosphere*. <https://doi.org/10.1002/ecs2.4014>
- 2021 **Beaury, E.M.**, Patrick, M., & Bradley, B.A. (2021). Invaders for sale: the ongoing spread of invasive species by the plant trade industry. *Frontiers in Ecology and the Environment*. doi:10.1002/fee.2392
***Press coverage in the Smithsonian Magazine, Miami Herald, Gardenista, and others**
- 2021 **Beaury, E.M.**, Fusco, E.J., Allen, J.M., & Bradley, B.A. (2021) Plant regulatory lists in the U.S. are reactive and inconsistent. *Journal of Applied Ecology*, 58, 1957–1966. <https://doi.org/10.1111/1365-2664.13934>
***Press coverage in The Wall Street Journal**
- 2021 **Beaury, E.M.**, Finn, J.T., Corbin, J.D., & Bradley, B.A. (2021) Habitat covariates do not artificially cause a negative correlation between native and non-native species richness. *Ecology Letters*, 24: 1735-1737. <https://doi.org/10.1111/ele.13782>
- 2021 Morelli, T.L., Brown-Lima, C., Allen, J., **Beaury, E.M.**, Fusco, E.J., Barker-Plotkin, A., Laginhas, B.B., Quirion, B., Griffin, B., McLaughlin, B., Munro, L., Olmstead, N., Richburg, J., Bradley, B.A. (2021). Translational Invasion Ecology: Bridging research and practice to address one of the greatest threats to biodiversity. *Biological Invasions*. <https://doi.org/10.1007/s10530-021-02584-7>
- 2021 Vilà, M., **Beaury, E.M.**, Blumenthal, D., Bradley, B.A., Early, R., Laginhas, B.B., Trillo,

- A., Dukes, J.S., Sorte, C.J.B., & Ibáñez, I. (2021). Understanding the combined impacts of weeds and climate change on crops. *Environmental Research Letters*, 16(3), 034043. <https://doi.org/10.1088/1748-9326/abe14b>
- 2020 Seastedt, T., White, C.T., Tucker, C., **Beaury, E.M.**, Concilio, A., Gasarch, E., Haggans, V., & J. Smith. (2020). Decadal dynamics of dry alpine meadows under nitrogen and phosphorus additions. *Plant Ecology* 221, 647–658. <https://doi.org/10.1007/s11258-020-01039-8>.
- 2020 Wallingford, P.D., Morelli, T.L., Allen, J.M., **Beaury, E.M.**, Blumenthal, D.M., Bradley, B.A., Dukes, J. S., Early, R., Fusco, E.J., Goldberg, D., E., et al. Adjusting the lens of invasion biology to focus on the impacts of climate-driven range shifts. *Nature Climate Change*. 10, 398–405. <https://doi.org/10.1038/s41558-020-0768-2>.
- 2020 **Beaury, E.M.**, Finn, J.T., Corbin, J.D., Barr, V. & Bradley, B.A. (2020). Biotic resistance to invasion is ubiquitous across ecosystems of the United States. *Ecology Letters*, 23: 476–482. doi:10.1111/ele.13446
- 2019 **Beaury, E.M.**, Fusco, E.J., Jackson, M.R., Laginhas, B.B., Morelli, T.L., Allen, J.M., Pasquarella, V.J., & Bradley, B.A. (2019). Incorporating climate change into invasive species management: insights from managers. *Biological Invasions*, 22: 233. doi.org/10.1007/s10530-019-02087-6.

INVITED TALKS

- 2025 New York Botanical Garden Monthly Webinar Series (95 participants).
- 2025 Keynote address, Managing Invasives: Mindful Ecological Approaches Symposium hosted by the Perfect Earth Project (200 participants).
- 2025 Northeast Native Plant Workshop hosted by Halfmoon Seminars (22 participants).
- 2025 Pennsylvania Invasives Webinar Series (400 participants).
- 2025 Guest lecturer, Western Massachusetts Master Gardener Association Intern Training Class (25 participants).
- 2025 Guest lecturer, Invasive Species: Ecology, Policy, and Management, Yale School of the Environment (16 participants).
- 2024 Wildfires, Invasive Species, and Climate Change Conference, Canadian Council on Invasive Species (215 participants).
- 2024 Panelist, COP16 United Nations Biodiversity Conference Session on Nurturing Nature Through Plant-based Solutions for Long-Term Climate Resilience (50 participants).
- 2024 American Society of Landscape Architects Webinar Series (70 participants).
- 2024 Columbia University, Ecology, Evolution, and Environmental Biology Departmental Seminar Series (30-40 participants).
- 2024 National University of Singapore, Centre for Nature-based Climate Solutions-Princeton Joint Workshop on Nature-Based Solutions (20 participants).
- 2024 King County Weed Management Webinar Series (300 participants).
- 2024 Defenders of Wildlife Center for Conservation Innovation Seminar Series (20 participants).
- 2024 Resilient Long Island Symposium (180 participants).
- 2024 Columbia University E3B Menge Lab Meeting (10 participants).
- 2024 Hunterdon County Master Gardeners Seminar Series (40 participants).
- 2024 Natcap Research Seminar Series (20 participants).
- 2024 New York Botanical Garden Seminar Series (40 participants).

2023	Ohio Invasive Plant Council Annual Meeting (100 participants).
2023	Native Plant Society of New Jersey Webinar Series (40 participants)
2023	UC Berkeley Department of Environmental Science, Policy & Management Seminar Series (50 participants).
2023	Northeast Native Plant Workshop, hosted by HalfMoon Education.
2022	UC Davis Department of Plant Sciences Seminar Series.
2022	New Jersey Strike Team Annual Conference.
2022	Montana Invasive Species Council Webinar Series.
2022	Central Plant Board Conference.
2022	Master Gardeners of Massachusetts.
2022	Life Science Café, University of Massachusetts Public Lecture Series.
2021	Massachusetts Pollinator Network Webinar Series.
2021	Minnesota Noxious Weed Advisory Committee Webinar Series.
2021	Amherst Garden Club Monthly Meeting.
2021	Panelist, Association of College and Research Libraries New England Chapter Roundtable.
2018	National Association of Invasive Plant Councils Quarterly Meeting.

CONFERENCE PRESENTATIONS

2025	North American Invasive Species Management Association Annual Conference (talk)
2025	Society for Ecological Restoration Annual Conference (talk)
2025	Ecological Society of American Annual Conference (career panel)
2024	International Biogeography Society Biannual Meeting (talk).
2023	Ecological Society of America Annual Conference (talk).
2022	British Ecological Society Annual Conference (poster).
2022	Ecological Society of American Annual Conference (talk).
2022	Northeast Regional Invasive Species and Climate Change Management Network Symposium (lightning talk).
2021	North American Invasive Species Management Association Annual Conference (talk).
2021	Ecological Society of America Annual Conference (talk).
2020	North American Invasive Species Management Association Conference (talk).
2020	Ecological Society of America Annual Conference (talk).
	<u>Simberloff Award for Outstanding Presentation.</u>
2020	International Association of Landscape Ecology Annual Conference (talk).
2019	North American Invasive Species Management Association Annual Conference (talk).
2019	Northeast Association of Fish and Wildlife Agencies Conference (talk).
2019	UMass School of Earth and Sustainability Student Showcase (poster).
2018	Northeast Arc Users Group Conference (poster).

Best Student Presentation.

PROFESSIONAL SERVICE AND OUTREACH

Professional and departmental contributions

- Researcher and coordinator, Regional Invasive Species and Climate Change Management Networks (<https://www.riscnetwork.org/>), 2017-present

- Multistakeholder network focused on expanding the research, outreach, management, and policy of invasive species and climate change. Activities include conducting translational ecological research, synthesizing science for a practitioner audience, organizing webinars, workshops, and symposia, and consulting invasive species policy and management groups.
 - Currently serving >2400 members across North America. My positions are on the Northeast Leadership Team and the North Central Advisory Board.
 - **2021 Association of Fish and Wildlife Climate Adaptation Leadership Award**
- Researcher, Global Change and Invasions Working Group, 2017-present
 - Network of researchers interested in the biogeography and macroecology of global change, biological invasions, and their interactions.
 - Funded group meetings: UMass Amherst (2017), La Estación Biológica de Doñana (2018), The National Center for Ecological Analysis & Synthesis (2019-2021), U.S.G.S Powell Center (2023-2025).
- Green Zone attendee and panelist for an event hosted at COP16, the 2024 United Nations Biodiversity Conference in Cali, Columbia
- Organized session on 'Aligning biodiversity conservation and climate mitigation' at the Ecological Society of America Annual Meeting, 2024
- Nominated for the Henry Horn Award for Service, Department of Ecology and Evolutionary Biology, Princeton University, 2024
- Officer, University Postdoctoral Council to serve Postdoctoral Fellows, Princeton University, 2022-23
- President of the Organismic and Evolutionary Biology Graduate Program, University of Massachusetts Amherst, 2020
- Invited Researcher, Student Workshop on Socio-Environmental Synthesis, 2019
 - Training in interdisciplinary research, science policy, and science communication at the National Socio-Environmental Synthesis Center (SESYNC).

Diversity, equity, and inclusion

- Princeton Plant Ecology Field Workshop, 2022-2024
 - Co-organizer and instructor for an annual field course for students from underrepresented backgrounds in environmental science, described further under 'Teaching and Mentoring'
- Co-organizer of the Ecology and Evolutionary Biology Anti-Bias Discussion Series, 2024
- Postdoc Representative, 'Climate for All' committee to increase inclusion in Ecology and Evolutionary Biology, Princeton University, 2022-24
- Co-author of the 'Action Plan to Institute Structural Changes to Support the UMass Black and Brown Community', University of Massachusetts Amherst, 2020
- Co-facilitator of the Organismic and Evolutionary Biology Graduate Program forum on anti-racism, 2020

Science communication

- Media coverage (including interviews and articles): Growing Greener Podcast, Plant People Podcast, The New York Times, Wall Street Journal, Smithsonian Magazine, Miami Herald, Fine Gardening, Gardenista, Mongabay, Anthropocene Magazine
- Author, CarbonBrief Guest Post: 'The conflicting practices in using land to tackle climate change', 2025
- Author, Pennsylvania iMapInvasives newsletter: 'Limiting the Spread of Invasive Ornamental Plants' (<https://tinyurl.com/srahp9ek>), 2022
- Nominated for the Northeast Outdoor Writers Association Award, 2021
- Published translational ecology and outreach materials, Regional Invasive Species and Climate Change Research to Practice Papers (<https://www.risccnetwork.org/research-to-practice>), 2017-present

- Fertakos, M., Nufer, T., **Beaury, E.**, Singh, K., Brinka, M., Birch, S., Marschner, C., Allen, J. (2025). "Climate Smart Gardening 2.0".
- Allen, J.A., **Beaury, E.M.**, Mazzuchi, J., Nelson, M., O'Uhuru, A., Bradley, B.A. (2022). "Do Not Sell! Ornamental invasive plants to avoid with climate change".
- Bradley, B.A., Bayer, A., Griffin, B., Joubran, S., Laginhas, B.B., Munro, L., Talbot, S., Allen, J.M., Baker-Plotkin, A., **Beaury, E.M.**, et al. (2020). "Gardening with climate-smart native plants in the Northeast".
- **Beaury, E.M.**, Barker-Plotkin, A., Brown-Lima, C., Fusco, E.J., Griffin, B., Joubran, S., Laginhas, B.B., Graham MacLean, M., Morelli, T.L., et al. (2020). "Taking Action: Managing invasive species in the context of climate change."
- Bradley, B.A., **Beaury, E.M.**, Fusco, E.J., Griffin, B.J., Laginhas, B.B., McLaughlin, B.C., Morelli, T.L., & L. Munro. (2019). "Double Trouble: Understanding risks from invasive species + climate change".
- Fusco, E.J., Allen, J.M., **Beaury, E.M.**, Jackson, M.R., Laginhas, B.B., Morelli, T.L., & B.A. Bradley. (2018). "Why Native? Benefits of planting native species in a changing climate".
- Organizer, Life Science Café (<https://sci-stories.org/life-science-cafe/>), 2017-2021
 - Co-organizer of more than 20 events as part of a communication series curating community conversations about local research in the life sciences.
- Leader, That's Life [Science] Blog and Outreach (<https://sci-stories.org/thats-life-science/>), 2017-2021
 - Former Vice President, treasurer, writer, editor, and outreach committee member of a life science themed blog and outreach organization aiming to communicate science in a creative and accessible format.
 - Author of 13 popular science articles (e.g., <https://sci-stories.org/2024/05/14/changing-the-climate-change-conversation/>)

Journal contributions and societies

- Associate Editor: *Biological Invasions*, 2024-present; *The Botanical Review*, 2025-present; *Management of Biological Invasions*, 2019-2025
- Reviewer: *Nature*, *Nature Communications: Earth and Environment*, *PNAS*, *Ecology Letters*, *Bioscience*, *Ecology*, *Ecology & Evolution*, *Diversity & Distributions*, *Biological Invasions*, *NeoBiota*, *Ecological Applications*, *Restoration Ecology*, *Conservation Biology*, *Rethinking Ecology*, *Journal of Vegetation Science*, *Management of Biological Invasions*
- Member: Ecological Society of America, International Biogeography Society, Princeton Women in Science Partnership (former), AAAS (former)

MENTORING

PhD Students

Meredith Preve, PhD in progress, Florida International University

Undergraduate Students

STEM at Cultural Institutions NYC Network Internship Program: Yanet Tavaréz (City College of NY, 2025), Anna Pierson (NYU, 2025)

UMass Amherst Research Assistants: Julia Mazzuchi (2021), Neil Ford (2020), Maddie Patrick* (2017-2020), Megan Breviglia (2018-2019), Emily Lao (2018), Bailey Buckley (2018), Liam Cleary (2018), Madison Benoit (2018), Muchen Liu (2017)

* *honors thesis*

High School Students

Aleena Chowdhury (2025-), Sebastian Maldonado (2025),

TEACHING

Instructor, Annual Princeton Plant Ecology Field Workshop, Island Beach State Park, NJ, 2022-24

Annual field course that provides undergraduate students from underrepresented backgrounds with skills in ecological research (*enrollment 2022: 11; 2023: 21, 2024: 18*).

Teaching Fellow, College of Natural Sciences, University of Massachusetts Amherst, 2019

Instructor of Record for Freshman Seminar on Invasive Species (*enrollment: 32*).

Teaching Assistant, University of Massachusetts Amherst, 2018-19

Introductory Geographic Information Science with ArcGIS Lab (*enrollment: ~90 students per semester*)

Environmental Education

Research and Education Volunteer, Denver Botanic Gardens, 2015

Environmental Education Intern, Shaver's Creek Environmental Center, 2015