

CURRICULUM VITAE

BEN R. LEE

Address:

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Education:

2014 - Current	University of Michigan School for Environment and Sustainability Ph.D. candidate in Resource Ecology Management Dissertation topic: Shifts in seedling foliar phenology in response to climate change	Ann Arbor, MI
2012	University of Washington B.Sc. in Biology (Ecology, Evolution, and Conservation) Minor in Philosophy	Seattle, WA

Publications:

Ibáñez, I., Juno, E., Schaffer-Morrison, S., Tourville, J., **Lee, B.R.**, Karounos, C., McCollum, C., and Acharya, V.K. Forest resilience under global environmental change: Do we have the information we need? *in revision*.

Ibáñez, I., Katz, D.S.W., **Lee, B.R.** 2017. The contrasting effects of short-term climate change on the early recruitment of tree species. *Oecologia* 184(3): 701-13.

Ettinger, A., **Lee, B.R.**, and Montgomery, S. 2017. Seed limitation and lack of downed wood, not invasive species, threaten conifer regeneration in an urban forest. *Urban Ecosystems*. DOI: 10.1007/s11252-016-0640-3.

Grants, fellowships, and awards:

- 2019 Samuel A. Graham Award, School for Environment and Sustainability, U-M
- 2018 Schrank Family Scholarship, University of Michigan Biological Station
- 2016 Winifred B. Chase Fellowship: Matthaei Botanical Gardens, University of Michigan
- 2012 Casey Award: University of Washington
- 2009 AmeriCorps Scholarship: Students in Service program

Presentations in professional meetings:

Lee, B.R. and Inés Ibáñez, 2019. "Foliar phenology shifts affect tree seedling recruitment performance in Great Lakes forests." Contributed Oral Presentation. Ecological Society of America Annual Conference.

Lee, B.R. and Inés Ibáñez, 2019. "Drought-related tree seedling mortality in the Great Lakes region." Poster presentation. Early Career Scientists Symposium, University of Michigan.

Lee, B.R. and Inés Ibáñez, 2018. "Drought-related tree seedling mortality in the Great Lakes region." Poster presentation. Ecological Society of America Annual Conference.

Lee, B.R. and Inés Ibáñez, 2017. "The multifaceted effects of climate change on tree seedling recruitment: Assessing the combined effects of phenological shifts, light, and drought on carbon starvation processes." Poster presentation. Ecological Society of America Annual Conference.

Lee, B.R., S. Montgomery, A. Ettinger, and J. HilleRisLambers. 2012. "A lost generation of trees: Investigating the cause of low tree recruitment in urban coniferous forests." Poster presentation. Ecological Society of America Annual Conference.

Solicited presentations:

Lee, B.R. "Forest recruitment and climate change." Research Education and Activities for Classroom Teachers (REACT) Conference. Ann Arbor, Michigan. 26 June 2017. Speech.

Lee, B.R. "Tree recruitment and climate change: Assessing the combined effects of phenological shifts, light, and drought on carbon starvation processes." Guest lecture for Forest Ecology class. Ann Arbor, Michigan. 20 October 2016.

Research Experience:

University of Michigan

Ann Arbor, MI

2014-

Doctoral Dissertation

- PI: Dr. Inés Ibáñez

My dissertation examines the combined effects of phenological shifts, light, and drought on carbon starvation processes in northern temperate forests. Specifically, it analyzes how seedling foliar phenology interacts with that of the forest canopy and how that interaction affects seedling carbon uptake. I use standard gas-exchange measurement protocol to establish patterns of seedling carbon assimilation across the entire growing season and then pair it with observations and predictions of foliar phenology in to model the full impact of phenological shifts on seedling performance.

University of Washington

Seattle, WA

2011-2012

Lab/Field Technician (Forest Demography Lab)

- PI: Dr. Janneke Hille Ris Lambers

2010-2012

Undergraduate Researcher (Urban Forest Ecology)

- PI: Dr. Ailene Ettinger

Teaching and mentoring:

University of Michigan

Ann Arbor, MI

2017 -

Doris Duke Conservation Scholars Program

- Mentor for conservation scholar (20 hrs/week over the summer)

2016 - **Graduate Student Instructor**
 • Forest Ecology (15 hrs/week)

2014-2016 **Undergraduate Research Opportunity Program**
 • Supervisor and mentor (3 hrs/week)

Islander Middle School Mercer Island, WA
 2013-2014 **Paraprofessional**
 • Worked in 7th- and 8th-grade math classrooms, primarily with students with learning differences and individualized education plans.
 • Tutored students in math, science, and English at the middle and high school level.

University of Washington Seattle, WA
 2012 **Teaching Assistant**
 • Introduction to Biology: Ecology, Evolution, and Conservation Biology

Reviews for:

- *American Journal of Botany, Ecoscience, Journal of Vegetation Science, PeerJ*

Service:

2017 - **R.E.A.C.T. Workshop**, Ecology and climate change track leader Ann Arbor, MI
 • Created, organized, and taught lesson plans in biology and climate change science to K-12 educators that they brought back to and utilized in their classrooms.

2016 - **University of Michigan Tree Advisory Council**, Student Representative Ann Arbor, MI
 • The TAC is a group of forest properties managers, landscape architects, arborists, and students that works with Tree Campus USA (<https://www.arborday.org/programs/treecampususa/>), part of the Arbor Day Foundation. We are dedicated to managing green spaces on campus and to promoting education and outreach in the campus community.

2015-2017 **Climate Change and Michigan Cherries**, Collaborator Ann Arbor, MI
 • Developed high school curriculum designed to teach students the basics of phenology and climate change, particularly as they relate to important crops in Michigan.

2015-2017 **Climate Change and Michigan Forests**, Volunteer and Trainer Ann Arbor, MI
 • Led 7th-grade Ann Arbor Public Schools students on field trips to local forests as part of a unit teaching them about the impacts of climate change on the environment.
 • Trained teachers and volunteers in the use and maintenance of the increment borers involved in the lesson plan.