EMILY M. BOOTH

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Department of Integrative Biology
University of Texas at Austin
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EDUCATION

2011-present	Ph.D. Plant Biology, University of Texas at Austin, Austin, TX.
	Advisor: Dr. Norma Fowler. Expected graduation date, May 2017.
2015	Graduate Portfolio Program in Applied Statistical Modeling, Department of
	Statistics and Data Sciences, University of Texas at Austin, Austin, TX.
2011	M.S. Plant Biology and Conservation, Northwestern University, Evanston, IL, and
	Chicago Botanic Garden, Glencoe, IL. Advisor: Dr. Krissa Skogen.
2005	B.A. Psychology, Oberlin College, Oberlin, OH.

HONORS AND AWARDS

2016	Graduate School Dissertation Writing Fellowship, University of Texas at Austin: \$11,352
2015	Student Employee Excellence Certification, University of Texas at Austin
2012	Phi Kappa Phi
2011	Integrative Biology Recruitment Fellowship, University of Texas at Austin: \$27,000
	+ Tuition
2009	Shaw Fellowship, Northwestern University and Chicago Botanic Garden: \$25,000
2007	Two AmeriCorps Education Awards: <i>Total</i> , \$3,613
2001-2005	Merit-Based Scholarship, Oberlin College: \$72,000

GRANT SUPPORT

2013-2015	Texas Parks and Wildlife Department. 'Factors determining post-wildfire plant community recovery trajectories in Bastrop State Park, Texas', PI: Dr. Norma Fowler. <i>Total:</i> \$93,786
2013	Plant Biology Graduate Student Research Support, University of Texas at Austin: \$843
2013	Plant Biology Graduate Student Travel Support, University of Texas at Austin: \$800
2012	Travel, Research, and Educational Experience (TREE) Grant, Association for Fire Ecology: \$400
2012	Ann Miller Gonzalez Graduate Research Grant, Native Plant Society of Texas: \$2,000
2010	Plant Biology and Conservation Travel Grant, Northwestern University: \$460

PUBLICATIONS

Booth, E. M., and Fowler, N. L. **2015**. Understanding post-wildfire vegetation trajectories in pine-oak woodlands. In: R. E. Keane, Jolly, M., Parsons, R., Riley, K. 2015. Proceedings of the large wildland fires conference, May 19-23, 2014, Missoula, MT. Proc. RMRS-P-73. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 345p.

Booth, E. M. **2013**. Post-wildfire plant regeneration in Bastrop State Park. Native Plant Society of Texas News. 31(1):12.

INVITED PRESENTATIONS

- Booth, E. M., and N. L. Fowler. **2015**. Wildland fire in central Texas. *Oral presentation*, Native Plant Society of Texas Annual Symposium, Austin, TX.
- Booth, E. M. and N. L. Fowler. **2013**. Post-wildfire plant community regeneration in the Lost Pines. *Oral presentation*, Native Plant Society of Texas, Williamson County Chapter, Georgetown, TX.
- Booth, E. M., and N. L. Fowler. **2012.** Effects of pre-wildfire prescribed burns, wildfire intensity, and post-wildfire management on plant regeneration in the Lost Pines of Texas. *Published abstract and oral presentation*, 'Fire Trek' Special Session, 5th International Fire Congress of the Association for Fire Ecology, Portland, OR.
- Booth, E. M., and N. L. Fowler. **2012**. Effects of wildfire severity and post-wildfire management on tree regeneration in the Lost Pines region of Texas. *Poster presentation*, Native Plant Society of Texas Annual Symposium, Kerrville, TX.

CONTRIBUTED PRESENTATIONS

- Booth, E. M. and N. L. Fowler. **2015**. Post-Wildfire Legacy Effects in a Pine-Oak Woodland. *Poster presentation*, 6th International Congress of the Association of Fire Ecology, San Antonio, TX.
- Booth, E. M. and N. L. Fowler. **2015**. Effects of soil, light availability, and burn severity on post-wildfire recruitment of dominant woody species in a pine-oak woodland. *Poster presentation*, Ecological Society of America Centennial Meeting, Baltimore, MD.
- Booth, E. M. and N. L. Fowler. **2014**. Understanding post-wildfire vegetation trajectories in pine-oak woodlands. *Poster presentation*, Large Wildland Fires Conference, Missoula, MT.
- Booth, E. M., N. L. Fowler, and E. Keith. **2013**. Effects of management actions and wildfire severity on post-wildfire vegetation recovery in the Lost Pines of Texas. *Oral presentation*, Ecological Society of America Annual Meeting, Minneapolis, MN.
- Booth, E. M., and N. L. Fowler. **2013**. Post-wildfire plant regeneration in the Lost Pines of Texas. *Oral presentation*, University of Texas at Austin Integrative Biology Graduate Student Symposium, Austin, TX.
- Booth, E. M., and K. Skogen. **2011**. Potential effects of Climate Change on *Penstemon palmeri* (Plantaginaceae) in Zion National Park, Utah, U.S.A. *Poster presentation*, Ecological Society of America Annual Meeting, Austin, TX.

TEACHING

2016	Teaching assistantship, Ecology. Led discussion sections, mentored students, graded assignments. University of Texas at Austin.
2016	Teaching assistantship, Field Seminar in Environmental Science and Sustainability. Lectured, led field trips, organized field trip logistics, mentored independent
	research projects, graded lab reports. University of Texas at Austin.
2014-2015	Invited guest lecturer (1/semester), Field Seminar in Environmental Science and
	Sustainability. Taught undergraduates about fire ecology; helped organize and
	lead trips to recently burned sites to teach field methods and apply knowledge
	from lecture.
2014	Teaching assistantship, Introduction to Biology I. Led discussion sections, graded
	exams and assignments. University of Texas at Austin.
2013	Mentored a Research Experience for Undergraduates (REU) intern. Taught
	experimental design, field work skills, data analysis, and poster design.
	University of Texas at Austin.
2013	Teaching assistantship, Introduction to Biology II. Led discussion sections, graded
	exams. University of Texas at Austin.
2012	Teaching assistantship, Ecology. Helped develop exercises, led discussion sections,
	graded exams and assignments. University of Texas at Austin.

2010 – 2011 Teaching assistantship, Ethnobotany. Proctored and graded exams. Northwestern University.

RESEARCH ASSISTANTSHIPS AND INTERNSHIPS

2013-2015	Graduate research assistantship. In support of dissertation research. University of Texas at Austin, Austin, TX, and Bastrop State Park, Bastrop, TX.
2010-2011	Graduate research assistantship. Pollinator observations, vegetation surveys, insect
2010 2011	collections, data entry and validation. Chicago Botanic Garden, Glencoe, IL.
2007	Fire Effects Monitoring and Inventory Protocol (FIREMON) Crew Member, Student
	Conservation Association. Extensive vegetation and fuel surveys. Durango,
	CO.
2007	Natural Resources Intern, Student Conservation Association. Tree surveys and
	mapping, invasive species control, volunteer coordination. Mammoth Cave
	National Park, KY.

SERVICE AND OUTREACH

2016	Presented a talk, 'Plants on Fire!', at Science Under the Stars, a public outreach
	series. Austin, TX.
2011-2015	Student volunteer at attended meetings of the Ecological Society of America.
2012-2015	Student volunteer at attended meetings of the Association for Fire Ecology.
2014	Volunteer wildland firefighter on prescribed fires at Ladybird Johnson Wildflower
	Center. Austin, TX.
2013	Co-organizer of Science Under the Stars, a public lecture series. Austin, TX.
2012-2015	Founder and President, Central Texas Student Association for Fire Ecology (SAFE).
	Organize journal clubs, field trips, and public outreach events; connect fire
	ecology students throughout Central Texas. Austin, TX.
2012	Member, Master Planting Science Team, an online program that connects scientists
	with grade school students to develop class experiments.
	PlantingScience.org

MEDIA COVERAGE

2014	Interview for the University of Texas at Austin College of Natural Sciences,
	available here: https://cns.utexas.edu/news/portrait-of-a-fire-ecologist
2014	Interview for They Blinded Me With Science on KVRX, University of Texas at
	Austin student radio

PROFESSIONAL SKILLS AND CERTIFICATIONS

Software and computer languages: ArcGIS, ERDAS IMAGINE, FFI/FFI-Lite, GPS, HTML/CSS, Python, R, SAS, SigmaPlot

Field skills: plant identification and collection, insect collection, vegetation and fuel survey methods (including Fire Monitoring Handbook/FIREMON protocols)

National Wildfire Coordinating Group certifications:

S-290 (2016, course taken unofficially), Intermediate Wildland Fire Behavior

RX-310 (2015), Introduction to Fire Effects

RT-130 (2014), Annual Fireline Safety Refresher Training

S-130/S-190 (2013), Firefighter Training & Introduction to Wildland Fire Behavior

L-180 (2013), Human Factors in the Wildland Fire Service

I-100 (2013), Introduction to Incident Command System

Languages: English (fluent), French (fluent)

PROFESSIONAL AFFILIATIONS

Ecological Society of America, Association for Fire Ecology, Botanical Society of America, International Association for Vegetation Science