

EMILY M. BOOTH

Department of Integrative Biology
University of Texas at Austin
1 University Station, Mail Code A6720
Austin, TX 78712

embooth@utexas.edu
phone: 512-471-4546

EDUCATION

- 2011-present Ph.D. Plant Biology, University of Texas at Austin, Austin, TX.
Advisor: Dr. Norma Fowler. Expected graduation date, December 2016.
- 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

- 2015 UT Austin Student Employee Excellence Certification
- 2012 Phi Kappa Phi
- 2011 UT Austin Integrative Biology Recruitment Fellowship: \$27,000 + *Tuition*
- 2009 Northwestern University and Chicago Botanic Garden Shaw Fellowship: \$25,000
- 2007 Two AmeriCorps Education Awards: *Total, \$3,613*
- 2001-2005 Oberlin College Merit-Based Scholarship: \$24,000/yr

GRANT SUPPORT

- 2013-2015 Texas Parks and Wildlife Department. Factors determining plant community
recovery trajectories in Bastrop State Park, Texas (PI: N. L. Fowler):
Total, \$75,669
- 2013 UT Austin Plant Biology Graduate Student Research Support: \$843
- 2013 UT Austin Plant Biology Graduate Student Travel Support: \$800
- 2012 Association for Fire Ecology Travel, Research, and Educational Experience (TREE)
Grant: \$400
- 2012 Native Plant Society of Texas, Ann Miller Gonzalez Graduate Research Grant.
'Effects of wildfire severity and post-wildfire management on tree
regeneration in the Lost Pines region of Texas': \$2,000
- 2010 UT Austin Plant Biology and Conservation Travel Grant: \$460

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 Pine-Oak Woodlands. *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

- 2014-2015 Invited guest lecturer (single day), 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. First year biology course for biology majors introducing cellular and molecular biology. University of Texas at Austin, Austin, TX. Led discussion sections, graded exams and assignments.
- 2013 Teaching assistantship, Introduction to Biology II. First year biology course for biology majors covering genetics, evolution, physiology, and ecology. University of Texas at Austin, Austin, TX. Led discussion sections, graded exams.
- 2012 Teaching assistantship, Ecology. Upper-division course for biology majors. Helped develop exercises, led discussion sections, graded exams and assignments. University of Texas at Austin, Austin, TX.
- 2010 – 2011 Teaching assistantship, Ethnobotany. Lower-division course for biology non-majors. Proctored and graded exams. Northwestern University, Evanston, IL.

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 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

- 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.
2013 Supervised a Research Experience for Undergraduates (REU) intern. Taught experimental design, field work skills, basic data analyses, and poster design. Austin, TX.
2012-2015 Co-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: SAS, R, Python, SigmaPlot, ArcGIS, ERDAS IMAGINE, GPS, FFI, HTML/CSS
Field skills: plant identification and collection, insect collection, experimental design, vegetation and fuel survey methods (including FIREMON/FMH)
National Wildfire Coordinating Group certifications: RT-130 (2014), S-130, S-190, L-180, I-100
Languages: English (fluent), French (fluent)

PROFESSIONAL AFFILIATIONS

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