

## EMILY M. BOOTH

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University of Texas at Austin  
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### EDUCATION

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- 2011-present Ph.D. Plant Biology, University of Texas at Austin, Austin, TX.  
*Advisor:* Dr. Norma Fowler.
- 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

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- 2012 Phi Kappa Phi
- 2011 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

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- 2013-2014 Texas Parks and Wildlife Department. 'Factors determining plant community  
recovery trajectories in Bastrop State Park, Texas' (PI: N. L. Fowler):  
\$49,869
- 2013 Plant Biology Graduate Student Research Support: \$843
- 2013 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 Plant Biology and Conservation Travel Grant: \$460

### INVITED PRESENTATIONS

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- 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, 5<sup>th</sup> International Fire Congress. 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

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- 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. Published abstract and oral presentation, Ecological Society of America Annual Meeting, Minneapolis, MN.

Booth, E. M., and K. Skogen. **2011.** Potential effects of Climate Change on *Penstemon palmeri* (Plantaginaceae) in Zion National Park, Utah, U.S.A. Published abstract and poster presentation, Ecological Society of America Annual Meeting, Austin, TX.

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### TEACHING ASSISTANTSHIPS

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- 2013 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 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 Ethnobotany. Lower-division course for biology non-majors. Proctored and graded exams. Northwestern University, Evanston, IL.

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### RESEARCH ASSISTANTSHIPS AND INTERNSHIPS

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- 2014 Graduate research assistantship. In support of dissertation research. University of Texas at Austin, Austin, TX, and Bastrop State Park, Bastrop, TX.
- 2013 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 Student Conservation Association, Fire Effects Monitoring and Inventory Protocol (FIREMON) Crew Member. Extensive vegetation and fuel surveys. Durango, CO.
- 2007 Student Conservation Association, Natural Resources Intern. Tree surveys and mapping, invasive species control, volunteer coordination. Mammoth Cave National Park, KY.

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### SERVICE AND OUTREACH

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- 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-present Co-Founder and member, Central Texas Student Association for Fire Ecology (SAFE). Organize weekly journal club, 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](http://PlantingScience.org)

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### PROFESSIONAL SKILLS

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Technology: SAS, R, Python, SigmaPlot, ArcGIS, ERDAS IMAGINE, GPS, FFI

Field skills: plant identification and collection, insect collection, experimental design, vegetation and fuel survey methods (including FIREMON)

Languages: English (fluent), French (fluent), Spanish (currently learning)

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### PROFESSIONAL AFFILIATIONS

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