

## EMILY M. BOOTH

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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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- 2013-2015 Texas Parks and Wildlife Department. 'Factors determining plant community  
recovery trajectories in Bastrop State Park, Texas' (PI: N. L. Fowler):  
*Total*, \$75,669
- 2013 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. 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 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

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- 2014-2015    Invited guest lecturer, Field Seminar in Environmental Science and Sustainability. Lectured undergraduates on fire ecology; helped organize and lead trips to recently burned sites to teach students 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

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- 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        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.

## 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 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](http://PlantingScience.org)

## **MEDIA COVERAGE**

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- 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 Interviewed by Amanda Perofsky for They Blinded Me With Science on KVRX,  
University of Texas at Austin student radio

## **PROFESSIONAL SKILLS AND CERTIFICATIONS**

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

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

NWCG certifications: RT-130 (2014), S-130, S-190, L-180, I-100

Languages: English (fluent), French (fluent), Spanish (beginner)

## **PROFESSIONAL AFFILIATIONS**

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