

Chase T. Brooke **Curriculum Vitae**

Contact Information:

Ecosystem Science and Management
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Education:

Current M.S. Ecosystem Science and Management, Texas A&M University
2014 B.S. Spatial Science, Texas A&M University

Manuscripts in Preparation:

Vaughan, M., **Brooke, C. T.**, Durick, H., Dwight, R., Hanson, A., Naito, A., Lafon, C. 2016.
"Reconstructing the Past: A Dendrochronological Development of Fire Occurrence
Across the Eastern United States."

Brooke, C.T., Lawing, A. M., 2016. "Identifying characteristics describing wildland fire
occurrence using maximum entropy modeling."

Research:

MS Thesis Research (2015-2017). "Determining the suitability envelope of wildfires in the State
of Texas using distribution modeling: a multi-scaled spatial approach."

Presentations:

- 2016 Presentation, 3rd SW Fire Ecology Conference. November 27-December 1. "Using
Maximum Entropy Modeling to Predict Wildland Fire Occurrence in the State of Texas".
- 2016 Presentation, Texas A&M University System, 13th annual Pathways Symposium.
November 4. "Using Maximum Entropy Modeling to Predict Wildland Fire Occurrence in
the State of Texas".
- 2016 Presentation, Ecosystem Science and Management, Graduate Student Association
Meeting. October 5. "Broader impacts: Communicating your research"
- 2016 Invited Speaker, USDA ARS Grazinglands Research Laboratory. September 15.
"Predicting Wildland Fire Occurrence using Maximum Entropy Modelling in the Southern
Great Plains of North America." El Reno, OK.
- 2016 Invited Speaker, Ecosystem Science and Management, Graduate Student Association
Meeting. April 4. "Controlling Wildfire: How climate change and land use drives fire
across the western united states." College Station, TX.
- 2016 Presentation, 17th Annual Ecological Integration Symposium. April 1. "Controlling
Wildfire: How climate change and land use drives fire across the western united states."
College Station, TX.
- 2016 Poster, 3rd Annual AGGS Symposium. March 4. "Reconstructing the past: a
dendrochronological development of fire occurrence across eastern North America."
College Station, TX.

Grants and Awards:

2016 Ecosystem Science & Management Departmental Travel Grant - \$500
2016 Association for Fire Ecology TREE Travel Grant - \$700
2016 CIRTl Practitioner Certificate
2016 South Central Climate Center Early Career Conference Travel Grant - \$300
2016 College of Agriculture and Life Sciences SLOAN PEM 2015-2016 Personal Development Grant - \$1000
2015-2017 College of Agriculture and Life Sciences Excellence Fellowship, Texas A&M University. - \$36,000
2014 Academic Certificate in Leadership Studies. Texas A&M Corps of Cadets
2012 Outstanding Recruiter Award. Texas A&M Corps of Cadets.
2012 Award for Academic Excellence. Texas A&M Corps of Cadets.

Certifications:

2016 RX 310: Introduction to Fire Effects

Teaching:

Graduate Teaching Assistant, Department of Entomology, Texas A&M University. (Summer 2016). Course: Big Bend Field Course. Level: Graduate/Undergraduate.
Guest Lecturer, Department of Ecosystem Science and Management, Texas A&M University (April 2016). "Quality of Life Indices." Level: Undergraduate.
Guest Lecturer, Department of Ecosystem Science and Management, Texas A&M University (October 2015). "Distance and Density" Level: Undergraduate
Guest Lecturer, Department of Ecosystem Science and Management, Texas A&M University (September 2015). "Geodatabases" Level: Undergraduate
Graduate Teaching Assistant, Department of Ecosystem Science and Management, Texas A&M University (Fall 2015). Course: Advanced GIS for Natural Resource Management.

Professional Work Experience:

2014-2015 GIS Intern, City of College Station. College Station, TX.
2013, 2014 Forestry Intern, Weyerhaeuser Company. Natchitoches, LA; Broken Bow, OK.

Professional Organizations

Member - Association for Fire Ecology
Member – National Center for Faculty Development and Diversity

Conferences Attended

2016 3rd SW Fire Ecology Conference
2016 23rd Institute on Teaching and Mentoring, Tampa, FL
2016 17th Annual Ecological Integration Symposium. College Station, TX
2016 3rd Annual Association of Geography Graduate Students Symposium. College Station, TX
2014 Texas GIS Forum, Austin, TX.

Other Publications:

Newspaper Article. (April 2016). "Prescribed Burns: They're catching on." Gatesville Messenger.

Outreach & Service:

2016	Presenter – 2017 Science Olympiad Coaches Clinic, Texas A&M University
2016	Guest – 'Alex goes to college ep 3 – Chase Fire Ecologist', Podcast.
2016-2017	President – ESSM Graduate Student Association, Texas A&M University
2016	Exhibit Judge - Science and Engineering Fair of Houston, Houston, TX
2015-2016	Committee Member - ESSM Graduate Student Association, Texas A&M University
2013-2014	Executive Leader – Gen. T.G. Darling Recruiting Company, Texas A&M University.
2011-2013	Committee Member - Gen. T.G. Darling Recruiting Company, Texas A&M University.