Chase T. Brooke
Curriculum Vitae

Contact Information:

Ecosystem Science and Management   Email: Chase.Brooke14@AggieNetwork.com
Texas A&M University   Phone: (817) 965-6792
College Station, TX, 77845   Website: Ctbrooke.github.io
    Office: Centeq 215B

Education:

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

Manuscripts in Preparation:

Brooke, C.T., Rogers, W.E., Lafon, C., Lawing, A. M., 2017. "Precipitation controls on fire occurrence across the South-Central United States"

Brooke, C.T., Rogers, W.E., Lafon, C., Lawing, A.M. 2017 "The exclusionary effect of fire on fire occurrences in Texas."

Vaughan, M., **Brooke, C. T.**, Durick, H., Dwight, R., Hanson, A., Naito, A., Lafon, C. 2017. "Reconstructing the Past: A Dendrochronological Development of Fire Occurrence Across the Eastern United States."

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.**"**

Major Advisor: Dr. A. Michelle Lawing

Presentations:

2017   Presentation, Student Research Week. March 27. "The changing habitat of fire: Quantifying the impact of regionality on predicting wildland fire occurrence in Texas." College Station, TX.

2017   Presentation, 18th Annual Ecological Integration Symposium. March 24. "The habitat of fire: using species distribution models for predicting fire occurrence". College Station, TX.

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". Tucson, AZ.

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". Prairie View, TX.

2016   Presentation, Ecosystem Science and Management, Graduate Student Association Meeting. October 5. "Broader impacts: Communicating your research". College Station, TX.

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 Funding Awards (Total - $62,100):
2017-2018   Plant Sciences Fellowship, Michigan State University. - $56,000
2016   Ecosystem Science & Management Departmental Travel Grant - $500
2016   Association for Fire Ecology TREE Travel Grant - $700
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

Additional Awards and Recognition
2017   Outstanding Master's Student. Department of Ecosystem Science & Management, Texas A&M University.
2017   2nd Place Graduate Oral Presentation, 18th annual Ecological Integration Symposium. Texas A&M University. College Station, TX.
2016   1st Place, Master's Level Oral Presentation, Environmental Science, 2016 TAMU Pathways Student Research Symposium. Prairie View, TX.
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.

Teaching:
2017/2015   Graduate Teaching Assistant, Department of Ecosystem Science and Management, Texas A&M University. Course: Advanced GIS for Natural Resource Management.

2016   Graduate Teaching Assistant, Department of Entomology, Texas A&M University. Course: Big Bend Field Course

Service:
2017   ESSM Fire Science Faculty Search Committee, Texas A&M University

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.

Certifications:
2017   S130: Basic Wildland Firefighter Training (Current)
2017   S190: Introduction to Wildland Fire Behavior (Current)
2016   RX 310: Introduction to Fire Effects
2016   CIRTL Practitioner

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.

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

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
2016-2017   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.