

Courtney Giebink

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Ecology and Evolutionary Biology
University of Arizona

EDUCATION

University of Arizona

Adviser: *Dr. Margaret Evans*
Ecology and Evolutionary Biology
Masters Student

Tucson, AZ

Laboratory of Tree Ring Research
Fall 2018 – Present
GPA: 4.000/4.0

Relevant Coursework

- Ecological Forecasting
- Dendrochronology Intensive Summer Course
- Forest Ecology
- Advanced GIS
- Global Change
- Fundamentals of Ecology
- General Linear and Mixed Effect Models

University of Wisconsin-La Crosse

Major: Biology: Environmental Science Concentration
Minor: Statistics

La Crosse, WI

Fall 2013 – Spring 2017
GPA: 3.840/4.0

University of Cape Town

Faculty of Science: Biology

Cape Town, South Africa

Spring 2016

RESEARCH

Climate-sensitive stand-level growth and yield models

2018 - present

Adviser: *Dr. Margaret Evans*

- Created climate-sensitive, LMM version of a forestry growth and yield model using the information contained in tree-ring time series data.

Community responses to simulated climate change

2016 – 2017

PI: *Dr. Meredith Thomsen*

- Statistically analyzed data from a five-year study to determine how precipitation and nitrogen availability affect the biomass of several plant functional groups in a California prairie system

Ecosystem services assessment of University of Cape Town forest

Spring 2016

Adviser: *Dr. Lindsey Gillson*

Temperature-driven outbreak of waterfowl disease

2014 – 2015

PI: *Dr. Gregory Sandland & Dr. James Pierce*

- Collected data on the effect of temperature on parasite production, which was incorporated in an annual model of waterfowl disease through a temperature-dependent transmission parameter.

ORAL PRESENTATIONS

Nov 2019 Forest Inventory and Analysis Stakeholder Science Meeting
April 2019 Women in Data Science Lightning talk
March 2019 U. of Arizona Earth Week Lightning talk

TEACHING

Graduate Instructor

UA Sky School

Aug 2019 – Present

- Place-based and inquiry-based science education programs to K-12 students
- Dendrochronology and dendroecology outreach.

Teaching Assistant

University of Arizona

Aug 2018 – Present

- Conservation Biology
- Introduction to Ecology and Evolutionary Biology Lab
- Introduction to Global Change

Biology Tutor

University of Wisconsin-La Crosse

Feb 2015 – May 2017

Dr. Lee Baines

WORKSHOPS

Mar 2020 Container Camp: <https://learning.cyverse.org/projects/Container-camp-2020/en/latest/index.html>
Feb 2020 Machine Learning Literacy Workshop
Feb 2020 Introduction to Python
Jan 2020 Launching Your Career Symposium
Apr 2019 Women in Data Science
Feb 2019 Forest Vegetation Simulator Training
Nov 2018 Geospatial Data Carpentry in R: <https://cyverse-gis.github.io/2018-11-10-UA-Geospatial-Pilot/>
Oct 2018 Software/Data Carpentry: <https://u hilgert.github.io/2018-10-27-Tucson/>
June 2018 Navajo Forests Tour

SKILLS

Programming

- R and Rstudio
- Git and GitHub integration
- Linux, Bash
- Python

Software

- ArcGIS Pro
- Docker containers with automated builds using GitHub and Cyverse
- Tellervo, Open Data Kit (ODK) Collect, and Avenza Maps (field sampling)
- Microsoft Word, Microsoft Excel, PowerPoint, Outlook

HONORS & AWARDS

Spring 2019 College of Science Award in Teaching
Spring 2017 UWL Senior of the Year: Environmental Science Concentration
Fall 2016 Robert E. Lee Scholarship
Fall 2015 Charles and Lillian Gay Scholarship
Fall 2013 Kent Trust English Scholarship
Fall 2013 Wisconsin Academic Excellence Scholarship

PROFESSIONAL EXPERIENCE

Tumacácori National Historical Park

Tumacacori, AZ

Student Conservation Association & AmeriCorps Intern-*Roger Dorr* August 2017 – August 2018

- Invasive plant management, fish and wildlife monitoring, water quality testing, ground water monitoring.
- Lead park's dark sky designation.
- Science communication, including natural resource walks and a middle school science fair.

REFERENCES

Dr. Margaret Evans

Assistant Research Professor
margaret.ekevans@gmail.com

University of Arizona
Laboratory of Tree Ring Research
520.621.0778

Dr. R. Justin DeRose

Assistant Professor
rjustinderose@gmail.com

Utah State University
Ecology Center & Wildland Resource Department

Dr. John D. Shaw

Analyst
jdshaw@fs.fed.us

U.S. Forest Service
Forest Inventory and Analysis
801.598.5902

Roger Dorr

Archeologist
roger_dorr@nps.gov

Tumacácori National Historical Park
Chief of Resource Management
520.377.5090

Dr. Meredith Thomsen

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Dr. Lee Baines

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