

Noah Giebink

University of Arizona

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Researcher, Science communicator, Aspiring data scientist

Skills

Programming

R, PYTHON, BASH

Data Science

MACHINE LEARNING, STATISTICS, BAYES, DATA MINING, VISUALIZATION, GEOSPATIAL ANALYSIS, TIDYVERSE, PANDAS, SCIKIT-LEARN

Software & Version Control

LINUX, GIT, GITHUB, DOCKER, JUPYTER NOTEBOOKS, OFFICE, G SUITE

Education

University of Arizona

MASTER OF SCIENCE - INFORMATION

- GPA: NA

Tucson, AZ

Fall 2020 - Fall 2021 (expected)

University of Arizona

MASTER OF SCIENCE - ECOLOGY AND EVOLUTIONARY BIOLOGY

- GPA: 3.784

Tucson, AZ

Spring 2020

University of Wisconsin - La Crosse

BACHELOR OF SCIENCE - BIOLOGY, MINOR: PSYCHOLOGY

- GPA: 3.78

La Crosse, WI

2017

Research

UNIVERSITY OF ARIZONA

Augmenting a teachable robot with adaptive cognitive and social support

ROBOTICS, VIRTUAL REALITY, DATA ANALYSIS

2020

Unlocking big data for biodiversity research

MACHINE LEARNING, SPECIES DISTRIBUTION MODELS, COMMUNITY SCIENCE, ECOLOGY

2019 - 2020

Begonia intersexual floral mimicry

SIGNAL DETECTION THEORY, ANIMAL BEHAVIOR, LEARNING, BOTANY

2017 - 2019

Bioacoustics of floral sonication by bees

AUDIO PROCESSING, ACOUSTICS, BOTANY

2017

UNIVERSITY OF WISCONSIN - LA CROSSE

Honey bee sleep

INFRARED VIDEOGRAPHY, BEEKEEPING, ANIMAL BEHAVIOR

2016 - 2017

Teaching

UA Science: Sky School

INSTRUCTOR

Tucson, AZ

2019 - present

- Lead K-12 students in inquiry-based science programs and supervise groups of students' research projects. Explain technical content at different levels. Rapidly adapt to students' needs and interests. First instructor to design coding activities.

University of Wisconsin - La Crosse

La Crosse, WI

BIOLOGY TUTOR

2014 - 2017

- Improved college students' academic success by tutoring concepts, writing, presentations, data analysis, group work, study techniques. Promoted self-directed learning skills.

GRADUATE INSTRUCTOR

EVOLUTION

2019 - 2020

- Lead two weekly discussions, engage students with active learning style

ECOLOGY

2019

- Supervise field experiments, lead two weekly labs

ANIMAL BEHAVIOR

2017 - 2018

- Designed lab curriculum alongside primary instructor, created original lab activities

INTRODUCTORY BIOLOGY LAB

2018

- Lead two weekly labs

Workshops

CONTRIBUTED

UA Data Science Institute

SOFTWARE CARPENTRY WORKSHOP

February, 2020

- Volunteer helper; Git, Bash, Python, Jupyter Notebooks

ATTENDED

University of Arizona Libraries

INTRO TO PYTHON

September - December 2019

- Twice-weekly Python programming course

Botany 2019 Conference

USING DIGITIZED HERBARIUM DATA IN RESEARCH

July, 2019

- R programming for statistical modeling and geospatial analysis with biodiversity data

UA Data Science Institute

DATA CARPENTRY WORKSHOP

May, 2019

- Bash, R, cloud computing, data wrangling

Relevant Coursework

PROGRAMMING

Data Mining and Discovery (currently enrolled)

Statistical Natural Language Processing (currently enrolled)

R Programming (A)

Intro to Modeling in Biology (A)

MATH AND STATISTICS

Ecological Forecasting (A)

Elementary Statistics (A)

Quantitative Methods in Ecology (A)

AP Calculus (A)

Precalculus (A)

Awards

American Museum of Natural History

TRAVEL SCHOLARSHIP \$600

2019

Tucson Bee Collaborative

TRAVEL SCHOLARSHIP \$690

2019

Society for Ecological Restoration - Southwest

CAMPUS POLLINATOR GARDEN \$300

2019

UA Graduate & Professional Student Council

CONFERENCE TRAVEL \$750

2018

University of Arizona

RESEARCH STIPEND \$2,500

2017

University of Wisconsin - La Crosse

UNDERGRADUATE RESEARCH AND CREATIVITY GRANT \$2,000

2016

University of Wisconsin - La Crosse

DEAN'S DISTINGUISHED FELLOWSHIP \$4,000

2016

Publications

Russell, A.L., Kikuchi, D.W., **Giebink, N.W.**, & D.R. Papaj. (2020). Sensory bias and signal detection tradeoffs maintain intersexual floral mimicry. Philosophical Transactions B special issue.

De Luca, P. A., **Giebink, N.**, Mason, A. C., Papaj, D., & Buchmann, S. L. (2018). How well do acoustic recordings characterize properties of bee (Anthophila) floral sonication vibrations? Bioacoustics, 1–14.