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

Version Control

Git, GitHub

Software

Linux, Docker, Jupyter Notebooks

Education

University of Arizona — *Tucson, AZ*

Master of Science - Ecology and Evolutionary Biology — *Spring 2020 (expected)*

- GPA: 3.784

University of Wisconsin - La Crosse — *La Crosse, WI*

Bachelor of Science - Biology, minor: Psychology — *2017*

- GPA: 3.78

Research

University of Arizona

Unlocking big data for biodiversity research

Machine learning, species distribution models, community science — *2019*

Begonia intersexual floral mimicry

Signal Detection Theory, Learning — *2017 - 2019*

Bioacoustics of floral sonication by bees

Vibrometry, floral sonication — *2017*

University of Wisconsin - La Crosse

Honey bee sleep

sleep stages, infrared videography, beekeeping — *2016 - 2017*

Teaching

UA Science: Sky School — *Tucson, AZ*

Instructor — *2019 - present*

- Mentor 4-12 grade students in scientific research; first instructor to design coding activities

University of Wisconsin - La Crosse — *La Crosse, WI*

Biology Tutor — *2014 - 2017*

- Improved student learning outcomes by assisting with concepts, writing, presentations, data and statistics

Graduate Instructor

Evolution *2019 - 2020*

- Lead two weekly discussions, engage active learning in lecture

Ecology *2019*

- Lead two weekly labs, lead field experiments

Animal Behavior *2017 - 2018*

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

Introductory Biology Lab *2018*

- Lead two weekly labs

Workshops

Contributed

Bio5 and UA Data7

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

Bio5 and UA Data7

Data Carpentry Workshop *May, 2019*

- Bash, R, cloud computing, data wrangling

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.