Noah Giebink

University of Arizona

☐ +1 920 763 3784 | ✉ nwgiebink@gmail.com | ⌨ nwgiebink | in nwgiebink

Researcher, Science communicator, Aspiring data scientist

Skills

Programming

R, Python, Bash

Data Science

Machine learning, statistics, data mining, visualization, Bayes, geospatial analysis, Tidyverse, Pandas, Numpy, Scikit-learn, Pytorch

Software & Version Control

Linux, Git, Github, Docker, Jupyter Notebooks, Google Colab, Office, G Suite

Soft Skills

Technical communication, public speaking, self-directed learning, adaptability, creativity, empathy, supervision, teamwork

Education

University of Arizona   *Tucson, AZ*

Master of Science - Information   *Fall 2020 - Fall 2021 (expected)*

- GPA: 3.8

University of Arizona   *Tucson, AZ*

Master of Science - Ecology and Evolutionary Biology   *Spring 2020*

- 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

Biosemantics Research Group - research assistantship

Web Ontology, Bioinformatics, Botany   *2020*

Winslow Burleson lab - research internship

Neural networks, object detection, Pytorch, software development   *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   *Tucson, AZ*

Instructor   *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

ResBaz Tucson

The Research Bazaar   *May, 2020*
- Workshop instructor; title: Data Mining with Spotify; topics: API, data wrangling, machine learning

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

Data Science

Neural Networks
Data Mining and Discovery
Statistical Natural Language Processing
R Programming
Intro to Modeling in Biology
Ecological Forecasting
Elementary Statistics
Quantitative Methods in Ecology

Communication

Science Communication
Writing Tutor Practicum
Communicating Effectively

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.