

Noah Giebink

University of Arizona

✉ nwgiebink@gmail.com | [nwgiebink](https://www.linkedin.com/in/nwgiebink) | [nwgiebink](https://www.github.com/nwgiebink)

Data Scientist, Scientific Researcher, Insight Communicator

Skills

Programming

R, PYTHON, BASH

Data Science

MACHINE LEARNING, NEURAL NETWORKS, NATURAL LANGUAGE PROCESSING, COMPUTER VISION, IMAGE PROCESSING, USER INTERFACE (UI) DESIGN, DATA MINING, DATA CLEANING, BIG DATA, STATISTICS, BAYESIAN STATISTICS, GEOSPATIAL ANALYSIS, TIDYVERSE, PANDAS, NUMPY, SCIKIT-LEARN, PYTORCH, KERAS/TENSORFLOW

Software & Version Control

LINUX, GIT, GITHUB, DOCKER, JUPYTER NOTEBOOKS, GOOGLE COLAB, GOOGLE CLOUD PLATFORM, OFFICE, G SUITE

Education

University of Arizona

MASTER OF SCIENCE - INFORMATION

Tucson, AZ
Spring 2021 (expected)

University of Arizona

MASTER OF SCIENCE - ECOLOGY AND EVOLUTIONARY BIOLOGY

Tucson, AZ
Spring 2020

University of Wisconsin - La Crosse

BACHELOR OF SCIENCE - BIOLOGY, MINOR: PSYCHOLOGY

La Crosse, WI
2017

Experience

DATA SCIENCE AND CONSULTING

The Ecostructure Project

INDEPENDENT CONTRACTOR - DATA SCIENTIST

Virtual
Dec. 2020 - present

- Create web user interface in Shiny (R) appropriate for non-technical users to explore complex marine models with graphics and animations; leverage and wrangle big spatial data (>200 GB)

University of Arizona, Eller College of Management

MBA ADVANCED CONSULTING PROJECT - INTEL CORPORATION

Tucson, AZ
Aug. - Dec. 2020

- Identify future trends, competitive landscape, and recommend agile strategy for Intel Corporation in rapid growth, emerging technology market

RESEARCH

University of Arizona, Biosemantics Research Group

RESEARCH ASSISTANT

Tucson, AZ
Aug. 2020 - present

- Visualize complex relationships and terminology for bioinformatics web ontology; Develop automated image processing pipeline that significantly increased the efficiency and quality of our work; Analyze plant specimen measurements with machine learning and text mining tools to build custom color palette for UI

University of Arizona, Burleson Lab

RESEARCH INTERN

Tucson, AZ
May - Aug. 2020

- Train Pytorch computer vision models on custom data in a cloud/linux environment; develop image data pipelines in python and bash; assess cloud-based computing architectures; evaluate educational software written in Javascript.

University of Arizona, Prudic Lab

GRADUATE RESEARCHER

Tucson, AZ
2019 - 2020

- Predict the habitable ranges of pollinators using geospatial MaxEnt machine learning models trained on community science data from nonprofit partners

University of Arizona, Papaj Lab

Tucson, AZ

GRADUATE RESEARCHER

2017 - 2020

- Contribute conceptual strategy and research assistance in projects involving animal learning and cognition, plant-pollinator interactions, and bioacoustics; contribute writing and feedback to manuscripts

University of Wisconsin - La Crosse, Pupating Lab

La Crosse, WI

UNDERGRADUATE RESEARCHER

2016 - 2017

- Dean's Distinguished Fellow and Undergraduate Research and Creativity Grant recipient; captured and analyzed infrared video for animal behavior research; supervised and trained other undergraduate researchers

Forage Genetics International

West Salem, WI

RESEARCH TECHNICIAN

2014 - 2016

- Perform greenhouse alfalfa maintenance and cross pollinations for breeding program; process samples and measure protein content via near-infrared spectroscopy (NIRS); assist with disease resistance research

TEACHING

UA Science: Sky School

Tucson, AZ

INSTRUCTOR

2019-2020

- Mentor and lead teams of primary school students through cross-disciplinary, inquiry-based science projects; Teach hands-on data analysis and coding lessons

University of Arizona

Tucson, AZ

GRADUATE TEACHING ASSISTANT

2017 - 2020

- Design curriculum and lab activities; teach lab and discussion sections; engage students with active learning; supervise field trips

University of Wisconsin, La Crosse

La Crosse, WI

BIOLOGY TUTOR

2014 - 2017

- Promote student success in science, writing, presentations, group work, data and statistics, and study techniques. Empower self-directed learning through active learning approaches

Contributed Workshops

ResBaz Tucson

DATA MINING WITH SPOTIFY

May, 2020

- Workshop instructor; topics: API, data wrangling, machine learning

UA Data Science Institute

SOFTWARE CARPENTRY WORKSHOP

February, 2020

- Assistant; topics: Git, Bash, Python, Jupyter Notebooks

Relevant Coursework

PROGRAMMING

Bayesian Statistics
Neural Networks
Data Mining and Discovery
Statistical Natural Language Processing
R Programming
Intro to Modeling in Biology

MATH AND STATISTICS

Ecological Forecasting
Elementary Statistics
Quantitative Methods in Ecology
AP Calculus
Precalculus

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.

References

Keaton Wilson

DATA SCIENTIST AT MARTIN & MCCOY

- Partner in freelance project with Ecostructure and species distribution modeling research collaborator

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Hong Cui

PROFESSOR AT UNIVERSITY OF ARIZONA SCHOOL OF INFORMATION

- Research Assistantship supervisor and head of Biosemantics Research Group

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Gustavo de Oliveira Almeida

COORDINATOR OF SENSORLAB LABORATORY (HEALTHCARE TECHNOLOGY INNOVATION LAB)

- Research internship supervisor

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