

Noah Giebink

University of Arizona

✉ nwgiebink@gmail.com | 📷 nwgiebink | 🌐 nwgiebink

Aspiring Data Scientist, Scientific Researcher, Insight Communicator

Skills

Programming

R, PYTHON, BASH

Data Science

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

Software & Version Control

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

Education

University of Arizona

MASTER OF SCIENCE - INFORMATION

Tucson, AZ

Fall 2020 - Fall 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

Jan. 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 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; 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; Assess cloud-based computing architectures; Evaluate interactive, virtual blackboard-style learning 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

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

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 for honey bee sleep research with Dr. Barrett Klein

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.