CHRIS TALBOT | CV

Lab Technician in Ecology and Evolutionary Biology

Status: Lab Technician at the University of Michigan, Weber Lab
Fields: Ecology & Evolutionary Biology
Interests: Evolutionary ecology, global change, genetics, machine learning
Techs: R, Python, C++, Git, LaTeX, SLiM

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Summary

First-gen academic interested in patterns of ecological organization across spatiotemporal scales, the evolutionary drivers of those patterns, and how those patterns respond to global change. Fascinated with emerging methods for evaluating complex systems, especially using community science and machine learning. Experienced with lab, field, and computational work.

Education

B.S. Ecology, Evolution, and Biodiversity - University of Michigan (UMich) - GPA 3.74   2024

· Graduated with **Highest Honors** under the supervision of Marjorie Weber
· Honors Thesis: Patterns of floral color in communities of common Northeast American wildflowers
· Coursework: Statistics & probability, programming & data structures, genetics, macroevolution, ethnobotany

Associates of General Studies - Grand Rapids Community College (GRCC) - GPA 3.9   2020

· Computer Science & Mathematics Concentration
· Coursework: C++ programming, database development, web application programming, information security

Research

Lab Technician - Bradburd Lab - UMich-Ecology & Evolutionary Biology (EEB)   Starting 2024

Lab Technician - Weber Lab - UMich-EEB   2022-Present

· Project: "Patterns of floral color in communities of common Northeast American wildflowers"

Undergraduate Researcher - Márquez Lab - UMich-EEB   2021-2022

· Project: "Optimizing CRISPR-Cas9 genetic modification in *Phyllobates* poison-dart frogs"

Publications

In Preparation

Talbot, CA, Weber, MG. **2024.** Investigating patterns of floral color across Northeast American wildflowers using citizen science data.

Fellowships & Grants

Biological Station Student Fellow - UMich Biological Station ($1,680)   2023

Student Research Grant Recipient - UMich UROP ($5,000)   2022-2023

Biomedical & Life Sciences Summer Fellow - UMich UROP ($4,000)   2022

Community College Summer Institute Fellow - UMich-School of Information ($100)   2019

Teaching & Mentoring

Docent (Volunteer Educator) - Matthaei Botanical Gardens & Nichols Arboretum — 2023-Present

Forestry Test Writer & Proctor (Volunteer) - UMich Science Olympiad — 2023-Present

Director of Percussion - Lake Orion Community Schools, Lake Orion, MI — 2022-2023

Transfer Student Peer Mentor - UMich-LSA Transfer Bridges Program — 2022-2023

Director of Percussion - Spring Lake Public Schools, Spring Lake, MI — 2019-2022

Freelance Percussion Instructor & Composer - 8 school districts across Michigan — 2018-2022

Professional Peer Tutor - GRCC Drop-in Tutoring Labs - Mathematics, Language Arts — 2019-2020

Professional & Service

Co-Founder, President, and Volunteer - Students for Public Power @UM — 2023-Present

Shift Leader - Biggby Coffee, Grand Rapids, MI — 2021-2023

Seasonal Retail Lead - John Ball Zoo, Grand Rapids, MI — 2019

Presentations

Talk - Evolution 2024, Montreal, QC — Upcoming 2024

Poster - Botany 2024, Grand Rapids, MI — Upcoming 2024

Talk - UMich Department of Ecology & Evolutionary Biology — 2024
· "Do flowers of a color bloom together?"

Poster - UMich Undergraduate Research Opportunity Program (UROP) Symposium — 2022
· "Optimizing CRISPR-Cas9 genetic modification in *Phyllobates* poison-dart frogs"

Languages

English - Fluent — Native

R - Advanced — C1

German - Intermediate — B2

C++ - Intermediate — B2

Python - Intermediate — B1

Nishnaabemwin (Eastern Ojibwe) - Beginner — A1

Certifications

Certified Michigan Naturalist - Michigan State University Extension — 2024

Professional Memberships

Botanical Society of America - Student Member — 2024-Present

Society for the Study of Evolution - Student Member — 2022-Present

Extracurriculars

Founding Member - UMich Ecological Restoration Club — 2023-Present

Vice President - GRCC Programmers — 2019-2020

Ensemble & Section Leader, Performer - Genesis Percussion Ensemble — 2014-2020