GREG CHISM

I develop statistics and reproducible research curriculum as a Computational and Data Science Educator at the University of Arizona Data Science Institute, where my experience with image and video analysis and research ethics support my devotion to open science.

View this CV online with links at https://gchism.netlify.app /uploads/gchism_cv.pdf

EDUCATION

2022 2017

Ph.D., Entomology and Insect Science (minor EEB)

Tucson, AZ

University of Arizona

- · Advisor: Dr. Anna Dornhaus
- · Interdisciplinary research into how ant nest shapes affects how they
- · Considered the implications towards animal behavior and human architecture fields

2016 2014

B.S. Zoology

Santa Barbara, CA

University of California Santa Barbara

- · Advisors: Drs. Armand Kuris, Kevin Laugherty
- · Investigation into the food web of sandy beach arthropods
- · Graduated distinction within major (EEMB)

2014 2012

A.A. Biology

Redding, CA

Shasta Community College



RELATED WORK EXPERIENCE

Current 2022

Computational and Data Science Educator

Tucson, AZ

University of Arizona

- · Developing personalized open science and statistics curriculum in the R programming language
- · Motivating students to pursue careers in data science
- · Developing best open science practices in related research disciplines

2022 2021

CALS Data Science Ambassador

Tucson, AZ

University of Arizona

- · Provided data science consultations, resources, and referrals
- · Attended and assisted in R weekly workshops led by Dr. Jeffrey Oliver

2022 2021

Honors College Graduate Mentor

Tucson, AZ

University of Arizona

· Mentored and assisted nine undergraduate and graduate students towards developing competitive scholarship applications

CONTACT

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- nttps://github.com

/Gchism94

f https://gregchism.netlify .app/

in https://www.linkedin.com /in/greg chism b0185a222/

RELEVANT SKILLS

R
Biostatistics
Open Science
Bash
Python
HTML & CSS

Made with the R package pagedown.

The source code is available on github.com/Gchism94/cv.

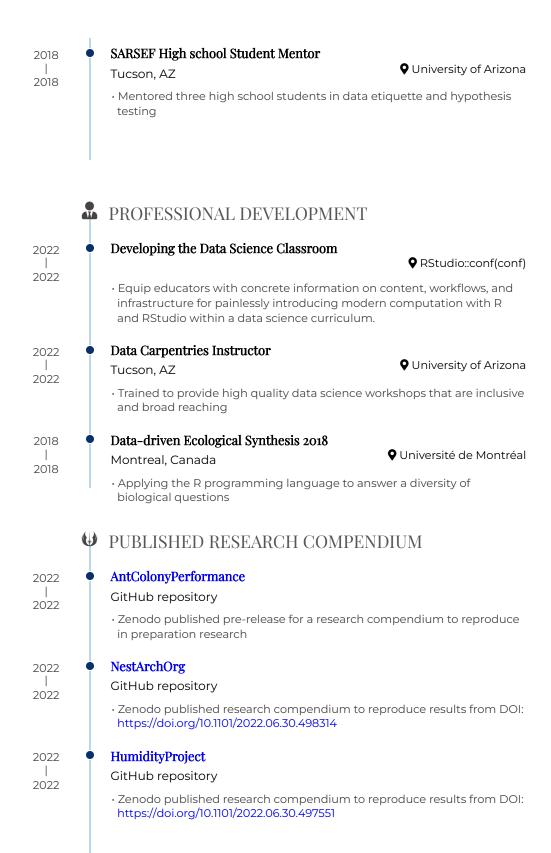
Last updated on 2022-08-10.

Graduate College Fellowship Application Mentor 2021 University of Arizona Tucson, AZ 2018 · Edited and mentored over 70 applicants for the NSF GRFP and other graduate fellowships • Three women in STEM applicants were awarded NSF GRFs · Contributed Graduate Student Spotlight article as an NSF GRF recipient ♣ TEACHING AND MENTORSHIP Research Compendium using GitHub and RStudio 2022 Our University of Arizona Tucson, AZ 2022 · Created and taught a workshop series on reproducuble research compendium using GitHub and RStudio **Exploratory Data Analysis in R Workshop Series** 2022 University of Arizona Tucson, AZ 2022 · Created and taught a workshop series on exploratory data analysis using the dlookr R package. GitHub: https://gchism94.github.io/Data7_EDA_In _R_Workshops/ 2022 **KEYS Program Educator** University of Arizona Tucson, AZ 2022 · Created and implemented an interactive Open Science Curriculum and taught introductory R/RStudio **Undergraduate Research Mentor** 2020 University of Arizona Tucson, AZ 2018 · Dornhaus lab: nine students mentored in producing publication quality • Two students are coauthors on publications 2019 **Insect Discovery Teaching Assistant** University of Arizona Tucson, AZ 2018 • Taught insect science K-8 title I students through four on-campus workshops · Gave on-site interactive demonstrations on insect science at the Flandrau Planetarium **KEYS High school student Mentor** 2019 University of Arizona Tucson, AZ 2019

· Mentored an advanced high school student in data etiquette and

hypothesis testing

I am passionate about open science education. I believe that learning should be student focused, highlighting their stories, experiences, and backgrounds.



= PUBLICATIONS

2022 2022 Nest shape influences colony organization in ants: spatial distribution and connectedness of colony members differs from that predicted by random movement and is affected by nest space

bioRxiv Preprint

· Coauthored with Nichols, W., and Dornhaus A.

2022 2022 Temnothorax rugatulus ants do not change their nest walls in response to environmental humidity

bioRxiv Preprint

· Coauthored with Faron W., and Dornhaus A.

2021 2021 A hymenopteran odorant alerts flies to bury eggs

bioRxiv Preprint

· Coauthored with Davis, S. M., Maurer, M. M., Trejo, J. E., Garcia, R. J., & Schlenke, T. A.

2020 2020 ABCTracker: an easy-to-use, cloud-based application for tracking multiple objects

arXiv Preprint

· Coauthored with Rice, L., Tate, S., Farynyk, D., Sun, J., Charbonneau, D., ... & Shin, M. C.

2017 2017

Intraindividual behavioral variability predicts foraging outcome in a beach-dwelling jumping spider

Scientific reports

· Coauthored with Lichenstein, J.L.L, Pruitt J.N.



PUBLISHED DATASETS

2022 2022 Zenodo data repository for DOI: https://doi.org/10.1101/2022.06.30.498314 Zenodo dataset

· Nest shape influences colony organization in ants: spatial distribution and connectedness of colony members differs from that predicted by random movement and is affected by nest space (1.0.0) [Data set]. Zenodo. https://doi.org/10.5281/zenodo.6784395

2022 2022 Zenodo data repository for DOI: https://doi.org/10.1101/2022.06.30.498314 Zenodo dataset

· Temnothorax rugatulus ants do not change their nest walls in response to environmental humidity (1.0.0) [Data set]. Zenodo. https://doi.org/10 .5281/zenodo.6780270

I have made meaningful contributions to my research community. Now I work to help others make a difference in their research communities and society.

OUTREACH AND SERVICE ResBaz Arizona 2022 2022 Tucson, AZ 2022 · Co-chair of ResBaz AZ 2022 organizational committee. 2022 **Insect Discovery Website** Tucson, AZ 2022 · Designed content for the Insect Discovery website, hosted by the UArizona Extension Program ☐ PRESENTATIONS How nest shapes can influence colony level organization 2021 Small intercontinental lab meet-up on colony organization and nest 2021 architecture in social insects · Invited talk Nest architecture may influence ants the same was buildings influence 2019 humans 2019 Advances in Complex Systems: From Ecology to Economics - Lake Como School of Adv. Studies · Invited talk The influence of nest architecture on colony level organization in ants 2019 UArizona SIAM Seminar series 2019 · Invited talk SELECTED AWARDS **Carruth Award for Graduate Student Excellence** 2021 2021 . \$500 GIDP - EIS Program Education Award 2020 2020 . \$250 NSF Graduate Research Fellowship, Award Accepted 2019 2019 . \$300,000