# **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

- **☑** gchism@arizona.edu
- A https://github.com

/Gchism94

f https://gregchism.netlify .app/

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

## RELEVANT SKILLS

Made with the R package pagedown.

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

Last updated on 2022-07-30.

2021 2018

## **Graduate College Fellowship Application Mentor**

Tucson, AZ

University of Arizona

- · 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

2020 2018

**Undergraduate Research Mentor** 

Tucson, AZ

University of Arizona

- · Dornhaus lab: nine students mentored in producing publication quality
- · Two students are coauthors on publications

2019 2018

## **Insect Discovery Teaching Assistant**

Tucson, AZ

University of Arizona

- 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

2019 2019

#### **KEYS High school student Mentor**

Tucson, AZ

University of Arizona

· Mentored an advanced high school student in data etiquette and hypothesis testing

2018 2018

## SARSEF High school Student Mentor

Tucson, AZ

University of Arizona

· Mentored three high school students in data etiquette and hypothesis testing



## PROFESSIONAL DEVELOPMENT

2022 2022

### Developing the Data Science Classroom

RStudio::conf(conf)

· Equip educators with concrete information on content, workflows, and infrastructure for painlessly introducing modern computation with R and RStudio within a data science curriculum.

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



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

ABCTracker: an easy-to-use, cloud-based application for tracking 2020 multiple objects 2020 arXiv Preprint · Coauthored with Rice, L., Tate, S., Farynyk, D., Sun, J., Charbonneau, D., ... & Shin, M. C. Intraindividual behavioral variability predicts foraging outcome in a 2017 beach-dwelling jumping spider 2017 Scientific reports · Coauthored with Lichenstein, J.L.L, Pruitt J.N. PUBLISHED DATASETS Zenodo data repository for DOI: https://doi.org/10.1101/2022.06.30.498314 2022 Zenodo dataset 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 (1.0.0) [Data set]. Zenodo. https://doi.org/10.5281/zenodo.6784395 Zenodo data repository for DOI: https://doi.org/10.1101/2022.06.30.498314 2022 Zenodo dataset 2022 · 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 ☐ 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

