Christopher Hamm

Data Scientist

Carmichael, CA 95608
USA
✉ *butterflyology@gmail.com*
🖥 *butterflyology.github.io*

Education

2012	**PhD**, *Michigan State University*, *Entomology*.
2012	**PhD**, *Michigan State University*, *Ecology, Evolutionary Biology & Behavior*.
2008	**MS**, *California State University, Fresno*, Biology.
	With Distinction
2004	**BS**, *California State University, Fresno*, Biology.
	Magna Cum Laude

Experience

Vocational

2018–Present Data Science Training Lead, *Bayer - Crop Science*.

Naveen Singla, supervisor
Achievements:
- Develop, promote, and distribute best practices curriculum for enterprise data scientists
- Organize, coordinate, and teach data fluency workshops
- Develop proprietary curriculum for company specific workflows
- Create and implement strategic vision to improve company-wide data fluency
- Create neural network forecasting models

2017–2018 Data Scientist, *Monsanto Company*.

Shawn L. Stricklin, supervisor
Achievements:
- Developed and implemented a program to simulate the vegetable breeding pipeline
- Implemented predictive modeling to predict genotype sample submission frequency
- Organized and coordinated Software Carpentry and Instructor Training workshops
- Created gradient boosted regression model to identify disease susceptible genotypes
- Provided *ad hoc* statistical support

2016–2017 Postdoctoral researcher, *University of California, Davis*.

C. Titus Brown, supervisor.
Achievements:
- Oversaw development and deployment of Reproducible Research with R lessons for the Data Carpentry Foundation

2014–2016   **Postdoctoral scholar**, *University of Kansas*.
James R. Walters, supervisor.
Achievements:
- Developed tools to analyze large empirical and simulated molecular datasets
- Implemented and interpreted complex statistical modeling on ecological and genomic data, including differential expression analysis
- Formalized novel statistical models to describe bacterial infection frequency while correcting for relatedness

2012–2014   **Postdoctoral researcher**, *University of California, Davis*, Davis, California.
David J. Begun and Michael Turelli, supervisors.
Achievements:
- Coordinated multi-laboratory effort to assess the use of a bacterial infection to control an invasive insect
- Executed comparative genomic analysis of invasive species
- Created bioinformatics pipeline to import, trim, and map genomic data

Statistical methods

Deep learning in `R` & `Python` using `Keras` and `TensorFlow`

Linear and mixed-effects models in `R`

Forecasting with ARIMA and `prophet`

Hierarchical modeling and inference in `R` and `stan`

Computer skills

Data analysis	`R`, `Python`, `SQL`
Reproducibility	`RMarkdown`, LaTeX
Version control	`git`, `GitHub`
Other	`BASH`