Christopher Hamm

Data Scientist

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Education

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

Experience

Vocational

Data Science Training Lead, Monsanto Company. 2018-Present Naveen Singla, supervisor

Achievements:

- Organized and coordinated Software Carpentry and Instructor Training work-
- Develop proprietary curriculum for company specific workflows
- o Implement strategic vision to improve company-wide data fluency

Data Scientist, Monsanto Company.

PhD, Michigan State University, Entomology.

2017-2018

2012

Shawn L. Stricklin, supervisor

Achievements:

- Organized and coordinated Software Carpentry and Instructor Training work-
- Developed and implemented a program that simulated the breeding pipeline
- Implemented predictive modeling for sample submission to genotyping laboratory, which increased efficiency of submission coordinator
- 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

Postdoctoral scholar, *University of Kansas*.

James R. Walters, supervisor.

Achievements:

- Developed tools to analyze large empirical and simulated molecular datasets
- o 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.

Postdoctoral researcher, University of California, Davis, 2012-2014 Davis, California.

David J. Begun and Michael Turelli, supervisors.

Achievements:

- Coordinated multi-laboratory effort to assess the use of bacterial infection for control of an invasive insect
- Executed comparative genomic analysis of invasive species
- Created bioinformatics pipeline to import, trim, and map genomic data

Statistical methods

Linear and mixed-effects models in R Forecasting with ARIMA and prophet Machine learning in R & Python using Keras and TensorFlow Hierarchical modeling and inference in R and stan

Computer skills

Data analysis: R, SQL

Reproducibility: RMarkdown, LATEX General programming: Python Version control: git, GitHub

Other: BASH