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, Bayer Crop Sciences. 2018–Present

Naveen Singla, supervisor

Achievements:

- Develop, promote, and distribute best practices curriculum for enterprise data scientists
- o Organize, coordinate, and teach data fluency workshops

PhD, Michigan State University, Entomology.

- Develop proprietary curriculum for company specific workflows
- Create and implement strategic vision to improve company-wide data fluency
- Provide ad hoc statistical support

Data Scientist, Monsanto Company.

2017-2018

2012

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

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