



## EXPERIENCE



### Data Scientist Boston Consulting Group - Gamma

Boston, MA · March 2019+

- Built PySpark productionalized ensemble logistic regression model (>85% accuracy) for assessing risk in commercial customers of a Fortune 500 Financial Institution
- Implemented repository logging and error handling for an automotive manufacturer's inventory intelligence software
- Lead theory and methodology workshops for client teams



### Data Science Fellow Insight Data Science

Remote Program · September 2018 - March 2019

- Launched **National Perks Project** to improve visitor experience in crowded National Parks
- Leveraged large National Park Service, NOAA, & web-scraped datasets to forecast crowds (FB Prophet and ARIMA models) & weighted user preferences with euclidean distance for personalized experience
- Built a customized web app using Git, Python, Flask, & Heroku providing visitors with an actionable recommendation & access to further resources



### USDA NIFA Predoctoral Fellow Colorado State University

Fort Collins, CO · January 2017 - December 2018

- Designed **Blue Grama Diversity Project** to inform natural area stakeholders about genetic diversity in a foundational prairie grass, blue grama
- Pioneered genomic feature detection (sequencing) of a key grass species, discovering >9,000 genomic features to cluster populations & guide conservation from 15GB of data
- Modeled hierarchical linkages between genomics, populations, & plant appearance, developed analytical workflows using R and RStan, & communicated genetic clusters in ggplot+shiny app
- Facilitated 6-member team collaboration for a large-scale project



### Doctoral Researcher Colorado State University

Fort Collins, CO · August 2013 - December 2016

- Discovered diversity within key prairie grasses in response to drought to guide management of grassland resources
- Optimized analytics pipeline for genes & contrasted fluctuation of >100,000 genes under different conditions using bash scripts
- Quantified predictive relationships among plant, traits, & ecosystem by implementing trait feature reduction, Bayesian hierarchical models, path analysis, module clustering, literature data mining, linear regression, & meta-analysis in R, leading to domain innovation

## EDUCATION



### PhD · Ecology · Colorado State University

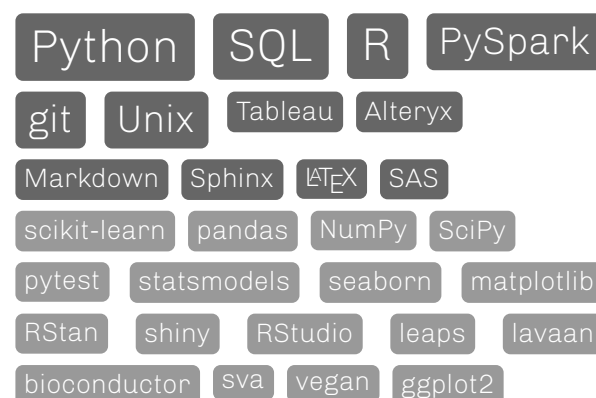
Fort Collins, CO · May 2019



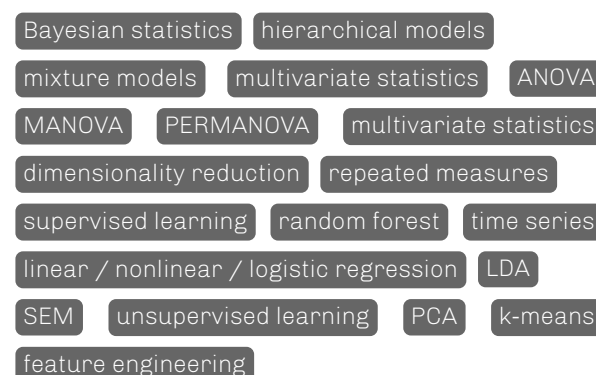
### BS · Biology · University of Virginia

Charlottesville, VA · May 2012

## TOOLS & PACKAGES



## TECHNIQUES



## ACHIEVEMENTS



### Sustainability Leadership Fellow

Colorado State University · 2017-2018



### Vice President for Research Fellow

Colorado State University · 2016-2017

**14 peer-reviewed publications**