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| Randi H Griffin  Boston, MA  617-548-2608 | [rgriff23@gmail.com](mailto:rgriff23@gmail.com) | <https://rgriff23.github.io> | <https://github.com/rgriff23> | [www.linkedin.com/in/randigriffin](http://www.linkedin.com/in/randigriffin) |  |
| SKILLSLanguages: Python (pandas, scikit-learn, matplotlib, seaborn); R (ggplot2, tidyverse, caret); SQL; HTML/CSSStatistics: Generalized linear models, survival analysis, multivariate statistics, meta-analysis, hypothesis testingMachine learning: Classification, regression, clustering, feature engineering, NLP, dimension reduction (e.g., PCA)Tools & techniques: git, Bash, R Markdown, Jupyter, web scraping, data visualization, simulation, survey dataEXPERIENCEKAYAK Software Corporation, *Data Scientist (Performance Marketing)* Cambridge, MA, Nov 2018 *–* PresentInsight Data Science, *Data Science* *Fellow* Boston, MA, Sep 2018 *–* Nov 2018Developed a logistic regression pipeline in Python to predict which users will subscribe to a babysitting app.Generated novel features by geocoding 4K user addresses and linking them with geospatial census data.Built a dash app that allows the company to estimate the probability that new users will subscribe.Duke University, *NSF* *Graduate Research Fellow* Durham, NC, Sep 2013 – 2018Implemented multivariate GLMs in R to model 3D point clouds derived from CT scans to identify ecological predictors of skull morphology.  * Designed computer simulation studies to evaluate two new statistical methods for estimating ancestral states in evolutionary biology, demonstrating that the methods performed far less effectively than several alternatives.  Wrangled 10 years of longitudinal data and used Cox survival models to provide the first demonstration that tapeworms can reduce mortality in wild primates.Demonstrated fine-scale habitat segregation in mosquito communities using GLMMs and PCA, providing a recommendation of <20 meters for the minimum resolution of spatial data in mosquito-borne disease models.Harvard University, *Research assistant* Cambridge, MA, Sep 2011 – 2013Maintained and queried a MySQL database with ~20K records of parasites reported in wild mammals.  * Performed formal meta-analysis of 14 published studies and 164 effect sizes, with results contradicting the popular claim that elevated parasite loads in wild animals are driven by human-caused habitat disturbance. * Simulated pathogen transmission on social networks and identified network characteristics (clustering, centrality) that increase susceptibility to epidemic and endemic pathogens.  PROJECTS‘btw’ R package: R wrapper for BayesTraits, an executable C++ program for fitting Bayesian phylogenetic models. <https://github.com/rgriff23/btw>Web scraping Olympic history data: Scraped and wrangled data on 135k Olympians from [www.sports-reference.com](http://www.sports-reference.com). This dataset has been downloaded >10k times (top 0.3%) on Kaggle as of Sep, 2018. <https://github.com/rgriff23/Olympic_history>Twitterstorm analysis: Compiled data on 4.5k users and 5k tweets in a politically-charged Twitterstorm, then used social network and sentiment analysis to identify liberal and conservative clusters. <https://github.com/rgriff23/Katie_Hinde_Twitter_storm_text_analysis>StackOverflow developer survey analysis: Identified relationships between age, gender, and sexual orientation that influence feelings of membership in the programming community. This analysis won a $1000 Kaggle Kernel Award in June 2018. <https://www.kaggle.com/heesoo37/stack-overflow-2018-survey-age-gender-sexuality>EDUCATIONPh.D. in Evolutionary Anthropology, Duke University May 2018B.A. in Human Evolutionary Biology, Harvard University May 2010 |  |