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| Randi H Griffin, Ph.D.  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 – R (ggplot2, tidyverse, caret), Python (pandas, scikit-learn, matplotlib, seaborn, dash); prior experience with MySQL, HTML/CSSStatistics - Generalized linear models, survival analysis, multivariate statistics, meta-analysis, hypothesis testingMachine learning - Classification, regression, clustering, feature engineering, NLP, validationTools & techniques - git, Bash, R Markdown, Jupyter, web scraping, data visualizationWORK EXPERIENCEInsight Data Science – *Fellow & Consultant for Datenight Babysitting App,* Boston, MA, Sep 2018 *–* PresDeveloped predictive models for user subscriptions and bookings for the Datenight Babysitting App.Worked closely with CEO to compile and process data on users from a MySQL database.Generated features by geocoding 4K user addresses and linking them with socioeconomic and demographic data from the Canadian Census.Duke University – *NSF* *Graduate Research Fellow,* Durham, NC, Sep 2013 – 2018Implemented multivariate GLMs to model 3D point clouds derived from 122 microCT scans of primate skulls 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 new methods perform far less effectively than several alternatives.  Performed survival analysis on 10 years of longitudinal data to demonstrate substantial health costs of tapeworm infections in wild monkeys.Demonstrated fine-scale habitat segregation (< 20m) in mosquito communities using GLMMs and PCA.  * Instructed graduate students and faculty on data analysis at an annual workshop (2013-2015); lectured and led discussion groups for three undergraduate courses; and supervised one undergraduate thesis project.  Harvard University – *Research assistant,* Cambridge, MA, Sep 2011 – 2013Maintained and queried a MySQL database with ~20K records of parasites reported in wild mammals.  * Performed meta-analysis of 14 studies and 164 effect sizes, with results indicating that parasite infections in wild primates are not 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>EDUCATIONDuke University, *PhD in Evolutionary Anthropology* — May 2018Harvard University, *BA in Human Evolutionary Biology* — May 2010 |  |