|  |  |
| --- | --- |
| Randi H Griffin  I’m a Data Scientist with a background in marketing and the social sciences and biology. I’m passionate about crafting creative yet practical solutions to problems and committed to fostering inclusive and collaborative team environments.  [rgriff23@gmail.com](mailto:rgriff23@gmail.com) | <http://www.randigriffin.com/> | <https://github.com/rgriff23> | [www.linkedin.com/in/randigriffin](http://www.linkedin.com/in/randigriffin) |  |
| SKILLSProgramming: Python (pandas, scikit-learn, matplotlib); R (tidyverse, caret), SQLStatistics: Generalized linear models, survival analysis, time series, network analysis, meta-analysisMachine learning: Classification, regression, clustering, forecasting, feature engineering, NLPOther tools & techniques: git, docker, bash, Airflow, R Shiny, dashEDUCATIONPh.D. in Evolutionary Anthropology,Duke University May 2018B.A. in Human Evolutionary Biology,Harvard University May 2010PROFESSIONAL EXPERIENCEBoston Consulting Group, *Senior* *Data Scientist (GAMMA)*  Boston, MA, Apr 2021 *–* PresentKAYAK Software Corporation, *Data Scientist (Marketing)* Cambridge, MA, Nov 2018 *–* 2021Developed predictive model of keyword revenue-per-click to support search ads algorithms, with accuracy gains yielding in a 300% increase in traffic and revenue for a given cost.Developed a counterfactual experimentation (XP) framework using Causal Impact to select optimal treatment and control markets for future XPs, and to measure lift and significance of completed XPs.Developed a 90-day LTV forecasting system and dashboard used for budgeting and target setting.Developed and maintained ETLs to support marketing algorithms and reporting tasks.Stand Up America, *Data Consultant (contract)* Remote, Oct 2020 *–* Dec 2020Conducted analysis of marketing campaigns which earned an Expy Award from the Analyst Institute.Built Periscope dashboards to track Get Out the Vote initiatives for the 2020 presidential election.Insight Data Science, *Data Science* *Consultant* Boston, MA, Sep 2018 *–* Nov 2018Built a dash app for a babysitting service that automatically geocodes user addresses, links them with census data, and estimate the probability that new users will subscribe to the app.Duke University, *NSF* *Graduate Research Fellow* Durham, NC, Sep 2013 – 2018Used multivariate GLMs to identify ecological predictors of primate skull shape based on CT scans.Conducted simulation studies to evaluate statistical methods for reconstructing ancestral states.Used survival models to quantify parasite-mediated mortality in wild primates.Demonstrated fine-scale habitat segregation in mosquito communities using GLMMs and PCA, recommending <20 meters minimum resolution of spatial data in mosquito-borne disease models.Harvard University, *Research assistant* Cambridge, MA, Sep 2011 – 2013Performed meta-analysis of 14 published studies and 164 effect sizes to test and reject the 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.INDEPENDENT PROJECTSScraping Olympic history: Scraped data on 135k Olympians and shared analysis on Kaggle (>66K downloads as of Apr, 2021). https://www.kaggle.com/heesoo37/olympic-history-data-a-thorough-analysisTwitterstorm analysis: Used social network and sentiment analysis to identify political clusters in a Twitterstorm (4.5k users, 5k tweets). <https://github.com/rgriff23/Katie_Hinde_Twitter_storm_text_analysis>StackOverflow survey: Won $1000 Kaggle Award for analysis of Stack Overflow inclusion and ethics survey. <https://www.kaggle.com/heesoo37/stack-overflow-2018-survey-age-gender-sexuality>OPEN SOURCE CONTRIBUTIONSParsons: ETL connectors to integrate NGPVAN with other data sources commonly used by progressive political organizations: https://github.com/move-coop/parsons/commits?author=rgriff23‘btw’ R package: R wrapper for the BayesTrait modeling software. <https://github.com/rgriff23/btw>UNIVERSITY TEACHING **Northeastern University**, *Lecturer (Masters in Analytics)* Boston, MA, Feb 2019 *–* Present Capstone Course (2 semesters): In each semester, I managed 6 teams of 5 students as they complete an analytics project for a sponsoring company.Developed Surveys and Guidelines to be used by all Analytics Capstone Courses to aid the formation of balanced project teams at the start of the semester and the collection of useful peer-feedback at the end of the semester.Data Mining in R (3 quarters): Developed original materials and received excellent teacher ratings.PEER-REVIEWED PUBLICATIONS Fox, S.D., **Griffin, R.H.**, Pachankis, J.E. 2020*.* Minority Stress, Social Integration, and the Mental Health Needs of LGBTQ Asylum Seekers in North America. *Social Science & Medicine,* 246, 112727.  Schneider-Crease, I.A., **Griffin, R.H.**, Gomery, M.A., Bergman, T.J., and J.C. Beehner. 2017. High mortality associated with parasitism in geladas (Theropithecus gelada) in the Simien Mountains National Park, Ethiopia. American Journal of Primatology, 79(9).  Schneider-Crease, I.A., **Griffin, R.H.**, Dorny, P., Noh, J.C., Handali, S., Chastain, H.M., Wilkins, P.P., Nunn, C.L., Snyder-Mackler, N., Beehner, J.C., and T.J. Bergman. 2017. Identifying wildlife reservoirs of neglected taeniid tapeworms: non-invasive diagnosis of endemic Taenia serialis infection in wild primates. PLOS Neglected Tropical Diseases, 11(7): p.e0005709.  **Griffin, R.H.**, and G.S. Yapunich. 2017. A critical comment on the ‘multiple variance Brownian motion’model of Smaers et al. (2016). Biological Journal of the Linnean Society, 121(1): 223-228.  Reiskind, M., **Griffin, R.H.**, Janairo, M.S., and K.A. Hopperstad. 2016. Mosquitoes of Field and Forest: The Scale of Habitat Segregation in a Diverse Mosquito Assemblage. Medical & Veterinary Entomology, 31(1): 44-54.  **Griffin, R.H.**, and G.S. Yapuncich. 2015. The Independent Evolution method is not a viable phylogenetic comparative method. PLoS ONE 10(12): e0144147.  Coburn, R.A., **Griffin, R.H.**, & S.D. Smith. 2015. Genetic basis for a rare floral mutant in an Andean species of Solanaceae. American Journal of Botany 102(2): 264-272.  Young, H., **Griffin, R.**, Wood, C.L., and Nunn, C.L. 2013. Does habitat disturbance increase infectious disease risk for primates? Ecology Letters, 16(5): 656-663.  Cooper, N., **Griffin, R.**, Franz, M., Omotayo, M., and Nunn, C.L. 2012. Phylogenetic host specificity and understanding parasite sharing in primates. Ecology Letters 15(12): 1370-77. [Science Daily press release](https://www.sciencedaily.com/releases/2012/08/120827122321.htm)  **Griffin, R.H.**, Matthews, L.J., and Nunn, C.L. 2012. Evolutionary Disequilibrium and Activity Period in Primates: A Bayesian Phylogenetic Approach. American Journal of Physical Anthropology 147:409-416.  **Griffin, R.H.** and Nunn, C.L. 2011. Community structure and the spread of infectious disease in primate social networks. Evolutionary Ecology 26(4): 779-800.   ATHLETIC ACHIEVEMENT & COACHING **South Korean 2018 Olympic Team and Women’s Ice Hockey National Team Player, 2015-2018.** <https://today.duke.edu/2018/03/duke-olympian-will-soon-defend-her-phd>  **Harvard Women’ Ice Hockey, 2006-2010.** ECAC Student-Athlete of the Year Finalist, 2010.  **USA Hockey Certified Coach.** Four years of training and coached youth teams aged 12-19. |  |