

Randi Griffin

Department of Evolutionary Anthropology at Duke University
130 Science Drive

Biological Sciences Bldg 107

Durham, NC 27708

Website: <http://rgriff23.github.io/>

E-mail: rgriff23@gmail.com

Education

Duke University	Ph.D. program in Evolutionary Anthropology	2013-pres
Harvard University	BA Human Evolutionary Biology- <i>cum laude</i> , Highest honors in field	2010

Work experience

<i>Research Technician</i> : comparative biology and disease ecology, with Dr. Charles L. Nunn at Harvard University	2011-13
<i>Research Technician</i> : evolutionary genetics with Dr. Stacey D. Smith at the University of Nebraska-Lincoln	2010-11
<i>Research Assistant</i> : evolutionary genetics of birds and relatives, with Dr. Scott Edwards at Harvard University	2008

Grants & fellowships

NSF Graduate Research Fellowship- \$102,000 over 3 years	2015
Graduate School of Duke University Summer Research Fellowship- \$5500	2014, 2015
James B. Duke Fellowship- \$20,000	2013
Ecology and Evolution of Infectious Disease 10 th Annual Workshop, Tuition and travel support provided by NSF- \$1000	2012
Harvard Initiative for Global Health Summer Undergraduate Research Fellowship- \$4500	2009

Technical skills

Programming and software: proficiency with R, R Markdown, and GitHub; experience with UNIX, MySQL, Perl, Mathematica, MatLab, LaTeX, and HTML

Data analysis and modeling: Generalized linear models, multivariate statistics, individual-based models, Markov models, Monte Carlo methods, network analysis, geographic information systems

Molecular biology: Sanger sequencing, RNAseq, Mesquite, MacClade

Field work: Mosquito trapping with CO₂ baited CDC light traps, mosquito identification based on morphological characteristics

Publications

Reiskind, M., **Griffin, R.H.**, Janairo, M.S., and K.A. Hopperstad. *In review*. Mosquitoes of Field and Forest: The Scale of Habitat Segregation in a Diverse Mosquito Assemblage. *Ecological Applications*.

Griffin, R.H., and G.S. Yapuncich. *In review*. The Independent Evolution method is not a viable phylogenetic comparative method. *PLoS ONE*.

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: 171-172.

Young, H., **Griffin, R.**, Wood, C.L., and Nunn, C.L. 2013. Does habitat disturbance increase infectious disease risk for primates? *Ecology Letters*, 16:656-663.

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: 1370-77

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* 26:779-800.

Conference presentations

Griffin R.H. & Nunn C.L. (2012). How does mating skew affect STD prevalence in multi-male multi-female mating systems? Poster presented at 2012 Ecology and Evolution of Infectious Disease 10th Annual Conference.

Griffin R.H. & Nunn C.L. (2011). Community structure and the spread of infectious disease in primate social networks. Poster presented at 2011 American Association of Physical Anthropologists.

Peer review

Journals: Evolution; Functional Ecology; Adaptive Behavior

Granting agencies: Leaky Foundation

Books: Modern phylogenetic comparative methods and their application in evolutionary biology: concepts and practice (2014)

Teaching and mentorship

Teaching Assistant: Primate Sexuality (Duke) Spring 2015

Senior undergraduate thesis mentor: Sania Rahim, senior in Evolutionary Anthropology (Duke), completed honors thesis on ecological predictors of parasitism in North American squirrels 2014-2015

Teaching Assistant: Human Health in Evolutionary Perspective (Duke) Fall 2014

Instructor: AnthroTree Workshop on phylogenetic comparative methods (Durham, NC); taught module “Phylogenetic generalized least squares, phylogenetic signal, and maximum likelihood” 2014

Teaching Assistant: Introduction to Evolutionary Anthropology (Duke) Spring 2014

Instructor: AnthroTree Workshop on phylogenetic comparative methods (Amherst, MA); taught module “Continuous character evolution in R and BayesTraits” 2012

Teaching Assistant: Life Sciences 1b: Genetics, Genomics & Evolution (Harvard) Spring 2010

<i>Undergraduate Peer Tutor:</i> organic chemistry, introductory statistics, and genetics (Harvard)	2008-10
--	---------

Science outreach

<i>Coach:</i> BOOST (Building Opportunities and Overtures in Science and Technology) program aimed at encouraging underrepresented minorities and girls in Durham public schools to pursue careers in science and engineering	2015-pres
---	-----------

<i>Organizer:</i> R Hour- a weekly R help session	2012-pres
---	-----------

<i>Volunteer:</i> Triangle SciTech Expo at NC Museum of Natural Sciences	2013
--	------

<i>Volunteer:</i> Science Under the Stars at Duke University	2013
--	------

<i>Volunteer:</i> Sunday with a Scientist at Nebraska State Museum	2011
--	------

<i>Volunteer:</i> Albert Einstein Science Conference: Advancing Minorities and Women in Science, Engineering and Mathematics at Harvard University	2010
--	------

Athletics and youth sports leadership

Youth Sports Leadership

USA Hockey Level 4 Coach- have coached boys and girls youth hockey teams of all ages, with organizations including the Lincoln Stars (NE), Cambridge Falcons (MA), and Carolina Lightning (NC)	2010-pres
--	-----------

Lead Instructor of Girls Player Development with the Jr. Hurricanes Hockey Program in Raleigh, NC	2015-pres
---	-----------

Ice Hockey Instructor with the Prime Time Hockey School	2006-2015
---	-----------

Athletic honors

Varsity women's ice hockey player at Harvard University	2006-10
---	---------

East Coast Athletic Conference (ECAC) Women's Ice Hockey Student-Athlete of the Year Finalist (one of three)	2010
--	------

ECAC All-Academic Team	2007-10
------------------------	---------