**Randi Griffin**

Department of Evolutionary Anthropology at Duke University

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Education

Duke University Ph.D. program in Evolutionary Anthropology 2013-pres

Harvard University BA Human Evolutionary Biology- *cum laude,* 2010

Highest honors in field

Work experience

*Research Technician*: comparative biology and disease ecology, 2011-13

with Dr. Charles L. Nunn at Harvard University

*Research Technician*: evolutionary genetics with Dr. Stacey D. Smith 2010-11

at the University of Nebraska-Lincoln

*Research Assistant*: evolutionary genetics of birds and relatives, 2008

with Dr. Scott Edwards at Harvard University

Grants & fellowships

NSF Graduate Research Fellowship- $102,000 over 3 years 2015

Graduate School of Duke University Summer Research 2014, 2015

Fellowship- $5500

James B. Duke Fellowship- $20,000 2013

Ecology and Evolution of Infectious Disease 10th Annual Workshop, 2012

Tuition and travel support provided by NSF- $1000

Harvard Initiative for Global Health Summer Undergraduate 2009

Research Fellowship- $4500

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](http://www.randigriffin.com/home/Cooper%20et%20al.%202012.pdf?attredirects=0" \t "_blank)

**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 2014-2015

Evolutionary Anthropology (Duke), completed honors thesis on

ecological predictors of parasitism in North American squirrels

*Teaching Assistant:* Human Health in Evolutionary Perspective Fall 2014

(Duke)

*Instructor*: AnthroTree Workshop on phylogenetic comparative 2014

methods (Durham, NC); taught module “Phylogenetic generalized

least squares, phylogenetic signal, and maximum likelihood”

*Teaching Assistant:* Introduction to Evolutionary Anthropology Spring 2014

(Duke)

*Instructor*: AnthroTree Workshop on phylogenetic comparative 2012

methods (Amherst, MA); taught module “Continuous

character evolution in R and BayesTraits”

*Teaching Assistant*: Life Sciences 1b: Spring 2010

Genetics, Genomics & Evolution (Harvard)

*Undergraduate Peer Tutor:* organic chemistry, 2008-10

introductory statistics, and genetics (Harvard)

Science outreach

*Coach:* BOOST (Building Opportunities and Overtures in Science 2015-pres

and Technology) program aimed at encouraging underrepresented

minorities and girls in Durham public schools to pursue careers in

science and engineering

*Organizer*: R Hour- a weekly R help session 2012-pres

*Volunteer:* Triangle SciTech Expo at NC Museum of Natural Sciences 2013

*Volunteer:* Science Under the Starsat Duke University2013

*Volunteer:* Sunday with a Scientist at Nebraska State Museum 2011

*Volunteer:* Albert Einstein Science Conference: Advancing 2010

Minorities and Women in Science, Engineering and Mathematics

at Harvard University

Athletics and youth sports leadership

**Youth Sports Leadership**

USA Hockey Level 4 Coach- have coached boys and girls youth 2010-pres

hockey teams of all ages, with organizations including the Lincoln

Stars (NE), Cambridge Falcons (MA), and Carolina Lightning (NC)

Lead Instructor of Girls Player Development with the Jr. Hurricanes 2015-pres

Hockey Program in Raleigh, NC

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 2010

Student-Athlete of the Year Finalist (one of three)

ECAC All-Academic Team 2007-10