

# EMILY McLEAN

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## EDUCATION

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- 2017 **Duke University** (Durham, NC)  
Ph.D., Genetics and Genomics (Advisor: Susan Alberts)  
Certificate in College Teaching
- 2009 **University of North Carolina, Greensboro** (Greensboro, NC)  
M.S, Biology (Advisor: Olav Ruepell)  
Thesis: *Comparison of marker order and recombination between Apis mellifera and Apis florea.*
- 2007 **Bryan College** (Dayton, TN)  
B.S., Biology, Minors in Mathematics and History

## PUBLICATIONS

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- 2015 Franz, F., **McLean, E.**, Tung, J., Altmann, J., Alberts, S. "Self-organizing dominance hierarchies in a wild primate population." *Proceedings of the Royal Society B.* **282**:20151512
- 2011 **McLean, E.**, Kinsella, J.M., Chiyo, P., Obanda, V., Moss, C., and Archie, E. "Genetic Identification of Five Strongyle Nematode Parasites in Wild African Elephants (*Loxodonta africana*). *J. Wildlife Diseases.* **177**:7-14.
- 2010 **Mezner, E.** Gadau, J., Koeniger N., and Rueppell O. "Comparative Linkage Mapping Suggests a High Recombination Rate in All Honey Bees." *J. Heredity.* **101**:S118-S126.

## SELECT ACADEMIC PRESENTATIONS

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- 2015 **McLean, E.**, Altmann, J., and Alberts S. "Life History, Selection and Heritability in Wild Baboons." ***Genetics and Genomics Retreat.*** Duke University, NC.
- 2014 **McLean, E.** Moorad, J., Altmann, J., and Alberts S. "Genetic Variation for life history and social behaviors in wild baboons." ***Behavioral Ecology Group.*** University of Edinburgh, Scotland.
- 2014 **McLean, E.**, Altmann, J., and Alberts S. "Genetic variation for age at sexual maturity in wild baboons." ***Evolution.*** Raleigh, NC. (Poster Presentation)
- 2013 **McLean, E.**, Franz, M., Altmann, J., and Alberts, S. "Evaluation and utilization of Elo-Rating in a population of wild baboons." ***Annual Meeting of the Animal Behavior Society.*** Boulder, CO. (Poster Presentation)
- 2009 **Mezner, E.**, and Rueppell O. "Comparison of marker order and recombination rate between *A. mellifera* and *A. florea*." ***Entomological Society of America Annual Meeting,*** Indianapolis, IN.
- 2009 **Mezner E.** and Rueppell, O. "Comparison of marker order and recombination rate between *Apis mellifera* and *Apis florea*." ***4<sup>th</sup> Annual North Carolina Honey Bee Research Consortium Meeting,*** Winston-Salem, NC.

- 2009 Rueppell, O. and **Meznar, E.** "Intra- and inter-specific variation of high recombination rates in the genus *Apis*." ***International Conference on the Evolution of Sex and Recombination***, Iowa City, IA. (Poster Presentation)
- 2008 **Meznar E.** and Rueppell, O. "Cross-species amplification of *Apis mellifera* (honeybee) microsatellites." ***North Carolina Academy of Science Meeting***, Greensboro, NC.
- 2008 **Meznar, E.** and Rueppell, O. "Intra- and interspecific variability of recombination rate in *Apis*." ***Bi-annual Meeting of the International Union for the Study of Social Insects, North American Section***, Arecibo, PR.

## PROFESSIONAL RESEARCH EXPERIENCE

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- 2009- **Lab Manager/Research Technician.** *University of Notre Dame (Notre Dame, IN)*
- 2011 Advisor: Beth Archie Research: Developed novel methods to investigate the relationship between social behavior and disease transmission in savanna baboons.

## AWARDS, HONORS AND FELLOWSHIPS

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- 2017 Bass Instructor of Record Teaching Fellowship (\$35000)
- 2016 Duke Biology Department Research Fellowship (\$35000)
- 2015 National Science Foundation Dissertation Improvement Grant (\$20515)
- 2015 Leakey Foundation Research Grant (\$14155)
- 2014 Duke Graduate School Conference Travel Award (\$1000)
- 2014 Duke Graduate School Dissertation Research Award (\$2000)
- 2013 Duke University Data Visualization Contest, Third Place (\$100)
- 2013 University Program in Genetics and Genomics Travel Fellowship (\$300)
- 2012 Sigma-Xi Grant-in-Aid of Research (\$300)
- 2010 Entomological Society of America President's Prize: *Second-place award for presentation in the Molecular Diversity category at the national meeting*
- 2009 UNCG Graduate Research Funding (\$1500)
- 2008 UNCG Summer Research Assistantship (\$1500)
- 2007 Willard J. Henning Biology Award: *Undergraduate award to one outstanding Biology graduate*
- 2003 Presidential Scholarship in Natural Sciences (\$32000)

## TEACHING EXPERIENCE

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- 2015 Teaching Assistant and Guest Lecturer, **Evolution of Animal Behavior**, Duke University
- 2014- Teaching Assistant and Laboratory Instructor, **Genetics and Evolution**, Duke University (four lab sections)
- 2015
- 2013 Mini-term Instructor, **Microbial Growth and Gene Regulation**, North Carolina School of Science and Math (Team-taught an one week course on to 15 advanced high school students)
- 2008- Teaching Assistant and Laboratory Instructor, **Introductory Biology II**, University of North Carolina-Greensboro (two lab sections)
- 2009
- 2007- Teaching Assistant and Laboratory Instructor, **Introductory Biology I**, University of North Carolina-Greensboro (two lab sections)
- 2008

## INSTITUTIONAL SERVICE

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- 2013- **Executive Student Co-Chair**, University Program in Genetics and Genomics, Duke University  
2015
- 2013 **Committee Member**, Gordon G. Hammes Teaching Award Selection Committee, School of  
Medicine, Duke University
- 2011- **Committee Chair**, Retreat Planning Committee, University Program in Genetics and Genomics,  
2015 Duke University
- 2011 **Committee Member**, Events Committee, University Program in Genetics and Genomics, Duke  
University

## SELECT PUBLIC OUTREACH AND COMMUNITY SERVICE

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- 2015 *CSI: Baboonland Presentation*, **Carolina Friends Middle School**, Durham, NC
- 2013 **Science Outreach Volunteer**, *Brogden Middle School; Durham, NC*
- 2012 *CSI: Baboonland Presentation*, **Carolina Friends Middle School**, Durham, NC
- 2008 *The Buzz about Social Insects*, **Watauga County High School**, Boone, NC
- 2009 *Find the Queen*, **Bur-Mill Park Fall Festival**, Greensboro NC
- 2009 **Exhibit Development Consultant**, *Natural Science Center; Greensboro, NC*
- 2009 **High School Tutor**, *Ben L. Smith High School; Greensboro, NC*