Amanda C. Perofsky, Ph.D.

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Current Position

2018 – **Postdoctoral Research Fellow**, Fogarty International Center, National Institutes of Health, Bethesda, MD
Division of International Epidemiology and Population Studies (DIEPS)
Supervisor: Dr. Cécile Viboud

Education

2018 **PhD** in Ecology, Evolution, and Behavior, The University of Texas at Austin, Austin, TX
Dissertation: *Ecological, Evolutionary, and Behavioral Determinants of Gut Microbiomes in Malagasy Mammals*
Advisor: Dr. Lauren Ancel Meyers

2009 **B.Sc.** in Ecology, **B.Sc.** in Biology, University of Georgia, Athens, GA
summa cum laude with Highest Honors
Honors Thesis: *Improving abundance estimation for larval stream plethodontids*
Advisor: Dr. John C. Maerz

Research Positions

2011 – 2012 **Research Assistant**, Fogarty International Center, NIH and National Institute for Mathematical and Biological Synthesis (NIMBioS), Bethesda, MD
Supervisor: Dr. Juliet R.C. Pulliam

2010 – 2011 **Post-baccalaureate IRTA Fellow**, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD
Adeno-Associated Virus Biology Section, Molecular Physiology and Therapeutics Branch
Supervisor: Dr. John A. Chiorini

2009 **Research Assistant**, Odum School of Ecology, University of Georgia, Athens, GA
Park Disease Ecology Lab
Supervisor: Dr. Andrew Park

Publications

4. **A.C. Perofsky**, R.J. Lewis, L.A. Meyers. 2018. Terrestriality and bacterial transfer: A comparative study of gut microbiomes in sympatric Malagasy mammals**.** *The ISME Journal.* doi: 10.1038/s41396-018-0251-5
3. **A.C. Perofsky**, R.J. Lewis, L.A. Abondano, A. Di Fiore, L.A. Meyers. 2017. Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka. *Proceedings of the Royal Society B* 284: 20172274. doi: 10.1098/rspb.2017.2274.
2. E.J. Rakotomalala, F. Rakotondraparany, **A.C. Perofsky**, R.J. Lewis. 2017. Characterization of the tree holes used by *Lepilemur ruficaudatus* in the dry, deciduous forest of Kirindy Mitea National Park. *Folia Primatologica* 88:28-41. doi: 10.1159/000464406.
1. B.S. Berry*, K. Magori*, **A.C. Perofsky,** D. E. Stallknecht, A.W. Park. 2013. Wetland cover dynamics drive hemorrhagic disease patterns in white-tailed deer in the United States. *Journal of Wildlife Diseases* 49(3):501-509. doi: 10.7589/2012-11-283. *Co-first authors

Fellowships

2017, 2018 Graduate School Summer Semester Continuing Fellowship, The University of Texas at Austin (UT-Austin)

2014, 2015 Graduate Dean's Prestigious Fellowship Supplement, UT-Austin

2012 – 2017 National Science Foundation (NSF) Graduate Research Fellowship

2011 Integrative Biology Graduate Recruitment Fellowship, UT-Austin

2010 – 2011 NIH Post-baccalaureate Intramural Research Training Fellowship

Research Support

2018 Research Exchange Grant, National Science Foundation IDEAS RCN ($2800)

2015 Ecology, Evolution, and Behavior Dissertation Improvement Grant, UT-Austin ($8000)

2015 Research Grant, NSF BEACON Center for the Study of Evolution in Action ($16,000); co-PIs: Lauren Meyers, Rebecca Lewis; project designed by Amanda Perofsky

2012 Research Grant, American Society of Primatologists ($2000)

2012 Research Grant, International Primatological Society ($1500)

2011 Ecology, Evolution, & Behavior Startup Grant, UT-Austin ($2000)

Scholarships and Awards

2017 Network Modeling for Epidemics Course Fellowship, University of Washington

2017 Graduate Student Professional Development Award, College of Natural Sciences, UT-Austin

2014, 2015 Summer Institute in Statistics and Modeling in Infectious Diseases Scholarship and Travel Award, University of Washington

2011 Meaningful Modeling of Epidemiological Data Clinic Scholarship and Travel Award, African Institute for Mathematical Sciences

2010, 2011 Ecology and Evolution of Infectious Diseases Conference Workshop Scholarship and Travel Award, Cornell University and University of California, Santa Barbara

2009 Center for Undergraduate Research Opportunities Scholar, University of Georgia

2008 NSF Research Experiences for Undergraduates (REU) Internship, University of Georgia

2008 Elected, Phi Beta Kappa Honors Society

2007 Honors International Scholarship, University of Georgia

2005 – 2009 Charter Scholarship, University of Georgia

2005 – 2009 National Merit Scholarship, University of Georgia

2005 – 2009 Georgia HOPE Scholarship

2005 – 2009 Georgia Governor's Scholarship

Conference and Symposia Presentations

Oral Presentations

"The impact of antigenic change on seasonal influenza epidemics"

2019 Epidemics International Conference on Infectious Disease Dynamics, Charleston, SC (upcoming)
2019 Options X for the Control of Influenza, Singapore

"Gut microbiome diversity across sympatric wild mammal populations of Madagascar reflects diet, habitat use, and host phylogeny"
2018 American Association of Physical Anthropologists Conference, Austin, TX

"Social network structure shapes gut microbial communities in wild Verreaux's sifaka"
2016 Annual Congress, BEACON Center for the Study of Evolution in Action, East Lansing, MI
2016 Integrative Biology Graduate Student Symposium, Austin, TX

"Socio-behavioral determinants of infectious disease transmission in a wild lemur population"
2012 Integrative Biology Graduate Student Symposium, Austin, TX

Posters

2019 Ecology and Evolution of Infectious Diseases Conference, Princeton, NJ
2017 Society of Molecular Biology and Evolution Conference, Austin, TX
2017 Ecology and Evolution of Infectious Diseases Conference, Isla Vista, CA
2015 Epidemics International Conference on Infectious Disease Dynamics, Clearwater Beach, FL

2011 Meaningful Modeling of Epidemiological Data Clinic, African Institute for Mathematical Sciences, Cape Town, South Africa
2011 Post-baccalaureate Fellow Poster Day, National Institutes of Health
2011 Fellows Research Retreat, National Institute for Dental and Craniofacial Research

Seminar Presentations

2019 Influenza Interest Group, National Institutes of Health, Bethesda, MD "The impact of antigenic change on seasonal influenza epidemics"

2018 Fogarty International Center, National Institutes of Health, Bethesda, MD "Drivers of gut microbial composition and transmission within and among wild lemur populations"

2017 Bansal Research Group, Georgetown University, Washington, DC "Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka"

2017 BEACON Center for the Study of Evolution in Action (web seminar) "Gut microbiome diversity across sympatric mammal populations of Madagascar reflects diet, substrate use, and host phylogeny"

2016 BEACON Center for the Study of Evolution in Action (web seminar) "Social networks shape gut microbial communities in wild Verreaux's sifaka"

2016 Kirindy Mitea National Park headquarters, Belo Sur Mer, Madagascar. "Bacteria transmission dynamics among wildlife in Kirindy Mitea National Park"

2015 Department of Integrative Biology, UT-Austin, Austin, TX "Social networks shape gut microbial communities in wild Verreaux's sifaka"

2012 Kirindy Mitea National Park headquarters, Morondava, Madagascar "Infectious disease transmission in a wild lemur population."

Teaching Experience

2018 Co-Instructor, MISMS Training Workshop on Infectious Diseases Dynamics and Evolution, National Institutes of Communicable Diseases, Johannesburg, South Africa

2016, 2017 Graduate Teaching Assistant, Scientific Inquiry Across Disciplines (Freshman Signature Course), UT-Austin

2013 Graduate Teaching Assistant, Social Networks and Infectious Diseases (Freshman Signature Course), UT-Austin

Guest Teaching Lectures

2015 Introduction to Biological Statistics Course, Center for Computational Biology and Bioinformatics, UT-Austin "Biological Networks and Social Network Analysis"

2014 Introduction to Biological Statistics Course, Center for Computational Biology and Bioinformatics, UT-Austin "Introduction to Networks"

Mentoring Experience

2012, 2016 Masters' Student Training, Department of Animal Biology, University of Antananarivo. During my field seasons at Ankoatsifaka Research Station, I trained Malagasy graduate students (Elvis Rakotomalala and Safidy Rasolonjatovo) in field techniques, data collection, and specimen preservation and helped them to develop independent projects.

2010 – 2011 Student Training, National Institutes of Health. As a post-baccalaureate fellow in the Adeno-associated Virus Biology Section of NIDCR, I trained several undergraduate, dental, and medical students in molecular laboratory techniques.

Training

2017 Network Modeling for Epidemics, University of Washington, Seattle, WA

2014, 2015 Summer Institute in Statistics and Modeling in Infectious Diseases, University of Washington, Seattle, WA

2011 Evolution of Infectious Diseases Modeling Workshop, Ecology and Evolution of Infectious Diseases Conference, Isla Vista, CA

2011	Meaningful Modeling of Epidemiological Data Clinic, African Institute for Mathematical Sciences, Cape Town, South Africa
2010	Ecology of Infectious Diseases Modeling Workshop, Ecology and Evolution of Infectious Diseases Conference, Ithaca, NY
2007	University of Georgia Tropical Field Ecology Course in Costa Rica

Science Communication and Education Outreach

2011 – 2018	Radio DJ and Science Talk Show Host, KVRX 91.7FM, UT-Austin, Austin, TX. Organizer and co-host of "They Blinded Me with Science," a weekly educational talk show that interviews both UT-based and visiting researchers and reviews current science publications and news. I recruited guests, conducted interviews, and produced podcasts that are available for download on Podbean and iTunes.
2011 – 2017	Co-organizer and Volunteer, Science Under the Stars, Austin, TX. I helped coordinate and promote a free monthly lecture series held at UT's field laboratory that provides graduate students an opportunity to communicate ecological research to the greater public.
2018	American Association for the Advancement of Science (AAAS) Classroom Science Days participant, Austin, TX.
2017	Panel on STEM Public Engagement, BEACON Center for the Study of Evolution in Action, Austin, TX
2016	Public Outreach Lecture ("Meet the Lemurs"), Science Under the Stars, Austin, TX Media coverage: KVRX 91.7 and The Daily Texan
2016	"Researchers at Work" blog post, BEACON Center for the Study of Evolution in Action. "How lemur social networks shape microbial transmission."

Peer Review: Animal Behaviour, International Journal of Primatology, American Journal of Primatology, Ecology and Evolution, Molecular Ecology

References

1. **Cécile Viboud**
   Staff Scientist, Division of International Epidemiology and Population Studies
   Fogarty International Center, National Institutes of Health
   viboudc@mail.nih.gov

2. **Lauren Ancel Meyers**
   Professor, Integrative Biology
   The University of Texas at Austin
   laurenmeyers@austin.utexas.edu

3. **Rebecca Lewis**
   Associate Professor, Anthropology
   The University of Texas at Austin
   rjlewis@austin.utexas.edu