

## Amanda C. Perofsky, Ph.D.

Brotman Baty Institute for Precision Medicine, University of Washington School of Medicine, Seattle, WA  
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### Education

- 2018      **PhD** in Ecology, Evolution, and Behavior, The University of Texas at Austin, Austin, TX
- 2009      **B.Sc.** in Ecology, **B.Sc.** in Biology, University of Georgia, Athens, GA  
*Summa cum laude* with Highest Honors

### Research Positions

- 4/2021 –      **Research Scientist**, Brotman Baty Institute for Precision Medicine, UW School of Medicine  
**Guest Researcher**, Fogarty International Center, National Institutes of Health  
Supervisor: Dr. Cécile Viboud
- 9/2018 – 4/2021      **Postdoctoral Research Fellow**, Fogarty International Center, NIH  
Division of International Epidemiology and Population Studies  
Supervisor: Dr. Cécile Viboud
- 8/2011 – 8/2018      **Doctoral student**, Department of Integrative Biology, UT-Austin  
Dissertation: “Ecological, Evolutionary, and Behavioral Determinants of Gut Microbiomes in Malagasy Mammals”  
Advisor: Dr. Lauren Ancel Meyers
- 3/2011 – 1/2012      **Research Assistant**, Fogarty International Center, NIH and National Institute for Mathematical and Biological Synthesis  
Supervisor: Dr. Juliet R.C. Pulliam
- 1/2010 – 8/2011      **Post-Baccalaureate IRTA Fellow**, National Institute of Dental and Craniofacial Research, NIH  
Adeno-Associated Virus Biology Section, Molecular Physiology and Therapeutics Branch  
Supervisor: Dr. John A. Chiorini
- 8/2009 – 12/2009      **Research Assistant**, Odum School of Ecology, University of Georgia  
Supervisor: Dr. Andrew Park
- 1/2007 – 5/2009      **Undergraduate Research**, Warnell School of Forestry, University of Georgia  
Honors Thesis: “Improving abundance estimation for larval stream plethodontids”  
Research Mentor: Dr. John C. Maerz

### Publications

\*Indicates equal contribution

1. **A.C. Perofsky**, L.A. Meyers., L.A. Abondano, A. Di Fiore, R.J. Lewis. Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. 2021. *Molecular Ecology*. doi: 10.1111/mec.16193
2. D.S. McBride<sup>+</sup>, **A.C. Perofsky**<sup>+</sup>, J.M. Nolting, M.I. Nelson, A.S. Bowman. 2021. Tracing the source of influenza A virus zoonoses in interconnected circuits of swine exhibitions. *Journal of Infectious Diseases* jia122. doi: 10.1093/infdis/jiab122
3. **A.C. Perofsky** and M.I. Nelson. 2020. Seasonal influenza: the challenges of vaccine strain selection. *eLife* 9: e62955. doi: 10.7554/eLife.62955
4. M.I. Nelson, **A. Perofsky**, D.S. McBride, B.L. Rambo-Martin, M.M. Wilson, J.R. Barnes, H. van Bakel, J.M. Nolting, A.S. Bowman. 2020. A heterogeneous swine show circuit drives zoonotic transmission of influenza A viruses in the United States. *Journal of Virology*. doi:10.1128/JVI.01453-20
5. C. Viboud, K. Gostic, M.I. Nelson, G.E. Price, **A. Perofsky**, K. Sun, N. Sequeira Trovão, B. Cowling, S. Epstein, D.J. Spiro. 2020. Beyond Clinical Trials: Evolutionary and Epidemiological Considerations for Development of a Universal Flu Vaccine. *PLOS Pathogens* 16(9): e1008583. doi: 10.1371/journal.ppat.1008583

6. **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* 13, 50–63. doi: 10.1038/s41396-018-0251-5
7. **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
8. 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.
9. B.S. Berry<sup>†</sup>, K. Magori<sup>†</sup>, **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.

#### Manuscripts in progress

- **A.C. Perofsky**, S. Tempia, J. Bingham, C. Maslo, M. Toubkin, A. Laubscher, S. Walaza, J.R.C. Pulliam, C. Viboud, C. Cohen. The direct and indirect effects of the COVID-19 pandemic on private healthcare utilization in South Africa. Under review.

#### Surveillance Reports

- Modeling and technical support to South Africa's National Institute for Communicable Diseases for their COVID 19 Private Consultations Excess Respiratory Encounters Report. [Reports](#) are updated on a bi-weekly basis.

#### Fellowships

2017, 2018	UT-Austin Graduate School Summer Semester Continuing Fellowship
2014 – 2015	UT-Austin Graduate School Dean's Prestigious Fellowship Supplement
2013 – 2015	National Science Foundation Graduate Research Fellowship (awarded in 2012)
2011	UT-Austin Integrative Biology Graduate Recruitment Fellowship
2010 – 2011	National Institutes of Health Post-baccalaureate Intramural Research Training Award

#### Research Grants

2018	Research Exchange Grant, National Science Foundation IDEAS RCN (\$2800)
2015	Dissertation Improvement Grant, Ecology, Evolution, and Behavior, UT-Austin (\$8000)
2015	Research Grant, NSF BEACON Center for the Study of Evolution in Action (\$16,000); co-PIs: Amanda Perofsky, Lauren Meyers, Rebecca Lewis; project designed by A. Perofsky
2012	Small Research Grant, American Society of Primatologists (\$2000)
2012	Small Research Grant, International Primatological Society (\$1500)
2011	Startup Grant, Ecology, Evolution, and Behavior, UT-Austin (\$2000)

#### Scholarships and Awards

2020	Fogarty International Center Group Merit Award "For outstanding modeling work to support the COVID-19 pandemic response domestically and internationally"
2020	Young Scientist Award, European Scientific Working group on Influenza (ESWI) Conference
2019	Fogarty International Center Distinguished Achievement Award "For outstanding efforts to forecast weekly influenza-like illness activity at 26 US military facilities"
2017	Graduate Student Professional Development Award, College of Natural Sciences, UT-Austin
2009	Center for Undergraduate Research Opportunities (CURO) Scholar, UGA
2008	Elected, Phi Beta Kappa Honors Society
2008	NSF Research Experiences for Undergraduates (REU) Internship, UGA
2005 – 2009	Honors Program Charter Scholarship, UGA
2005 – 2009	National Merit Scholarship, UGA
2005 – 2009	Georgia HOPE Scholarship (full tuition)
2005 – 2009	Georgia Governor's Scholarship (awarded to high school valedictorians)

#### Travel Grants and Course Scholarships

2017	Network Modeling for Epidemics Course Fellowship, University of Washington
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- 2014, 2015 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID) Scholarship and Travel Award, University of Washington
- 2011 Meaningful Modeling of Epidemiological Data (MMED) Clinic Scholarship and Travel Award, African Institute for Mathematical Sciences
- 2010, 2011 Ecology and Evolution of Infectious Diseases (EEID) Conference Workshop Scholarship and Travel Award, Cornell University and University of California, Santa Barbara
- 2007 Honors International Scholarship, University of Georgia (Field ecology course in Costa Rica)

## **Scientific Meetings**

### ***Contributed Talks***

- 2021 NIH Modeling of Infectious Disease Agent Study (MIDAS) Annual Meeting (virtual)
- 2021 NIH Centers of Excellence for Influenza Research and Surveillance (CEIRS) Annual Meeting (virtual)
- 2020 NIH COVID-19 Research Workshop (virtual)
- 2019 Epidemics International Conference on Infectious Disease Dynamics, Charleston, SC
- 2019 Options X for the Control of Influenza, Singapore
- 2018 American Association of Physical Anthropologists (AAPA) Conference, Austin, TX
- 2016 NSF BEACON Annual Congress, Michigan State University, East Lansing, MI

### ***Contributed Posters***

- 2020 European Scientific Working group on Influenza (ESWI) Conference (virtual)
- 2019 Ecology and Evolution of Infectious Diseases (EEID) Conference, Princeton, NJ
- 2017 Society of Molecular Biology and Evolution (SMBE) Conference, Austin, TX
- 2017 Ecology and Evolution of Infectious Diseases (EEID) Conference, Isla Vista, CA
- 2015 Epidemics International Conference on Infectious Disease Dynamics, Clearwater Beach, FL

## **Seminar Presentations**

- 2021 Seattle Flu Study Scientific Meeting, Brotman Baty Institute, UW School of Medicine (virtual)
- 2021 Influenza Research Group, National Animal Disease Center, USDA (virtual)
- 2019 Influenza Interest Group, NIH, Bethesda, MD
- 2018 Fogarty International Center, NIH, Bethesda, MD
- 2017 Bansal Research Group, Georgetown University, Washington, DC
- 2017 NSF BEACON weekly seminar (virtual)
- 2016 NSF BEACON weekly seminar (virtual)
- 2016 Kirindy Mitea National Park headquarters, Belo Sur Mer, Madagascar
- 2015 Department of Integrative Biology, UT-Austin, Austin, TX
- 2012 Kirindy Mitea National Park headquarters, Morondava, Madagascar

## **Teaching Experience**

Co-Instructor, Fogarty International Center-DIVERGE Training Workshop on RSV Genomics and Evolution, National Institutes of Health, Bethesda, Maryland. September 2019

Co-Instructor, Fogarty International Center-NICD Training Workshop on Infectious Disease Dynamics and Evolution, National Institutes of Communicable Diseases, Johannesburg, South Africa. December 2018

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

Guest Lecture ("Biological Networks and Social Network Analysis"), Introduction to Biological Statistics Course, Center for Computational Biology and Bioinformatics, UT-Austin. November 2015

Guest Lecture ("Introduction to Networks"), Introduction to Biological Statistics Course, Center for Computational Biology and Bioinformatics, UT-Austin. November 2014

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

## Science Communication, Outreach, and Advocacy

- 2021 “Science Policy for All” blogpost: [“Can the United States achieve herd immunity? Vaccine mandates and other policies to increase COVID-19 vaccination”](#)
- 2020 “Science Policy for All” blogpost: [“The Use of COVID-19 Prediction Models in Guiding Policy Decisions”](#)
- 2020 Poster Judge, NIH Annual Graduate Student Research Symposium
- 2019 – 2021 Member, NIH Science Policy Discussion Group (SPDG). The NIH SPDG is a fellow-led and run self-governing organization that brings together fellows with a shared passion for understanding the intersection of scientific research and legislative policy.
- 2018 American Association for the Advancement of Science (AAAS) [Classroom Science Days](#) selected speaker, Austin, TX. Outreach lecture (“Meet the Lemurs”) to middle school students.
- 2017 Panel on STEM Public Engagement, NSF BEACON, Austin, TX
- 2016 Public Outreach Lecture (“Meet the Lemurs”), Science Under the Stars, Austin, TX. Media coverage: [The Daily Texan](#)
- 2016 NSF BEACON “Researchers at Work” essay: [“How lemur social networks shape microbial transmission”](#)
- 2011 – 2018 Radio DJ and Science Talk Show Host, KVRX 91.7FM, UT-Austin, Austin, TX. Co-organizer and co-host of “They Blinded Me with Science,” a weekly educational talk show that interviewed both UT-based and visiting researchers and reviewed current science publications and news. Helped recruit guests, conduct interviews, and produce podcasts that are available for download on [Podbean](#) and iTunes.
- 2011 – 2017 Co-organizer and Volunteer, [Science Under the Stars](#), Austin, TX. 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.

## Editorial Activities

- 2019 – 2021 Essay editor for [“Science Policy for All”](#) (science policy blog with contributors from the Washington, DC area)
- 2018 – Ad hoc peer reviewer for *American Journal of Epidemiology*, *American Journal of Primatology*, *Animal Behaviour*, *BMJ Global Health*, *Ecology and Evolution*, *Epidemics*, *FEMS Microbiology Ecology*, *International Journal of Primatology*, *The ISME Journal*, *Microbial Biotechnology*, *Molecular Ecology*, *Nature Communications*, *PLOS Computational Biology*