Amanda C. Perofsky, Ph.D.

Brotman Baty Institute for Precision Medicine, University of Washington, Seattle, WA Fogarty International Center, National Institutes of Health, Bethesda, MD Email: amanda.perofsky@nih.gov • Website: aperofsky.github.io

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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

research 1 ositions	
4/2021 -	Research Scientist, Brotman Baty Institute for Precision Medicine, University of Washington Guest Researcher, Fogarty International Center, National Institutes of Health Supervisor: Dr. Cécile Viboud
9/2018 - 4/2021	Postdoctoral Research Fellow , Fogarty International Center, National Institutes of Health Division of International Epidemiology and Population Studies Supervisor: Dr. Cécile Viboud
8/2011 - 8/2018	Doctoral student, Department of Integrative Biology, University of Texas at 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, National Institutes of Health 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, National Institutes of Health 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

- 11. C.L. Hansen, A.C. Perofsky, R. Burstein, M. Famulare, S. Boyle, R. Prentice, C. Marshall, B.J.J. McCormick, D. Reinhart, B. Capodanno, M. Truong, K. Schwabe-Fry, K. Kuchta, B. Pfau, Z. Acker, J. Lee, T.R. Sibley, E. McDermot, L. Rodriguez-Salas, J. Stone, ... C. Viboud. Trends in risk factors and symptoms associated with SARS-CoV-2 and Rhinovirus test positivity in King County, Washington: A Test-Negative Design Study of the Greater Seattle Coronavirus Assessment Network. 2022. JAMA Network Open 5(12):e2245861. doi: 10.1001/jamanetworkopen.2022.45861.
- 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, March 2020 September 2021. 2022. Clinical Infectious Diseases 75(1):e1000–1010. doi: 10.1093/cid/ciac055.
- 9. **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* 30:6759–6775. doi: 10.1111/mec.16193.
- 8. D.S. McBride[†], **A.C. Perofsky**[†], 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* 224(3):458-468. doi: 10.1093/infdis/jiab122. [†] Equal contribution
- A.C. Perofsky and M.I. Nelson. 2020. Seasonal influenza: the challenges of vaccine strain selection. eLife 9:e62955. doi: 10.7554/eLife.62955.

- 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 heterogenous swine show circuit drives zoonotic transmission of influenza A viruses in the United States. *Journal of Virology* 94(24):e01453-20. doi:10.1128/JVI.01453-20.
- 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.
- A.C. Perofsky, R.J. Lewis, L.A. Meyers. 2019. 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.
- 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. †Equal contribution

Infectious Disease Forecasting and Operational Support

- 2022 Contributor to the CDC FluSight Forecasting Collaboration. Submitted short-term forecasts of weekly influenza hospitalizations in the United States.
- 2022 Contributor to NIH MIDAS Influenza Scenario Modeling Hub. Submitted long-term projections of weekly influenza hospitalizations in the United States.
- 2020 2022 Developed analysis and provided technical support to South Africa's National Institute for Communicable Diseases (NICD) for their COVID-19 Private Consultations Excess Respiratory Encounters Report. Reports were updated on a bi-weekly or monthly basis.
- 2019 Contributor to the US Department of Defense Forecasting Collaboration. Submitted weekly short-term forecasts of influenza-like illness and COVID-like illness cases on 26 US military bases.

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

2000		
2009		Center for Undergraduate Research Opportunities (CURO) Scholar, UGA
2008 2008		Elected, Phi Beta Kappa Honors Society NSF Research Experiences for Undergraduates (REU) Internship, UGA
2005 -	2009	Honors Program Charter Scholarship, UGA
2005 -		National Merit Scholarship, UGA
2005 -		Georgia HOPE Scholarship (full tuition)
2005 -	2009	Georgia Governor's Scholarship (awarded to high school valedictorians)
Travel	Grants a	and Course Scholarships
2017		Network Modeling for Epidemics Course Fellowship, University of Washington
2014, 2	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, 2	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)
Scienti	ific Meet	ings
Contri	buted Ta	alks
2022	NIH/F	DA COVID-19 Research Workshop (virtual flash talk)
2022	Options	s XI for the Control of Influenza, Belfast, Northern Ireland
2022	NIH M	odeling of Infectious Disease Agent Study (MIDAS) Annual Meeting, Bethesda, MD
2021	NIH Modeling of Infectious Disease Agent Study (MIDAS) Annual Meeting (virtual)	
2021	NIH Ce	enters of Excellence for Influenza Research and Surveillance (CEIRS) Annual Meeting (virtual)
2020	NIH/F	DA COVID-19 Research Workshop (virtual flash talk)
2019	Epidem	ics International Conference on Infectious Disease Dynamics, Charleston, SC
2019	Options	x X for the Control of Influenza, Singapore
2018	America	an Association of Physical Anthropologists (AAPA) Conference, Austin, TX
2016	NSF BE	EACON Annual Congress, Michigan State University, East Lansing, MI
Contri	buted Po	osters
2022	Options	s XI for the Control of Influenza, Belfast, Northern Ireland
2020	Europea	an Scientific Working group on Influenza (ESWI) Conference (virtual)
2019	Ecology	y and Evolution of Infectious Diseases (EEID) Conference, Princeton, NJ
2017	Society	of Molecular Biology and Evolution (SMBE) Conference, Austin, TX
2017	Ecology	y and Evolution of Infectious Diseases (EEID) Conference, Isla Vista, CA
2015	Epidem	ics International Conference on Infectious Disease Dynamics, Clearwater Beach, FL
Invited Seminar Presentations		
2022	Seattle 1	Flu Alliance Scientific Meeting, Brotman Baty Institute, UW School of Medicine (virtual)
2021	Seattle 1	Flu Study Scientific Meeting, Brotman Baty Institute, UW School of Medicine (virtual)
2021		za Research Group, National Animal Disease Center, USDA (virtual)
2019		za Interest Group, NIH, Bethesda, MD
2018		International Center, NIH, Bethesda, MD
2017		Research Group, Georgetown University, Washington, DC
2017		EACON weekly seminar (virtual)
2016		EACON weekly seminar (virtual)
2016		Mitea National Park headquarters, Belo Sur Mer, Madagascar
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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

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2022	Invited panelist, "Reflections on COVID-19", NIH MIDAS Annual Meeting, Bethesda, MD
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, Bethesda, MD
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) <u>Classroom Science Days</u> selected speaker, Austin, TX. Outreach lecture ("Meet the Lemurs") to middle school students.
2017	Invited Panelist 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, <u>Science Under the Stars</u> , 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 -	Peer reviewer for American Journal of Epidemiology, American Journal of Primatology, Animal
	Behaviour, BMJ Global Health, Ecology and Evolution, Epidemics, International Journal of
	Primatology, The ISME Journal, Molecular Ecology, Nature Communications, PLOS Computational
	Biology