

Anna Rose Willoughby
GRADUATE STUDENT • DISEASE ECOLOGY • CONSERVATION BIOLOGY
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EDUCATION

Doctor of Philosophy Student August 2018 - present
Odum School of Ecology, University of Georgia, Athens, GA GPA: 3.9/4.0
Advisors: Dr. Sonia Altizer and Dr. John Drake

Bachelor of Science, Evolutionary Anthropology (*with distinction*); Biology May 2015
Duke University, Durham, NC GPA: 3.5/4.0
Thesis: Trade-offs between health, reproduction, and activity in wild chacma baboons (*Papio ursinus*)

Organization of Tropical Studies

African Ecology and Conservation; Kruger National Park, South Africa Fall 2013
Introduction to Tropical Studies; La Selva Biological Station, Costa Rica Summer 2013

GRANTS & AWARDS

IDEAS Small Grant , University of Georgia, May 2020	\$1,910
IDEAS Extension Award , UGA; Odum School of Ecology, Spring 2020	\$34,000
Conference Travel Award , UGA Odum School of Ecology, Spring 2020	\$500
Student Collections Grant , Natural History Museum of LA County, 2019	\$1,015
IDEAS Small Grant , University of Georgia, May 2019	\$298
Innovative and Interdisciplinary Research Grant , UGA, April 2019	\$1,750
Interdisciplinary Ecology Across Scales Graduate Fellowship (IDEAS) , University of Georgia; National Science Foundation, 2018 (2 Yrs Funding)	\$68,000
Plotly in R Workshop , Women in Machine Learning & Data Science, 2017	\$1,299
Undergraduate Support Research Grant , Duke University, Fall 2014	\$600

PEER-REVIEWED PUBLICATIONS

Willoughby AR, Phelps KL, PREDICT Consortium, Olival KJ. (2017). A comparative analysis of viral richness and viral sharing in cave-roosting bats. *Diversity*, 9(3), 35.
Olival KJ and **Willoughby AR**. (2017) Prioritizing the Dormant Flaviviruses. *EcoHealth*.
Vasquez D, **Willoughby AR**, & Davis AK. (2015). Fighting While Parasitized: Can Nematode Infections Affect the Outcome of Staged Combat in Beetles? *PloS One*, 10(4), e0121614

OTHER PUBLICATIONS

Poelen J, Upham N, Agosti D, Ruschel T, Guidoti M, Reeder DA, **Willoughby AR**. (2020). CETAF-DiSCCo/COVID19-TAF biodiversity-related knowledge hub working group: indexed biotic interactions and review summary (Version 0.2) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3839098>

- USAID PREDICT Modeling & Analytics Team. (2018). Identifying the Next Zika: An Analysis of Understudied Flaviviruses. *Emerging Disease Insight Report*.
<http://livescience.ecohealthalliance.org/predict/reports/2018-04-16-edi-identifying-the-next-Zika-virus.pdf>
- USAID PREDICT Modeling & Analytics Team. (2016). MERS-CoV Surveillance in Africa. *Emerging Disease Insight Report*.
<http://livescience.ecohealthalliance.org/predict/reports/2016-01-08-mers-cov-in-africa.pdf>

PUBLICATIONS IN PREP

- Willoughby AR**, Altizer S, Hernandez S, Drake J. Human viewing effects on wildlife ecology and health. To be submitted to *Trends in Ecology and Evolution*.
- Willoughby AR**. Cacomistle species distribution, behavioral activities, and human interactions. To be submitted to *Journal of Animal Ecology*.
- Willoughby AR**, Richards RL, Arnold KMH, Evans MV, Majewska A, Suh D, Schatz A, Teitelbaum CS, Vaz J. The relative importance of environmental factors and host range for the global distribution of a multi-host, environmentally persistent, zoonotic parasite. To be submitted to *Philosophical Transactions of the Royal Society B*.

PRESENTATIONS

- Boyles Z, **Willoughby AR**, Drake JM, Altizer S. (2020) Affiliative and aggressive interactions between tourists and rock squirrels (*Otospermophilus variegatus*) in Zion National Park. *UGA CURO Symposium*. 21 Apr. (poster).
- Simmons JM, **Willoughby AR**, Altizer S. (2020) Mammalian hair as an indicator of species identity and diet quality in human-modified habitats. *UGA CURO Symposium*. 21 Apr. (poster).
- Willoughby AR**, Drake JM, Altizer S. (2020) Social media records expand knowledge of distribution, behavior, and species interactions of elusive wildlife. *UGA Odum School of Ecology Graduate Student Symposium*. Athens, GA. 31 Jan.
- Willoughby AR**. (2019) Resourcing ringtails. *NPS Brown Bag Lunch*. Springdale, UT.
- Willoughby AR**. (2019) Social media as a digital data source for wildlife ecology studies. *3rd Annual Digital Data in Biodiversity Research Conference*. New Haven, CT.
- Willoughby AR**, Hagan E, Kerwin J, Olival KJ. (2019) A systematic review of environmental persistence across 25 viral families. *UGA Odum School of Ecology Graduate Student Symposium*. Athens, GA (5 min).
- Willoughby AR**, Hagan E, Kerwin J, Olival KJ. (2018) A systematic review of environmental survival across 25 viral families. *International Conference of Emerging Infectious Diseases*. Atlanta, GA. 27 Sep. (poster)
- Willoughby AR**, Ross N, Rosenthal C, Basaraba C, Zambrana-Torrel C, Daszak P, Olival KJ (2018). The multilayer networks of the flavivirus community. *Networks in Disease Ecology Satellite Symposium, International School and Conference on Network Science*. Paris, France.
- Willoughby AR** (2017). Using networks to study zoonotic pathogens. *International Association for Ecology and Health Webinar*. 18 Dec
- Willoughby AR**, Ross N, Zambrana-Torrel C, Olival KJ. Viral Sharing in the Bat Metacommunity (2017). *AMNH Student Conference on Conservation Science*. 11 Oct. New York, NY. (poster)

Olival KJ, Ross N, Eskew EE, **Willoughby AR**, Zambrana-Torrelío C, Daszak P, PREDICT Consortium (2017). Estimating viral richness in bats: integrating previously-published and newly acquired field data. *2nd International Symposium on Infectious Diseases of Bats*. Ft. Collins, CO. 30 June.

Willoughby AR, Phelps KL, PREDICT Consortium, Olival KJ (2017). A comparative analysis of viral richness and viral sharing in cave-roosting bats. *47th Annual Symposium of Bat Research, North American Society for Bat Research*. Knoxville, TN. 21 Oct

Olival KJ, **Willoughby AR**, Rosenthal C, Weins K, Basaraba C, Zambrana-Torrelío C, Ross N, Daszak P (2016). Identifying the next Zika: an analysis of zoonotic potential in Flaviviridae. *International Meeting on Emerging Diseases and Surveillance*. Vienna, Austria. 5 Nov. (poster)

Sobel A, Ajayi T, Clarke R, Manus M, Samson D, Schmitt D, Trentadue T, **Willoughby A**, Yu J, Nunn C. (2015) Shining Evolutionary Light on Global Health Challenges: Assessing Human Health in Rural Madagascar. *Global Health Showcase*, Duke Global Health Institute. Durham, NC. 26 Oct. (poster)

Olival K, Apakupakul K, **Willoughby A**, Sintunawa C, Duengkae P, Wacharapluesadee S. (2015). Monitoring a Bat Population in Thailand Using Long-Term Guano Harvest Records. *45th Annual Symposium of Bat Research, North American Society for Bat Research*. Monterey, CA. 29 Oct. (poster)

RESEARCH EXPERIENCE

EcoHealth Alliance, Modeling & Analytics Research Assistant; New York, NY	Sep 2015 - June 2018
Bass Connections, Duke University Team Member; Sambava, Madagascar	Jan - July 2015
Pusey Lab, Duke University Thesis Candidate; Durham, NC	Aug - May 2015
Altizer Lab, University of Georgia Lab Volunteer; Athens, GA	July 2014

OTHER PROFESSIONAL EXPERIENCE

Center for the Ecology of Infectious Diseases, University of Georgia	Athens, GA
COVID-19 Working Group, Member	Jan 2020 -
Mapping Working Group, Member	Sept 2018 -
Project WILD Pre-Orientation Program, Duke University	Pisgah National Forest, NC
Hiking Leader (2014), Climbing Director (2013), Base Camp Staffer (2012)	2012-2014
Duke Campus Farm	Durham, NC
Undergraduate Work Study	Aug 2011 - May 2013
Camp Glen Arden	Zirconia NC
Rock Climbing and Pottery Counselor	Summer 2011/2012

SERVICE

Mentoring (6 Undergraduates, 1 MPH student, 2 PhD Students, 1 Wildlife Professional)

2020 Caroline Aikens , University of Georgia, CURO Program	Athens, GA
2020 John Mark Simmons , University of Georgia, CURO Program	Athens, GA
2019 Zoe Boyles , University of Georgia, CURO Program	Athens, GA
2018 UGA Disease Ecology Club , Graduate School Applications	Athens, GA
2018 UGA SEEDS , Undergraduate CV and Resume Workshop	Athens, GA
2017 Farnaz Farhang , San Diego State University, EcoHealth Alliance Internship	New York, NY
2017 Jordan Kerwin , Brooklyn College, EcoHealth Alliance Internship	New York, NY

2017 Dr. Richard Su-irre , Ghana Wildlife, USAID PREDICT2 Fellow	New York, NY
2016 Helen Chen , Columbia University, EcoHealth Alliance Internship	New York, NY
2016 Kristen Weins , New York University, EcoHealth Alliance Internship	New York, NY
2016 Cionna Rosenthal , Trinity College, EcoHealth Alliance Internship	New York, NY
2016 Aingorn Chaibes , Kasetsart University, USAID PREDICT2 Fellow	New York, NY

Outreach & Ecological Art

UGA EcoReach, Volunteer and Curriculum Committee	2018 - Present
UGA STEMZone Project Monarch Health, Booth Designer	2018 - Present
UGA Ideas for Creative Exploration Research as Craft Workshop, Artist	Spring 2019
Imagination Squared, Contributor	Spring 2019
500 Women Scientists Wikipedia Hack-a-thon, Contributor	June 2018
500 Women Scientists Caveat: Pregame Your Brain, Booth Designer	December 2017

Institutional Leadership

UGA OSE Graduate Student Organization, Webmaster	2020 - 2021
UGA OSE Non-Academic Career Panel, Organizer and Moderator	2020
UGA IDEAS Program Graduate Student Representative	2019 - 2020
UGA OSE Graduate Student Organization Seminar Representative	2019 - 2020
UGA OSE Graduate Student Organization Symposium Program Committee	2018 - 2019
EcoHealth Alliance Women in Science Panel, Organizer and Moderator	March 2017/2018

Journal, Software, and Program Refereeing

EcoHealth, Scientific Data, rOpenSci, AAAS IF/THEN Ambassadors Program

Professional Membership

Ecological Society of America	2020 -
Southwestern Association of Naturalists	2020 -
Animal Behavior Society	2019 -
Center for the Ecology of Infectious Diseases	2018 -
Friends of the Georgia Museum of Natural History	2018 -
Society for Young Network Scientists	2018 -
North American Society for Bat Research	2017 - 2018
500 Women Scientists	2016 -
International Association for Ecology and Health	2015 - 2018