



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 female 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*. 14: 1-2.

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, Guidotti 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-Torrel 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-Torrel 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 - Jun 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	Jul 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	Sep 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)

UGA Center for Undergraduate Research Opportunity (CURO) Program; Athens, GA

Caroline Aikens, Ecology Undergraduate Summer 2020

John Mark Simmons, Ecology Undergraduate Spring 2020

Zoe Boyles, Forestry Undergraduate Summer 2019

UGA Disease Ecology Club; Athens GA

Graduate School Application Workshop Dec 2018

UGA SEEDS; Athens GA

Undergraduate CV and Resume Workshop Nov 2018

EcoHealth Alliance Internship Program; New York, NY

Farnaz Farhang, San Diego State University MPH Student Summer 2017

Jordan Kerwin, Brooklyn College, Biology Undergraduate Spring 2017

Helen Chen, Columbia University EEEB Thesis Student 2016

Kristen Weins, New York University Microbiology PhD Student 2016

Cionna Rosenthal, Trinity College Biology & Anthropology Undergraduate Summer 2016

USAID PREDICT2 Fellowships; New York, NY

Dr. Richard Su-irre, Ghana Wildlife Veterinarian July 2017

Aingorn Chaiyes, Kasetsart University PhD Student New York, NY July 2016

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 -
500 Women Scientists	2016 -
International Association for Ecology and Health	2015 -