

## EXPERIENCE

<b>One Health Research Consulting</b> <i>Owner/Principal Consultant</i>	Glen Rock, NJ 2024-present
<b>University of Pretoria</b> <i>Extraordinary Lecturer, Faculty of Veterinary Sciences</i>	Pretoria, South Africa 2024
<b>EcoHealth Alliance</b> <i>Principal Research Scientist, Vector-Borne Diseases</i>	New York, NY 2019-2024
<i>Rift Valley Fever Projects Manager and Co-PI</i>	2014-2024
<i>Senior Research Scientist</i>	2012-2019
<i>PREDICT-2 EHA Surveillance &amp; Outbreak Coordinator</i>	2014-2019 & 2017-2019
<i>PREDICT EHA Latin America Regional Coordinator</i>	2011-2014
<i>Field Veterinarian</i>	2010-2012
<b>Columbia University</b> <i>Adjunct Research Scientist, E3B Department</i>	New York, NY 2010 - 2024

## RESEARCH PROGRAMS

**Rift Valley fever virus (RVFV) research:** Co-PI on Understanding Rift Valley Fever in the Republic of South Africa, DTRA: HDTRA1-19-0033; Reducing the Threat of Rift Valley Fever: Ecology, Epidemiology and Socio-Economics, DTRA: HDTRA1-19-0033; & An Open-Source Framework for Rift Valley Fever Forecasting, Wellcome Trust projects. We 1) Evaluated the RVFV infection dynamics in longitudinal sheep & vector populations; 2) Evaluated population-level exposure to RVFV in people, livestock & wildlife, over time & space; 3) Conducted a One Health cost & benefit analysis of RVF outbreak prevention; 4) Developed an early warning system for RVF, sustainably supported by a government partner, & are expanding across Africa.

**Crimean-Congo hemorrhagic fever virus (CCHFV) research:** PI on Crimean-Congo Hemorrhagic Fever: Reducing an Emerging Health Threat in Tanzania project, DTRA: HDTRA1-20-1-0018. We 1) Conducted a baseline assessment of CCHFV seroprevalence in people, cattle and small mammals & CCHFV presence in ticks; 2) Built up capacity in Tanzania to increase CCHFV diagnosis & the morphological tick identification.

**Viral emerging zoonotic disease research:** USAID PREDICT & PREDICT 2 projects: 1) Build capacity for One Health surveillance for emerging viruses; 2) Discover and characterize new viruses; 3) Assess and predict the risk of viral spillover at different interfaces; 4) Respond to outbreaks of EIDs and unknown pathogens.

## EDUCATION

<b>University of Glasgow</b> <i>PhD Epidemiology</i>	Glasgow, UK October 2015 – June 2020
<b>University of Minnesota</b> <i>Doctor of Veterinary Medicine</i>	St. Paul, MN September 2004 - May 2008
<i>Master of Public Health</i>	May 2005 - November 2007
<b>Princeton, University</b> <i>A.B., Ecology and Evolutionary Biology Cum Laude</i>	Princeton, NJ September 1999 - May 2003

## PUBLICATIONS

40 peer-reviewed publications, see ORCID: [0000-0002-6563-5280](https://orcid.org/0000-0002-6563-5280).

## SKILLS

**One Health Leadership:** Coalesced, coordinated and manage teams representing medicine and epidemiology (human and veterinary), environmental sciences, entomology, conservation & economics and with partners in Asia, Africa, Europe, and the Americas; coordinated with gov't partners.

**Project Development and Management:** Idea generation, Power analysis, Partner engagement, Grant writing & submission (NIH, NSF, USDA, USAID, DOD, USFW & foundations), Wrote SOPs, & questionnaires, Biosafety assessment, Managed IRB and IACUC protocols, Budgeting.

**Research, analytic & data management:** simulation-based power analyses; GLM & GLMMs; Bayesian statistical tools, mixture models, mathematical modeling; standard epidemiological analyses: risk factor analysis, incidence estimates, weighted seroprevalence, & developed reproducible techniques in R for data quality assurance and cleaning to integrate complex One Health data (r package: [ohcleandat](#)).

**Training:** Developed training materials and guides; trained over 317 people from more than 12 countries across Africa, Asia and Latin America; support analysis and manuscript writing for partners; topics: epidemiology, wildlife surveillance, field biosafety, One Health, project SOPs & ethics.