# One Health Faculty

**Epidemiology & Biostatistics Department**

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<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Research Areas</th>
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| Kristen Pogreba-Brown, PhD, MPH | Program Director, One Health | kpogreba@email.arizona.edu | - One Health  
- Food-borne illnesses and food safety  
- Use of routine surveillance data to improve methods for disease detection  
- Pandemic influenza preparedness and mass dispensing  
- Development of real-time syndrome surveillance system for special events |
| Mona Arora, PhD, MSPH | Research Specialist, Principal & Course Instructor | manand@email.arizona.edu | - Health impacts of climate change  
- Public health emergency preparedness and response  
- Needs assessment, decision support systems, and program evaluation  
- Environmental literacy and science communication  
- Other: GIS, strengthening academic-practice partnerships, public health education |
| Leila Barraza, JD, MPH | Assistant Professor | lbarraza@email.arizona.edu | - Public health law and ethics  
- Impact of law and policies on population health  
- Health law and policy |
| Heidi Brown, PhD, MPH | Associate Professor | heidibrown@email.arizona.edu | - Epidemiology and control of vector-borne and zoonotic diseases  
- Identify human disease risk by modeling vector, host and pathogen distributions  
- GIS, spatial statistics, computer-based modeling, remote sensing  
- West Nile, dengue, canine heartworm, valley fever, spatial epidemiology, climate change |
John Ehiri, PhD, MPH, MSc (Econ.)
Professor & Department Chair, Health Promotion Sciences | jehiri@email.arizona.edu
- Social and behavioral aspects of disease control and prevention
- Global maternal, child and adolescent health
- Global health policy
- HIV/STI prevention
- Access to care in low and middle income countries

Katherine Ellingson, PhD
Assistant Professor | kellingson@email.arizona.edu
- Healthcare-associated infections: epidemiology, surveillance & prevention
- Antibiotic stewardship in resource-limited healthcare settings
- Transmission of Clostridium difficile & multidrug-resistant organisms
- Outbreak investigation, policy evaluation & health services research

Kacey Ernst, PhD, MPH
Associate Professor | kernst@email.arizona.edu
- How to enhance the engagement of communities in mosquito-borne disease prevention and control
- Examining the potential for climate change to alter the risk of Aedes-borne diseases in the U.S. - Mexico border region
- mHealth applications for community-based participatory surveillance

Robin Harris, PhD, MPH
Professor | rbharris@email.arizona.edu
- Cancer epidemiology and cancer prevention
- Community-based epidemiological studies - ongoing studies in partnership with several Arizona tribes
- Focus in skin cancer epidemiology as Co-Director of Skin Cancer Institute
- Environmental epidemiological studies (with such exposures as arsenic, air quality, and Helicobacter pylori)

Aminata P Kilungo, PhD
Assistant Professor of Practice | paminata@email.arizona.edu
- Disease prevention and community health related to water safety, security, and the environment
- Understanding challenges related to access to safe and clean water in low-income countries
- Finding sustainable holistic approaches to address water security and safety
- U.S.-Mexico Border environmental health
- Global health
Mary Kay O’Rourke, PhD  
Professor | mkor@email.arizona.edu
- Measures and models contaminant in the environment, assesses exposure to individuals and populations and links to biomarkers or disease outcomes
- Expertise: Exposure Science with a focus on particulate and arsenic, Indoor Air Quality (IAQ), Geospatial relationships, Climate change
- Contaminants of interest: Arsenic, Particulate Matter, Pollen, Fungi, Valley Fever, Ozone, House-dust mites, Metals and Pesticide
- Diseases of interest: Respiratory Disease (Asthma and Allergy)

Stephanie Russo Carroll (Rainie), DrPH, MPH  
Assistant Professor | scrainie@email.arizona.edu
- Co-Director, Center for Indigenous Environmental Health Research
- Associate Director, Native Nations Institute
- Assistant Research Professor, Udall Center for Studies in Public Policy
- Assistant Professor, American Indian Studies Graduate Interdisciplinary Program
- Indigenous environmental health
- Indigenous governance and community health
- Research ethics, Indigenous community/government and academic partnerships
- Collecting and using information for decision making
- Indigenous data sovereignty and data governance

Boris Reiss, PhD, CIH  
Assistant Professor | reissb@email.arizona.edu
- Exposure assessment (statistical, chemical, biological, physical, data based)
- Method development (soft and hardware)
- Using hair as a biomarker of environmental and occupational exposure
- Real-time monitoring of stress
- Calibration i.e. particle monitors

Kelly Reynolds, MSPH, PhD  
Department Director, Community, Environment and Policy  
Professor | reynolds@email.arizona.edu
- Uses quantitative microbial risk assessment to model the health effects of microorganisms and exposures from surfaces, water and food
- Implements field studies to track transmission potentials of microbes in households, offices, schools and hospitals
- Collaborates with stakeholders from government, academia, and industry using a team science approach to infection prevention
- Works with a variety of healthcare facilities to reduce healthcare acquired infections and prevent waterborne *Legionella* outbreaks
- Develops methods for real-time monitoring of microbial contaminants in the environment using smartphone optics
Jonathan Sexton, MS, PhD
Laboratory Manager/Research Specialist Senior | sextonj@email.arizona.edu

- Studies the occurrence and control of environmental pathogens
- Uses tracer studies to understand microbial movement throughout a range of different settings
- Uses quantitative microbial risk assessment to model the effectiveness of interventions in a variety of workplace settings
- K-12 outreach coordinator for the Environment, Exposure Science and Risk Assessment Center

Marc Verhougstraete, PhD
Assistant Professor | mverhougstraete@email.arizona.edu

- Co-director of the collaborative Environmental, Exposure Science, and Risk Assessment Center
- Explores the connections between microorganisms, the environment, and human health
- Examines the source, fate, and transport of microorganisms through indoor, water, and food systems
- Defining the connection between metals and microbial exposures from drinking water
- Applies quantitative microbial risk assessment to define safe exposure levels in beaches, irrigation water, and hospitals

Mel & Enid Zuckerman College of Public Health