



# ONE HEALTH FACULTY

## EPIDEMIOLOGY & BIostatISTICS DEPARTMENT



**Kristen Pogreba-Brown, PhD, MPH**  
**Program Director, One Health**

Assistant Professor | [kpogreba@email.arizona.edu](mailto: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, MsPH**

Research Specialist, Principal & Course Instructor | [manand@email.arizona.edu](mailto: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](mailto: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**

Assistant Professor | [heidibrown@email.arizona.edu](mailto: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



Mel & Enid Zuckerman  
College of Public Health



**Robert Canales, PhD**

Assistant Professor | [rcanales@email.arizona.edu](mailto:rcanales@email.arizona.edu)

- ▶ Applies computational methods to create multimedia exposure and risk models
- ▶ Translates systems science and mathematical concepts to environmental health applications



**John Ehiri, PhD, MPH, MSc (Econ.)**

Professor & Department Chair, Health Promotion Sciences | [jehiri@email.arizona.edu](mailto: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](mailto: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](mailto: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



**Stephanie Griffin, PhD, CIH**

Assistant Professor | [scgriffin@email.arizona.edu](mailto:scgriffin@email.arizona.edu)

- ▶ Industrial Hygiene and Environmental Health exposure assessment (thermal stress, noise and chemicals)
- ▶ Cancer prevention and chemical exposure assessment in the fire service
- ▶ Risk management implementation and evaluation in mining and the fire service
- ▶ Health economic evaluation of health and safety interventions



**Robin Harris, PhD, MPH**

Professor | [rbharris@email.arizona.edu](mailto: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**

Lecturer | [paminata@email.arizona.edu](mailto:paminata@email.arizona.edu)

- ▶ Infectious diseases prevention using Water, Sanitation and Hygiene (WaSH) interventions
  - ▶ Understanding challenges related to access to safe and clean water in low-income countries
  - ▶ Finding sustainable holistic approaches to address water security and safety issues in underserved communities
  - ▶ U.S-Mexico Border environmental health
  - ▶ Global health
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### **Mary Kay O'Rourke, PhD**

Professor | [mkor@email.arizona.edu](mailto: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)
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### **Stephanie Rainie, DrPH, MPH**

Assistant Professor | [scrainie@email.arizona.edu](mailto: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
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### **Boris Reiss, PhD, CIH**

Assistant Professor | [reissb@email.arizona.edu](mailto: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
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### **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

- ▶ Explores the connections between microorganisms and their environment
- ▶ Examines the sources, fate, and transport of microorganisms through indoor environments, water, and food
- ▶ Looking at the connection between drinking water quality and climate change to enhance water treatment protection in the southwest
- ▶ Using Quantitative Microbial Risk Assessment to define beach safety and reduce the occurrence of hospital acquired infections
- ▶ Collaborative research as a member of the Environmental, Exposure Science, and Risk Assessment Center

