THE UNIVERSITY OF ARIZONA

ONE HEALTH FACULTY

EPIDEMIOLOGY & BIOSTATISTICS DEPARTMENT

Kristen Pogreba-Brown, PhD, MPH
Program Director, One Health
Assistant Professor | 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

Mel & Enid Zuckerman College of Public Health

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