



# ENVIRONMENTAL HEALTH SCIENCES FACULTY

COMMUNITY, ENVIRONMENT & POLICY DEPARTMENT



**Aminata Kilungo, PhD**  
**Program Director, Environmental Health Sciences**

Assistant Professor of Practice | [paminata@email.arizona.edu](mailto: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



**Paloma Beamer, PhD**

Associate Professor | [pbeamer@email.arizona.edu](mailto:pbeamer@email.arizona.edu)

- ▶ Exposure science and risk assessment, including collection and analysis of exposure factors and modeling
- ▶ Environmental health disparities focused on children, Indigenous communities, low-wage immigrant workers and those in the US-Mexico region
- ▶ Assessing the role of environmental risk factors in development of respiratory disease



**Jeff Burgess, MD, MS, MPH**

Professor and Associate Dean for Research | [jburgess@email.arizona.edu](mailto:jburgess@email.arizona.edu)

- ▶ Health effects and mitigation of toxic exposures
- ▶ Firefighter and mining health and safety
- ▶ Risk management and emergency preparedness
- ▶ Indigenous environmental health disparities



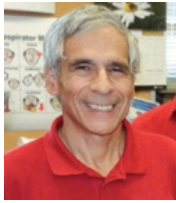
**Stephanie Griffin, PhD, CIH**

Joint Faculty | [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



Mel & Enid Zuckerman  
College of Public Health



### **Phil Harber, MD, MPH**

Professor | pharber@email.arizona.edu

- Occupational-environmental lung disease, respiratory protection, human physiology
- Occupational health services: Quality and policy
- Health informatics: Quantitative decision analysis, natural language processing, social media research, clinical decision support systems (CDS)
- Director, Occupational Health Office, and Medical Director, Occupational 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)



### **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 Chair, 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



### **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