



EPIDEMIOLOGY FACULTY

EPIDEMIOLOGY & BIostatISTICS DEPARTMENT



Kacey Ernst, PhD, MPH
Program Director, Epidemiology

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



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



Zhao Chen, PhD, MPH

Professor & Department Chair, Epidemiology & Biostatistics | zchen@email.arizona.edu

- ▶ Women's health and healthy aging
- ▶ Body composition assessments and risk predictions
- ▶ Epidemiology, prevention and management of osteoporosis, anemia, sarcopenia, obesity, and other musculoskeletal diseases
- ▶ Biomarker and genetic association research
- ▶ Global and ethnic health



Leslie Dennis, PhD, MS

Professor | ldennis@email.arizona.edu

- ▶ Melanoma and prostate cancer etiology & prevention as related to environmental risk
- ▶ Molecular analyses of trace elements (arsenic) and sexually transmitted infections
- ▶ Meta-analyses as related to risk factors for cancer
- ▶ Behavioral epidemiology
- ▶ Non-melanoma skin cancer etiology & prevention



Mel & Enid Zuckerman
College of Public Health



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
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Leslie Farland, ScD, MSc

Assistant Professor | lfarland@email.arizona.edu

- ▶ Women's reproductive health and chronic disease risk
 - ▶ Etiology and risk factors for endometriosis, infertility, and polycystic ovary syndrome (PCOS)
 - ▶ Disparities in access to infertility care and fertility treatment utilization
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Janet Foote, PhD

Assistant Professor | jfoote@email.arizona.edu

- ▶ Nutrition, dietary assessment, community & recreational sport
 - ▶ Cancer prevention, detection, and education
 - ▶ Member of the COM-Phx Biostatistical & Study Design support Services
 - ▶ Team projects: homeless youth health, traumatic brain injury, and medical marijuana
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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*)
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Elizabeth Jacobs, PhD

Professor | jacobse@email.arizona.edu

- ▶ Cancer epidemiology
 - ▶ Genetic and lifestyle risk factors for colorectal cancer
 - ▶ Relationships between vitamin D and cancer
 - ▶ Vaccine exemptions
 - ▶ Colorectal cancer screening
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Yann Klimentidis, PhD, MS

Assistant Professor | yann@email.arizona.edu

- ▶ Genetics of cardiometabolic traits and diseases, health disparities
- ▶ Uses tools such as genetic admixture, genetic association, and gene*environment interactions to better understand etiology of disease and population differences in disease risk



Sydney Pettygrove, PhD

Associate Professor | sydneyp@email.arizona.edu

- ▶ Surveillance and epidemiology of birth defects and developmental disabilities
 - ▶ Environmental epidemiology
 - ▶ Co-Principal Investigator and Epidemiologist for the Arizona Developmental Disabilities Surveillance Program (ADDSP)
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Kristen Pogreba-Brown, PhD, MPH

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
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