

Epidemiology PhD Faculty List

Name	Track*	Research Expertise
Bruce Alexander, PhD, MS	CBE	Occupational and environmental epidemiology; environmental determinants of injury, cancer, respiratory health, reproductive health; global health; application of biological markers in epidemiological research; exposure models for occupational and environmental epidemiology
Michele Allen, MD, MS	SBE	Community-based participatory approaches to developing health promotion and substance use prevention interventions among Latino and other immigrant adolescents and their families; health disparities research; and community-based participatory approaches and methods
Jason Baker, MD, MS	CBE	Studying the consequences of persistent immune depletion, inflammation and coagulation abnormalities for non-AIDS defining outcomes among HIV+ patients. Specifically focusing on mechanisms and treatment strategies targeting aging complications, such as cardiovascular disease, both through pathogenesis oriented studies and multi-center cohorts and trials
Nicole Basta, PhD, MPhil	CBE	Infectious disease epidemiology; evaluating the impact of vaccines and other interventions; epidemiologic methods; clinical epidemiology; maternal and child health; global health; health disparities; evidence-based public health policy
Alan P. Bender, DVM, PhD	CBE	Chronic disease surveillance and analytic epidemiology; widely quoted authority on interpretation of cancer cluster statistics and has been PI on many occupational studies at the Department of Health
Jeff Bender, DVM	CBE	Antimicrobial resistance; food safety; zoonoses and emerging diseases
Jesse Berman, PhD	SBE	Environmental epidemiologist, understanding the relationship between human health and complex environmental exposures. Research revolves around the use of spatial analysis to improve exposure assessment and understanding how environment is associated with disease. Particular interest in the way weather events, climate, and air pollution influence population-level health. Work emphasizes policy relevant outcomes that can inform decision making to better protect public health.
David Boulware, MD, MPH, CTropMed	CBE	Understanding pathogenesis of HIV immune reconstitution inflammatory syndrome (IRIS), an important complication of HIV therapy that has recently emerged with the roll out of antiretroviral therapy in Africa. In particular, translational research through translating the understanding of disease pathogenesis into practical clinical interventions to improve outcomes
Sonya Brady, PhD	SBE	Health risk behavior during adolescence and young adulthood; developmental influences on risk taking; socioeconomic and ethnic disparities in consequences of risk taking; mechanisms linking stressful life circumstances to health risk behavior and factors promoting resiliency; promotion of health protective behavior; public policies affecting adolescent health
Lin Yee Chen, MD, MS	CBE	The relationship of atrial fibrillation (AF) to outcomes such as stroke, dementia, and sudden cardiac death, and to elucidate underlying mechanisms; the determinants and prognostic significance of subclinical AF and AF burden; novel strategies to prevent AF, reduce AF burden, and prevent AF-related outcomes
Timothy Church, MS, PhD	CBE	Cancer screening, prevention, and causes; epidemiologic study design; cardiac disease and medical devices
Sarah Cusick, PhD	CBE	International maternal and child nutrition, the interaction between nutritional deficiencies and infectious disease, and the effect of these interactions on child health and long-term cognitive development
Richard Danila, PhD	CBE	Emerging infectious diseases including foodborne and bacterial diseases; preparedness for bioterrorism
Ellen Demerath, PhD	CBE	Body composition and obesity assessment; developmental determinants of cardiovascular disease risk; lifecourse epidemiology; genetic epidemiology of obesity, diabetes, and coronary heart disease; biomarkers of biological senescence
Ryan Demmer, PhD	CBE	Microbial etiologies of chronic diseases with emphasis on the interface between the microbiome, type 2 diabetes and cardiovascular disease. Microbiome, Inflammation, atherosclerosis, cardiovascular disease, insulin resistance, type 2 diabetes mellitus
Paul Drawz, MD, MHS, MS	CBE	Relationship between ambulatory blood pressure, chronic kidney disease, and adverse cardiovascular and renal outcomes; masked hypertension; quality of care related to BP measurement; acute kidney injury
Susan Duval, PhD	CBE	Cardiovascular and diabetes epidemiology; biostatistical methods; meta-analysis; publication bias; statistical consulting
Marla Eisenberg, ScD, MPH	SBE	Influences on adolescent sexual behaviors; health issues of gay, lesbian and bisexual youth; body image and weight control behaviors; teasing and bullying
Eva Enns, PhD	SBE	Health policy modeling; disease transmission network structures and dynamics; social networks and health
Kristine Ensrud, MD, MPH	CBE	Epidemiology of age-related conditions including osteoporosis/fractures, menopausal symptoms, and sleep disorders
Darin Erickson, PhD	SBE	Alcohol prevention and etiology; latent variable analysis; longitudinal and time series analysis
Gregory Filice, MD	CBE	Antimicrobial therapy, specifically strategies to optimize prescribing to improve outcomes and prevent resistance

<u>John Finnegan, Jr., PhD</u>	SBE	Media communication and public health; community campaigns; media agenda building; digital information technology and its impact on public health
<u>Aaron Folsom, MD, MPH</u>	CBE	Cardiovascular disease epidemiology; heart disease surveillance and risk factors
<u>Simone French, PhD</u>	SBE	Social and environmental influences on eating and physical activity behaviors; community-based strategies for eating behavior change; adolescent nutrition and physical activity
<u>Jayne A. Fulkerson, PhD</u>	SBE	Family meals; obesity prevention; risk and protective factors in the development of eating disorders and mental health among children and adolescents; family-based health promotion; research methods, psychometrics and instrument development
<u>Myron Gross, PhD</u>	CBE	Antioxidants, oxidative stress and genetic susceptibility in coronary heart disease; genetic susceptibility and DNA repair in breast and pancreatic cancer; role of micronutrients and flavonoids in aging and disease; bio-markers of dietary intakes
<u>Lisa Harnack, DrPH, RD</u>	CBE/ SBE	Nutritional epidemiology; nutritional assessment
<u>Craig Hedberg, PhD</u>	CBE	Food safety and infectious diseases
<u>David Jacobs, Jr., PhD</u>	CBE/ SBE	Cardiovascular disease epidemiology; nutritional epidemiology
<u>Pamela Jo Johnson, MPH, PhD</u>	SBE	Health disparities; access to care and healthcare equity; complementary and integrative healthcare; health/wellbeing promotion; mental health; survey research; national health survey data (e.g., NHIS, NAMCS, MIDUS)
<u>Rhonda Jones-Webb, DrPH</u>	SBE	Alcohol studies; alcohol policy as a prevention strategy; minority health issues; behavioral epidemiology
<u>Aaron Kelly, PhD</u>	CBE	Cardiovascular disease prevention in children with a focus on the identification and treatment of cardiometabolic risk factors
<u>Amy Kircher, DrPH</u>	CBE	Identification and warning of disruptions through data fusion and analytics and works to defend our food system through research and education
<u>Erin Krebs, MD, MPH</u>	CBE	Chronic pain management, opioid effectiveness and safety, pain assessment, women's health
<u>Shalini Kulasingam, PhD</u>	CBE/ SBE	Infectious diseases, sexually transmitted infections, human papillomavirus (HPV), cervical cancer, cancer screening, vaccines, public health policy, decision and cost-effectiveness modeling
<u>Kamakshi Lakshminarayan, MD, PhD</u>	CBE	Stroke epidemiology; quality of stroke care and long term stroke outcomes; interventions to improve stroke outcomes; stroke genetics
<u>Harry Lando, PhD</u>	SBE	Global issues in tobacco reduction; smoking cessation; treatment of medically compromised smokers
<u>Melissa N. Laska, PhD</u>	SBE	Environmental and behavioral determinants of excess weight gain and obesity during childhood, adolescence and young adulthood
<u>DeAnn Lazovich, PhD Director of Graduate Studies (DGS)</u>	CBE/ SBE	Cancer prevention and control; cancer epidemiology
<u>Catherine Lexau, PhD, MPH</u>	CBE	Antibiotic resistance, including methicillin resistant staph aureus; epidemiology of pneumococcal disease and impact of pneumococcal vaccine
<u>Alan Lifson, MD, MPH</u>	CBE	HIV/AIDS; international health; infectious disease epidemiology
<u>Amy M. Linabery, MS, PhD</u>	CBE	Clinical and population-based research in pediatric neuroscience, including concussions, epilepsy, neurosurgery, headache, and central nervous system tumors and their associated neurocognitive, emotional and other co-morbidities
<u>Jennifer Linde, PhD</u>	SBE	Obesity prevention and intervention, weight control behaviors, weight loss goals, public health messages
<u>Russell Luepker, MD, MS</u>	CBE/ SBE	Cardiovascular disease epidemiology and prevention; health behavior; community trials; clinical trials
<u>Pamela Lutsey, PhD, MPH</u>	CBE	Serum vitamin D, sleep disordered breathing, coagulation factors, diet, and venous thromboembolism
<u>Richard MacLehose, PhD</u>	CBE/ SBE	Epidemiologic methods, Bayesian methods, biostatistics, reproductive epidemiology, environmental epidemiology
<u>George Maldonado, PhD, MSPH</u>	CBE	Epidemiologic methodology
<u>Erin Marcotte, PhD</u>	CBE	Genetic, molecular, and environmental causes of childhood leukemia and hepatoblastoma; how maternal and early life nutrition impact childhood cancer risk and pediatric outcomes among children born by cesarean section
<u>Susan M. Mason, PhD, MPH</u>	SBE	Psychosocial stress and stress mechanisms, women's health, maternal and child health, health disparities, exposure to violence
<u>Claudia Munoz-Zanzi, MV, MPVM, PhD</u>	CBE	Infectious disease
<u>Joseph Neglia, MD, MPH</u>	CBE	Pediatric hematology/oncology
<u>Heather Nelson, PhD, MPH</u>	CBE	Cancer susceptibility and etiology using both laboratory and epidemiologic tools; gene-environment interactions; skin cancer, mesothelioma, and other exposure-related malignancies
<u>Toben Nelson, ScD</u>	SBE	Health policy, organizational change, health behavior during developmental transitions, influence of sports participation on health, social determinants of health, program evaluation, prevention of alcohol-attributable harm, physical activity promotion, obesity prevention, motor vehicle safety.

<u>Dianne Neumark-Sztainer, PhD, MPH</u>	SBE	Adolescent health and nutrition, obesity and eating disorder prevention, health behavior change, nutrition education program design and evaluation
<u>Ruby Nguyen, PhD</u>	CBE	Women's health, etiology of reduced fertility, infertility and later disease, intersection of genital tract infections on reproduction, pregnancy-related morbidity, and epidemiologic methods in studies of fertility
<u>J. Michael Oakes, PhD</u>	CBE/ SBE	Quantitative methods; social epidemiology; research ethics
<u>Michael Osterholm, PhD, MPH</u>	CBE	Disease surveillance, epidemiology, health communications, infectious disease, infectious disease: food-borne, HIV / AIDS, influenza, STDs, policy / politics, public health preparedness, vaccines
<u>Theresa L. Osypuk, SD, SM</u>	SBE	Disparities, epidemiology: social, policy / politics, sociology, tobacco: policy
<u>James Pankow, PhD, MPH</u>	CBE	Cardiovascular disease epidemiology; genetic epidemiology; diabetes epidemiology
<u>Mark Pereira, MPH, PhD</u>	CBE/ SBE	Nutrition and physical activity in the prevention of obesity; type 2 diabetes and cardiovascular disease
<u>Andres Perez, DVM, PhD</u>	CBE	Spatial analysis, modeling; veterinary epidemiology; international medicine; economics and development
<u>Jenny Poynter, PhD</u>	CBE	Molecular and genetic epidemiology of cancer
<u>Anna Prizment, PhD</u>	CBE	Risk factors for cancer (e.g. obesity, diabetes) and survival after cancer diagnosis, adult solid tumors (colorectal, gastrointestinal, pancreatic, ovarian, lung), biomarkers of inflammation, allergy and immune response
<u>Marizen Ramirez, PhD</u>	SBE	My work has a special focus on society's most vulnerable population at risk for violence (especially bullying) and injuries: children, persons with disabilities, agricultural workers, minorities, and rural populations
<u>Michael W. Ross, MD, PhD, MPH</u>	SBE	LGBT health, HIV prevention research, HIV/AIDS risks, East Africa
<u>Simon Rosser, PhD, MPH</u>	SBE	HIV prevention research; human sexuality; sex offending and religious identity; internet-based research; e-public health
<u>Justin Ryder, PhD</u>	CBE	Clinical translational pediatric obesity researcher with 2 primary research focuses: 1) To understand the underlying mechanisms of how obesity effects chronic disease risk, specifically cardiovascular disease and fatty liver disease, in order to improve risk-stratification; 2) To develop and evaluate novel treatments (i.e. pharmacotherapy and surgery) for obese youth in an effort to reduce chronic disease risk (i.e. fatty liver diseases and cardiovascular disease)
<u>Pamela Schreiner, PhD</u>	CBE	Cardiovascular disease etiology related to visceral fat accumulation, dyslipidemia, and perimenopause; structural and functional brain MRI; applied statistical methodology; human-animal interaction research
<u>Kelly Searle, PhD, ScM</u>	CBE	Infectious diseases, specifically malaria and the conduct of spatial studies
<u>Nancy Sherwood, PhD</u>	SBE	Obesity prevention and treatment in children and adults
<u>Randall Singer, DVM, MPVM, PhD</u>	CBE	Infectious disease epidemiology; ecologic approach to disease systems
<u>Jaime Slaughter-Acey, PhD</u>	SBE	Health equity, maternal and child health/perinatal epidemiology, social determinants of health, racism, colorism, life-course perspective, perinatal health, women's health, prenatal care, prenatal home visiting
<u>Kumi Smith, PhD</u>	CBE	HIV, syphilis, hepatitis C virus, other sexually transmitted infections, prevention science, interventions, LGBTQ+ health disparities, HIV stigma, marginalized populations, transmission dynamics, population mixing
<u>Jon J. Snyder, PhD, MS</u>	CBE	Chronic renal disease and especially end- stage renal disease
<u>Alicen Spaulding, PhD, MPH</u>	CBE	Infectious disease epidemiology: global health; epidemiologic study design and methods; pediatric critical care outcomes; HIV/AIDS epidemiology; systematic reviews and meta-analyses; clinical epidemiology; epidemiology of antibiotic resistance; pediatric antibiotic stewardship
<u>Logan Spector, PhD</u>	CBE	Etiology of childhood cancer; design, conduct; analysis of epidemiologic studies
<u>Srinand Sreevatsan, PhD, MVSc, MPH</u>	CBE	Interests in ecology, evolution, and epidemiology of infectious agents; uses combination of epidemiological, evolutionary, and molecular tools to address pathogen-host interactions, population genetic structure of microbes, and investigations on molecular mechanisms host adaptation, enhanced transmissibility and virulence
<u>Lyn Steffen, PhD, MPH, RD</u>	CBE	Cardiovascular disease epidemiology; nutritional epidemiology; surveillance of cardiovascular disease risk factors
<u>Steven Stovitz, MD, MS, FACSM</u>	CBE	Family medicine, sports medicine, adult and pediatric obesity
<u>WeiHong Tang, PhD, MS, MD</u>	CBE	Cardiovascular disease epidemiology, genetic epidemiology of chronic disease with an emphasis on cardiovascular disease, metabolic syndrome, diabetes, and obesity.
<u>Brent C. Taylor, PhD, MPH</u>	CBE	Clinical epidemiology, systematic reviews, health care utilization
<u>Bharat Thyagarajan, MD, PhD</u>	CBE	Role of mitochondria in determining breast and colorectal cancer susceptibility. Role of mitochondria in determining outcomes after allogeneic hematopoietic cell transplantation (HCT)
<u>Traci Toomey, PhD, MPH</u>	SBE	Policy research; community organizing; prevention of alcohol and tobacco-related problems; intentional and unintentional injury prevention

Beth Virnig, PhD, MPH	CBE	Administrative data for cancer surveillance and studies of treatment patterns
Rachel Widome, PhD, MHS	SBE	Tobacco policy with a special focus on underserved populations, e.g., veterans, military personnel