Our department provides rigorous training in the fundamental sciences underlying public health practice. Our mission is to improve health and reduce health disparities in local communities, the state of Maryland, and the nation.

Our epidemiology faculty have multi-faceted expertise in the epidemiology of infectious and chronic disease, with particular focus in the areas of HIV/sexually transmitted infections, cancer, health disparities, cardiovascular disease, obesity/physical activity, and sexual and reproductive health. We also specialize in social and behavioral determinants of health, aging, cultural competency, and community-based interventions.

Our biostatistics faculty have research interests in biostatistics, epidemiology, and bioinformatics. We apply statistical techniques to analyze and interpret public health data through survival and longitudinal analysis, computational statistics, statistical analysis of genomic and proteomic data, machine learning, neuroimaging statistics, network meta-analysis, missing data analysis, and Bayesian hierarchical methods.

Current research projects include:

- testing a randomized controlled trial intervention to improve quality of life among Korean American breast cancer survivors
- using a social network approach to study risky behaviors for HIV/STIs
- synthesizing multiple types of evidence using Bayesian hierarchical models
- developing sample size and power calculations for genomic studies using next generation deep sequencing platforms
- utilizing geotagged social media data (such as tweets) to construct national neighborhood indicators
GRADUATE DEGREE PROGRAMS

An MPH in Epidemiology or Biostatistics prepares you to work as a practitioner, researcher, administrator or consultant in a health care setting.

Master of Public Health, Epidemiology
The MPH in epidemiology emphasizes training in the application of epidemiologic methods to the study of disease occurrence, prevention and control.

Master of Public Health, Biostatistics
Students with an MPH in biostatistics develop skills to implement research studies of human health and disease; design data management systems; interpret quantitative data; and use statistical reasoning to address public health problems.

Both MPH programs accommodate full and part-time students.

Doctor of Philosophy, Biostatistics and Bioinformatics
Biostatistics and bioinformatics are important research fields in statistics with immensely broad applications in public health, medical and biological research. Bioinformatics is the science of developing and employing computational tools and techniques to analyze complex biological data, such as genome sequences, and has significant overlap with biostatistics. Students in our PhD program will be equipped with the knowledge and skills to take advantage of the increasing research opportunities in this rapidly developing field.

Doctor of Philosophy, Epidemiology
Prepare for a career in epidemiologic research in academia, government or the private sector. Our students will master essential core knowledge in the principles and methodology of epidemiological research and practice. Students may design their own research specialization or they may apply to one of our two specializations: 1) Social Epidemiology, and 2) Environmental Epidemiology.

THE SCHOOL

Ranked 22nd among all schools of public health by U.S. News & World Report in 2015, we are a dynamic and growing school located at one of the nation’s top-ranked public research universities. Our vision is to be a leader in the discovery, application, and dissemination of public health knowledge in the state of Maryland, the nation, and the world. Faculty and students are involved in a broad range of scientific endeavors that advance knowledge through basic and applied research aimed at understanding and enhancing health and well-being across the lifespan. With a strong emphasis on promoting health equity and justice, many of our programs involve community-based participatory research and translational investigations, leading to dissemination of research findings into practice for personal and population health.

With over 2,500 students in 25 different degrees and academic programs, our School of Public Health prepares students to tackle longstanding and emerging public health issues and make meaningful contributions to the health and welfare of individuals and society. We do this utilizing the tools of traditional public health disciplines, and in collaboration with fields as varied as engineering, arts and humanities, business and public policy.

THE UNIVERSITY

A global leader in research, entrepreneurship and innovation, Maryland is ranked No. 21 among public universities by U.S. News & World Report and No. 14 among public universities by Forbes. The Institute of Higher Education, which ranks the world’s top universities based on research, puts Maryland at No. 38 in the world, No. 29 nationally and No. 13 among U.S. public research institutions. Located “inside the beltway” just minutes from the nation’s capital, the University of Maryland, College Park campus provides unparalleled access to unique opportunities for internships and research experiences in public health, including placements at the National Institutes of Health (NIH), the CDC Washington Office, other agencies and offices in the U.S. Department of Health and Human Services, Children’s National Medical Center, the Maryland Department of Health and Mental Hygiene, and many other national, state, and local health agencies. In addition to being a vibrant hub of research and policy, the D.C. area’s rich and diverse culture make it an especially lively, friendly, and accessible community where students, faculty and staff can thrive professionally and personally.

ADMISSIONS DEADLINES

For deadlines and application instructions, please visit sph.umd.edu/gradadmissions

FOR MORE INFORMATION

sph.umd.edu/epib
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