

# Applied Environmental Health (MIAEH)



GREG RASPANTI,  
MPH '12, PHD CANDIDATE

**Inspired by his MPH in Environmental Health at UMD, Greg is pursuing a PhD in Toxicology and Environmental Health, with Dr. Amir Sapkota. Greg is interested in indoor air pollution and cancer; he also served as a teaching assistant for the Global Public Health Scholars program with Dr Elisabeth Maring.**



RIANNA MURRAY,  
MPH 2013, PHD CANDIDATE

**Following her MPH in Environmental Health at UMD, Rianna's interest in environmental justice prompted her to pursue a PhD with Dr. Sacoby Wilson, focusing on exposure to contaminants faced by use of the Anacostia River. Rianna is also involved in Public Health without Borders.**

**O**ur Institute conducts groundbreaking research to better understand the role of environmental factors on human health and to inform public health interventions through both policy change and community-based participatory research (CBPR).

MIAEH's unique combination of faculty expertise allows us to make an impact on environmental public health locally, nationally and internationally, with ongoing activities in the US, Africa, Asia and Europe. Recent and ongoing faculty activities include:

- Farming practice and prevalence of antibiotic resistance (*Dr. Amy Sapkota*)
- Air pollution and asthma (*Drs. Amir Sapkota, D Milton, R Puett*)
- Climate change (*Drs. Amir Sapkota, S Wilson*)
- Pesticides and children's environmental health (*Dr. L Quiros Alcala*)
- Dietary fungal toxins and child growth faltering (*Dr P Turner*)
- Public health impacts of fracking (*Drs. D Milton, S Wilson, Amir Sapkota*)
- Indoor air, bioaerosols & influenza transmission (*Drs. D Milton, M Grantham*)
- Exposome characterization & exhaled breath biomarkers (*Drs. D Milton, Amir Sapkota*)
- Biological mechanisms underlying the relationship between cardiovascular disease and air pollution (*Dr. R Puett*)
- Health disparities/environmental justice issues in DC and the Carolinas (*Dr. S Wilson*)
- Global Public Health Scholars and Public Health without Borders (*Drs E Maring and M Haider*)
- Social determinants of multiple food contaminants and risk assessment (*Dr. Payne-Sturges*)
- Built environment, environmental exposure and chronic disease (*Drs. S Wilson and R Puett*)
- Validation of multi-toxin exposure assessment biomarker technologies for developing countries (*Dr. P Turner*)

## GRADUATE DEGREES OFFERED:

### Master of Public Health, Environmental Health Sciences

A professional degree for career advancement or a training ground for the next generation of environmental health research experts. Our MPH explores the critical relationships between environmental exposures and health. Our faculty and students support the development of effective environmental health policy, a process reinforced by close mentorship and practical experiences through internships focused on translating research into action.

### Doctor of Philosophy, Toxicology and Environmental Health

Master an essential core knowledge of toxicology, environmental health, occupational hygiene, epidemiology and biostatistics. Through taught courses, field studies and laboratory rotations, students gain experience and tools needed to specialize in the broader area of toxicology and environmental health.

### Doctor of Philosophy, Epidemiology

Our faculty additionally mentor doctoral candidates on the Environmental Epidemiology track of the Epidemiology PhD program, within the School of Public Health.

### Certificate in Global Health, post-baccalaureate

Learn about the issues, policies, and practices that enable individuals who may not have public health backgrounds to work effectively in agencies and programs providing global health services. This 12-credit program emphasizes translational health issues and combining population-based prevention methods with evidence-based, community-supported initiatives.

## THE SCHOOL

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 2,000 students in more than 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 research and collaboration with major federal institutions and NGOs, including:

- Centers for Disease Control – National Center for Health Statistics
- Chesapeake Bay Foundation
- Children's Environmental Health Network
- Environmental Protection Agency
- Food and Drug Administration
- Maryland Department of Health and Mental Hygiene
- Maryland Department of the Environment
- National Center for Health Statistics
- National Institutes for Health
- National Science Foundation
- United States Department of Agriculture

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, accessible community for students to thrive professionally and personally.

## ADMISSIONS DEADLINES

All admissions deadlines are for fall 2016 matriculation.

MPH, Environmental Health Sciences  
*International applicants*  
12/15/2015

*Domestic applicants*  
12/15/2015 (preferred)  
6/1/2016 (final)

PhD, Toxicology and Environmental Health  
11/15/2015 (preferred)  
2/15/2016 (final)

**MORE INFORMATION**  
[www.sph.umd.edu/miaeh](http://www.sph.umd.edu/miaeh)

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