



SPH RESEARCHER

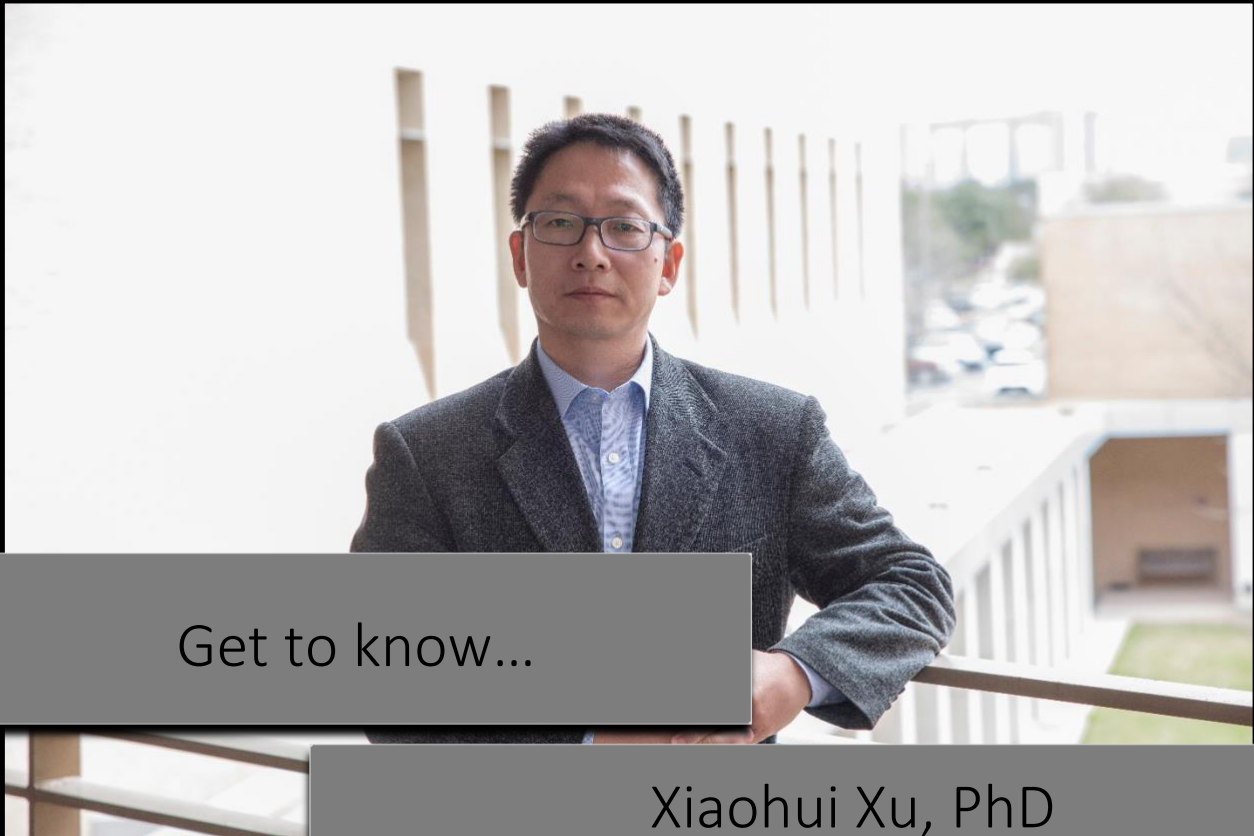
SPOTLIGHT

October 2019

Xiaohui Xu, PhD

Epidemiology and Biostatistics





Get to know...

Xiaohui Xu, PhD

Q: What is the strangest/most interesting/surprising place you have ever found yourself in the course of your research?

A: Virtual Reality

In working with the Center for Health & Nature, we are exploring the impact of natural scenery exposure in virtual reality settings on stress relief among cancer patients undergoing chemotherapy treatment.



Q: What has been the biggest success to date for you with your research?

A: My contribution is to conduct epidemiologic research to better understand adverse effects of ambient air pollution exposures nationally and internationally.

Q: What sparked your interest in epidemiology as a field of study?

A: My curiosity of chronic disease burden, such as cancer and cardiovascular diseases, on populations sparked my interest in the field of epidemiology.

Q: What sort of impact do you hope your research will have?

A: My hope is the research we collect will have an impact on improving population health, reducing disease burdens and promoting healthy communities.

Q: What advice would you give a student interested in pursuing research?

A: Identify what it is you are most curious about and study that field to find gaps of knowledge and develop solutions to address them. In addition, focus on what your major is however, do not hesitate to broaden and seek opportunities where your concentration may overlap with other fields. Within those intersections await tomorrow's breakthroughs.



Research Interests

- Air Pollution Epidemiological Studies
- Pre-existing Health Conditions and Co-exposure
- Maternal and Child Health
- Spatial Epidemiology
- Environmental Exposure Assessment

Recent Publications

Zhang X, Johnson N, Carrillo G, **Xu X**. Decreasing Trend in Passive Tobacco Smoke Exposure and Association with Asthma in U.S. Children. *Environmental Research* 2018;166:35-41.

Zhang X, **Xu X**, Zhong Y, Power MC, Taylor BD, Carrillo G. Serum Folate Levels and Urinary Arsenic Methylation Profiles in the US Population: NHANES, 2003-2012. *Journal of Exposure Science & Environmental Epidemiology* 2018.

Power MC, Lamichhane AP, Duanping L, **Xiaohui X**, Jack CR, Gottesman RF, Thomas M, Stewart JD, Yanosky JD, Whitsel EA. The Association of Long-Term Exposure to Particulate Matter Air Pollution with Brain MRI Findings: The ARIC Study. *Environmental Health Perspectives* 2018.

Li F, Hu H, Gong J, **Xu X**, Yan Y, Chen X. Probability Sampling by Connecting Space with Households using GIS/GPS Technologies. *Journal of Survey Statistics and Methodology* 2018;6(2):149-168.

Zheng Li, PhD; Xu X, MD, PhD; Lindsay A Thompson, MD, MS; Heather E Gross, MEd; Elizabeth A Shenkman, PhD; Darren A DeWalt, MD, MPH. Longitudinal effect of ambient air pollution and pollen exposure on asthma control: the PROMIS® Pediatric Asthma Study. *Acad Pediatr*. 2019 Aug;19(6):615-623. doi: 10.1016/j.acap.2019.03.010.

Power, MC, Lamichhane, AP, Liao, D, Xu, X, Jack, CR, Gottesman, RF, Mosley, T, Stewart, JD, Yanosky, JD, Whitsel, EA. The association of long-term exposure to particulate matter air pollution with brain MRI findings: the ARIC study. *Environ Health Perspect*. 2018 Feb 16;126(2):027009.

Carrillo G, Perez Patron MJ, Johnson N, Zhong Y, Lucio R, Xu X. Asthma prevalence and school-related hazardous air pollutants in the US-México border area. *Environ Res*. 2018 Apr;162:41-48.

Hu H, Ha S, Xu X*. Ozone and hypertensive disorders of pregnancy in Florida: Identifying critical windows of exposure. *Environ Res*. 2017 Feb;153:120-125.

Ha S., Hu H., Roth J., Kan H., Xu X*. Associations Between Residential Proximity to Power Plants and Adverse Birth Outcomes. *Am J Epidemiol*. 2015 Aug 1;182(3):215-24. [PMID:26121989 PMCID:PMC4517698]

Chen R, Zhao A, Chen H, Zhao Z, Cai J, Wang C, Yang C, Li H, Xu X, Ha S, Li T, Kan H. Cardiopulmonary benefits of reducing indoor particles of outdoor origin: a randomized double-blind crossover trial of air purifiers. *Journal of the American College of Cardiology. J Am Coll Cardiol*. 2015 Jun 2;65(21):2279-87. [PMID:26022815]

