

UMD CP School of Public Health Interests and Personal Interests in Geospatial Collaboration

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Personal Geospatial Interests

- Teach graduate level course in spatial epidemiology
 - would like to co-teach and/or have guest lecturers, involve students across UMCP campus and UMB
- Publications in spatial clustering statistics for environmental exposures and health outcomes (e.g. asthma)
 - Would like to collaborate on similar future studies
- Current doctoral students working on spatial clustering of physical activity and cancer risks
 - Would like to collaborate with others
- Most of current work involves spatial assessment of exposure to air pollution and associated risks of chronic disease (e.g. diabetes, cardiovascular)
- Interested in expanding work to interventions and on the fly mapping/web-based tools and development of spatial statistical models for chronic disease (e.g. diabetes) and associated risk factors (e.g. built environment context, pollutants)

UMD CP SPH Main Research Areas of Interest That Could Lend Themselves to Geospatial Collaboration

- Health Disparities
- Environmental Exposures
- Physical Activity
- Applied Community Research and Interventions
- Policy Research

Near Term Interest in Geospatial Collaboration

- Cross-disciplinary student training
- Resources for faculty who know they want to include GIS (mostly- very little interest in remote sensing) on project but do not have the expertise
 - Collaborative policy and intervention work with PG County (Shannon Jette, Knesiology)
 - MD Center for Health Equity (Stephen Thomas)
 - Environmental Justice (Sacoby Wilson, MIEH)
 - Physical activity/built environment projects (Jennifer Roberts, Knesiology)
 - Spatial Epidemiology and Environmental Exposure Assessment (Robin Puett, Chengsheng Jiang)
 - Collaborations on interventions with UMB and Geography – e.g. prescriptions for physical activity environment
 - Spatial Statistics (Shuo Chen, Biostat)

Long Term Interest in Geospatial Collaboration

- Health and Place Spatial Tools NIH-funded conference application
- NIH Center grant – e.g. superfund
- NIH Training grant
- Institute for Health and Place