Spatial Epidemiology
PATH/GEOG 560

How does the environment affect health? What tools and methods can be used to understand these relationships?

Graduate seminar with a hands-on component.

Spring 2016  M. O’Hara Ruiz, instructor

TOPICS

- How to describe and analyze the spatial and temporal pattern of diseases and other health events such as West Nile Virus, obesity and birth outcomes
- Geostatistical techniques, spatial regression and exploratory spatial data analysis
- Measuring spatial patterns to identify hotspots and create lag variables
- Ecological niche models and landscape metrics

In this course, you will learn about new tools and approaches to map, visualize, analyze and explain spatial patterns of disease. The approach includes lectures, readings, computer lab exercises and a term project.

Class meetings:
Mon & Wed 2 – 3:50
338 Davenport Hall

For more information, contact Marilyn O’Hara Ruiz
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