Landscape Analysis and Modeling (BIOL 4383/6383-02)
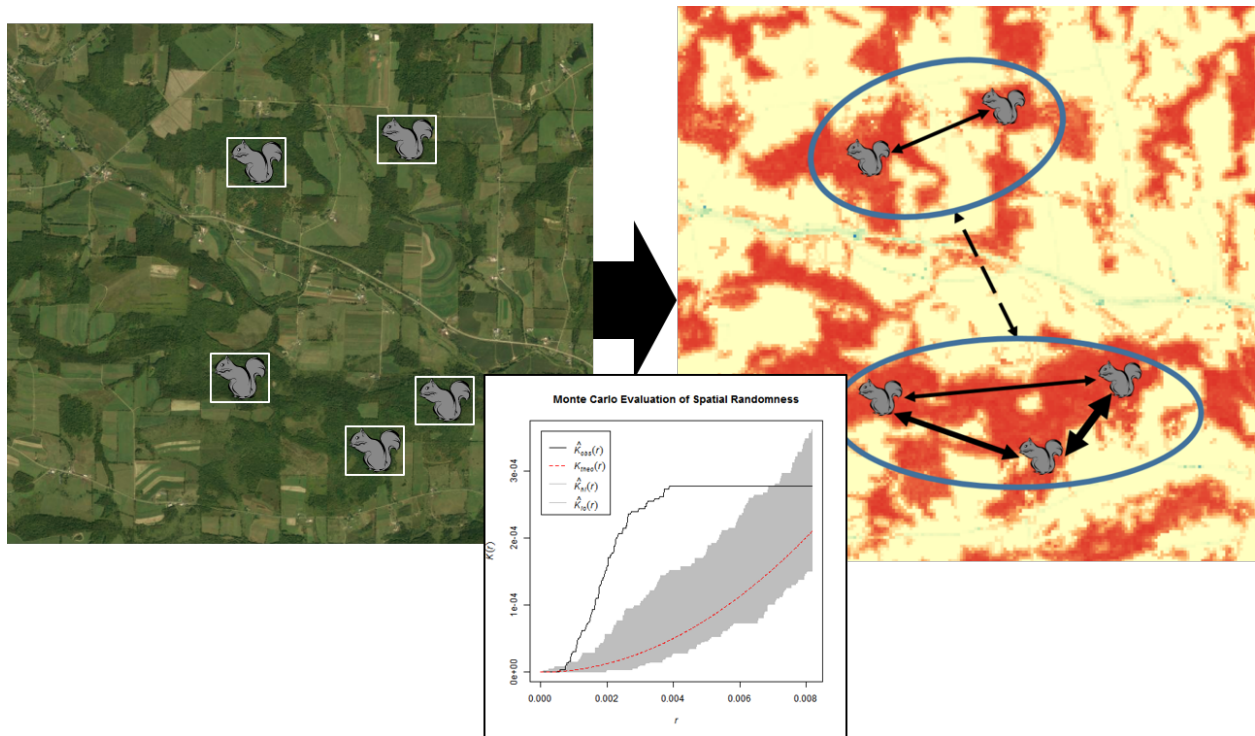
Instructor: Dr. Michael Treglia

Keplinger Hall L2, Tues/Thurs 11:00 am - 12:15 pm* (Spring 2015)

Course Description: Understanding spatial relationships can provide critical insight into patterns and processes observed in ecology and evolutionary biology. This course will focus on quantifying and controlling for spatial relationships in data, using spatial interpolation techniques to estimate environmental variables at unmeasured points, and modeling habitat and connectivity across landscapes. Though examples given in the class will focus on ecology and evolutionary biology, most analytical techniques covered can easily be applied to other fields of study, and students will be encouraged to use their own data (or available datasets from their field of study) for assignments throughout the semester.

* Extra time will be available on Thursdays to complete computer-based labs.