Using Lidar-Based Tree Data and MGWR to Model Housing Prices in Arizona

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Research Project Overview: Modeling housing prices using spatial statistical methods has long been a staple in the literature. The availability of lidar data that accurately maps tree cover presents a unique opportunity to explore how tree cover influences housing prices, especially in xeric regions such as Arizona. I am looking for a student to who is familiar with MGWR and data processing. The student will be responsible for preparing data and running statistical models including OLS and MGWR. The student will also make maps to visualize the spatial nature of the model coefficients.

Any pre-requisites needed? Experience with MGWR, statistics and data processing (such as GIS 470, GIS 471 and GIS 598 Local Statistical Models)

Research available for scholarship ($1000)? Yes

Research available for scholarship (45 hours per credit)? Yes

Research opportunity available to ASU Online Students? Yes