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### **Lab 5 Deliverable 5**

Compare the results obtained from the multivariate OLS and GWR analyses. Why might differences exist between these two analyses?

The OLS (Ordinary Least Squares Regression) and GWR (Geographically Weighted Regression) are both used as analytic tools to look at data, however, the latter is a calculation that is on a much finer scale compared to the former. OLS is a *global* model and only one equation is generated for the entire study area. GWR is a *local* model and several equations are generated and calculated for every single feature point within a data set, this takes into account neighbors of feature points; the GWR looks at geographical differences and spatial variations concerning the relationship between the dependent and independent variables.