

jobs indicated a total of 904 blocks had significant positive spatial auto correlation at the 90 percent confidence level. The analysis of high-skilled jobs for the same year showed just 788 blocks with significant positive spatial autocorrelation at the 90 percent confidence level.

The “hot spot” analysis found no census blocks to have significant negative spatial autocorrelation. Nearly three-

High and low -skilled employment “hot spots” in St. Louis

1) To what extent do low -skilled jobs cluster near high -skilled jobs?

To a large extent, private sector high and low-skilled jobs cluster near one another. Figures 1 and 2 show, with exceptions for shipping and warehousing centers, “hot spots” for high and low-skilled jobs are both concentrated in the St. Louis’s central corridor. Throughout the city, low-skilled jobs concentrate near high-skilled jobs. Correlation coefficients of high and low-skilled jobs are very high: .96 and .98 in 2009 and 2017 respectively. These correlations indicate a very high degree of employment clustering for jobs of all skill levels.

2) Do employment “hot spots” persist over time?

Yes, Figures 1 and 2 show little has changed in the locations of private employment hot spots for high and low-skilled workers in the eight years separating the two study years. Correlation coefficients for high-skilled and low-skilled job locations in 2009 and 2017 are 0.91 and 0.87, respectively. In both 2009 and 2017, employment “hot spots” for college-educated jobs were found only in the central corridor. Unsurprisingly, the high-skilled employment “hot spots” were driven by the downtown area and the city’s two largest hospitals. In both study years, we found high-skilled jobs to be more tightly concentrated than low-skilled jobs. This is illustrated by the Lorenz curves in Figure 3. Jobs for workers holding a high school diploma or less are

led jobs in both study years using the “zone of
intervals, with starting and ending distance bands
ch of the 4 cases, spatial autocorrelation was
ne kilometer. These one kilometer distance bands
again with the zone of indifference weights matrix
sed to create the hot spot maps.