



The above figure shows plots of the nodes\_expanded for Dijkstra and A\* algorithm and Resolution = [0.6, 0.6, 0.6], [0.9, 0.9, 0.9], [1.2, 1.2, 1.2], [1.5, 1.5, 1.5]. The figure suggests nodes\_expanded decreases as the resolution becomes larger. Also, nodes\_expanded for A\* is smaller than nodes\_expanded for Dijkstra.

The right two figures show the path taken for Resolution = [1.2, 1.2, 1.2] for Dijkstra (top) and A\* (bottom) algorithms. The main difference was that the A\* has a larger leap to go over the red box.

