



# **ALGORITHMS FOR PEDESTRIAN PATHS THAT REDUCE BOTH HARASSMENT AND DISTANCE**



**Juan Esteban  
Barrios Tovar**  
Project  
Creator



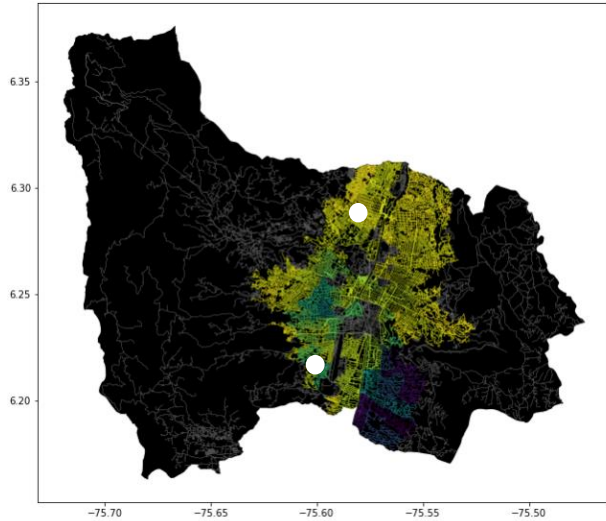
**Andrea Serna**  
Literature  
Review



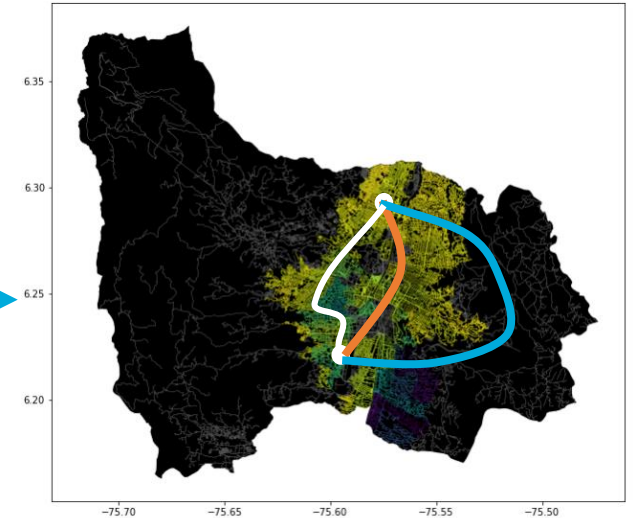
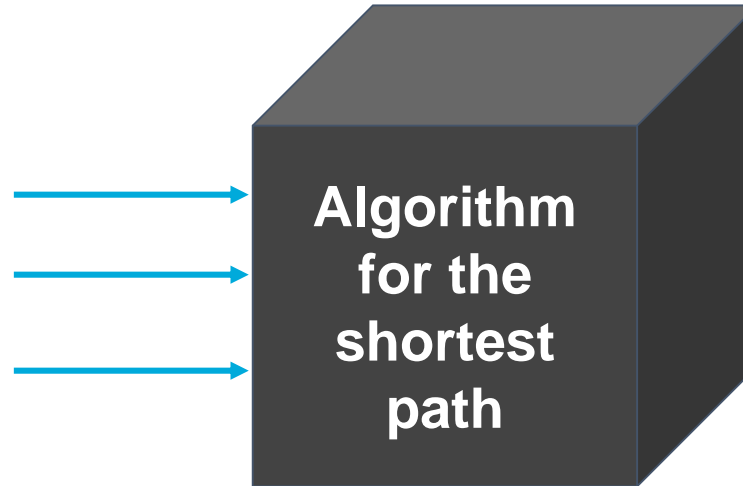
**Mauricio Toro**  
Data  
Preparation



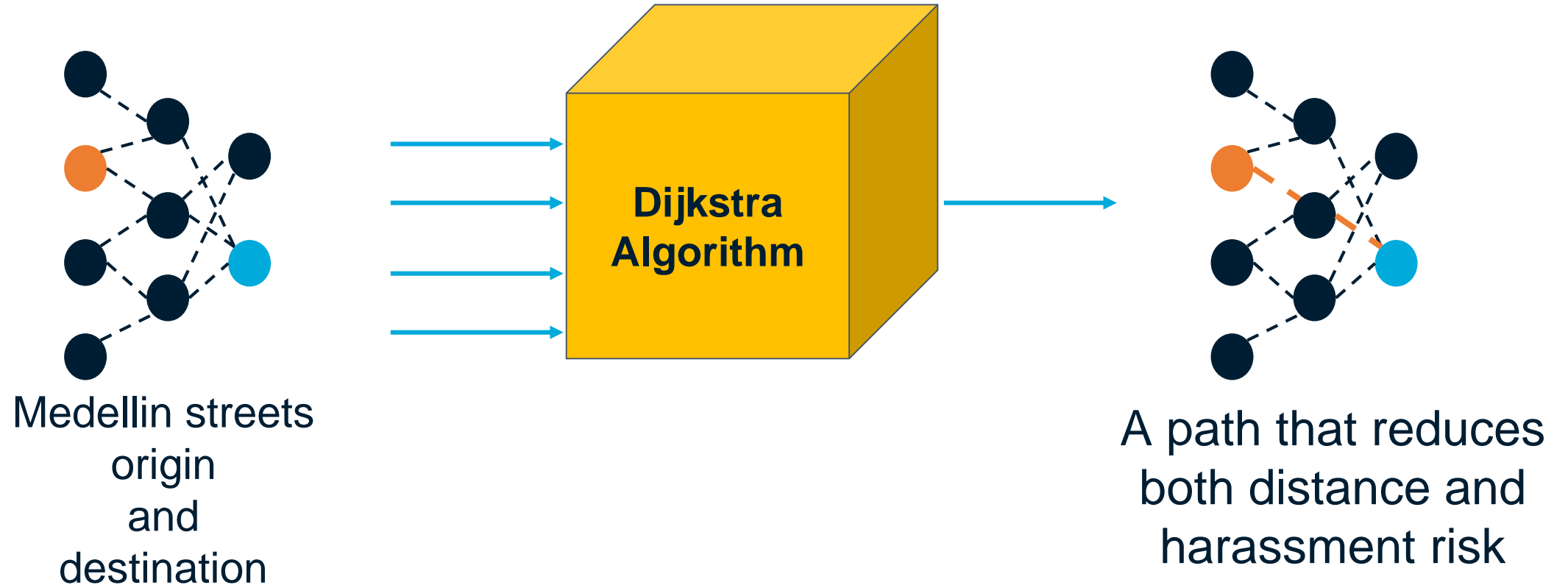
# Problem Statement



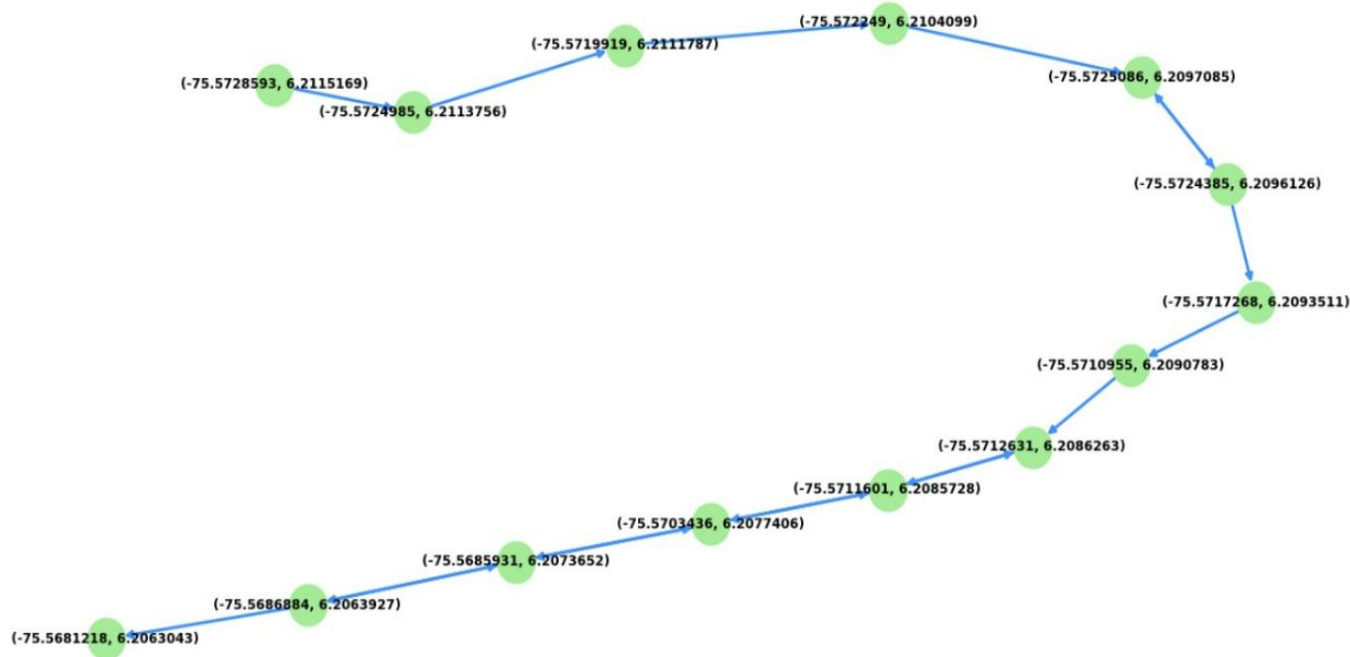
Medellin Streets  
Origin  
And  
Destination



Three paths that reduce both  
the risk of harassment and  
the distance



# Algorithm Explanation



Dijkstra Algorithm: Seeks to obtain the shortest path with the least harassment in Medellin, between the origin and the destination, through the edges with the least weight, which is given by the product of the variables distance and risk of harassment.