# Introduction

## Problem statement

For the Data science capstone project, I have chosen Melbourne, Australia as my city of analysis. My stakeholder is a small family that are moving to the city and have a place of work in North Melbourne. With the place of work a constraint the family wants a report on the surrounding suburbs that will include a categorization of popular venues, medium price of housing and the distance to travel to work. Their venues of interest would be cafes and nice parks.

## Data gathering

In order to assist the family as a data scientist I will need to access various datasets and collate them into a simple report to handover to the family to help them decide the optimum location of residence. After some research I will be able to grab relevant data from the below sources:

Suburb location data:

<https://www.matthewproctor.com/full_australian_postcodes_vic>

Medium price data:

<https://discover.data.vic.gov.au/dataset/victorian-property-sales-report-median-house-by-suburb>

I will be able to gather venue data using the Foursquare API and will conduct clustering analysis to group the suburbs by their most popular venues.

# Methodology

# Results

# Discussion

# Conclusion