# Data Collection Report

Jianing Yang

## Location of Database Table

Database: schools4\_database

Schema & Table: jianing\_yang\_acs\_schema.jianing\_yang\_acs\_table

## Code

Repository: <https://github.com/jedyang97/acs_data_download>

See README.md for instructions to install and run the code. Getting data, transforming data and loading data are all automated by scripts and user can just **run three shell scripts** to complete all of these actions. The code is modularized and generalizable so that it can download data at different geography level and add additional variables (see example in get\_data.sh for how to do this).

## Data

**Where to get data?**

I chose to use <https://api.census.gov/> as the source of data, because this is the official government’s website, which constitutes an authoritative, reliable and up-to-date data source.

I used the API here: <https://api.census.gov/data/2018/acs/acs5/>, by following the documentation here: <https://api.census.gov/data/2018/acs/acs5/examples.html?eml=gd&utm_medium=email&utm_source=govdelivery>.

**What variables to use?**

I selected 12 variables based on 4 categories: race, income, gender and education. Variables in these categories are most pertinent to our high school graduation intervention project because I think there could be a high correlation between this family background information and the success of a student in high school.

|  |  |  |
| --- | --- | --- |
| Race | Total | B02001\_001E |
| White alone | B02001\_002E |
| Black or African American alone | B02001\_003E |
| Asian alone | B02001\_005E |
| Some other race alone | B02001\_007E |
| Income | Median household income in the past 12 months (in 2018 inflation-adjusted dollars) | B25119\_001E |
| Gender | Male | B01001\_002E |
| Female | B01001\_026E |
| Education | Total: Male | B15001\_002E |
| Male, 18 to 24 years, Bachelor's degree | B15001\_009E |
| Total: Female | B15001\_043E |
| Female, 18 to 24 years, Bachelor's degree | B15001\_050E |