

# 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](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](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