

Final Report Summary

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1 Introduction

In this report, I focused my research on the labor force market in Puerto Rico and the U.S. mainland. From the data, I found that the labor force participation rate in Puerto Rico(0.58) is far lower than it in the U.S. mainland(0.75).

To find out the reason that caused such a huge difference, I took age and disability as two main variables and tried to explore the relationship between these variables and the labor force statue.

The data I am using in this research is ACS¹ 2016 1-year data.

2 Exploration

First of all, I computed the labor force participation rate in Puerto Rico and the U.S. mainland (See Table 1)

As we can see from it, there are 42 percent of people in Puerto Rico not in labor force, compared to the propotion in U.S. mainland (25 percent),

A next step demands:

- Knowing the *central* and *dispersion* values.
- Visualizing the variables of interest.

Except for the column *state*, we can compute the centrality and spread measures for the other variables in the data. I will do that in Table ?? in the next page.

As we have a categorical variable, we could create a frequency table:

¹American Community Surveys, from IPUMS USA(<https://usa.ipums.org/usa/index.shtml>).

Figure 1: Location of values

2.1 Modeling

Here, I propose that the amount of money spent for child per state in the US has an effect on the mean average pupils in a state get in SAT:

Here, I modify the previous model; while I insist that the amount of money spent for child per state in the US has an effect on the mean average pupils in a state get in SAT; I will control the effect the demand per state (as demand were equal accross states). Then,

Model 2:

I have the results, but have not display them, let's do it in the coming subsection

2.2 Modeling nicely

What about this:

3 Explaining Citations

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