ProblemSet2 new

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Abstract

Education is a contributor to many beneficial socio-economic outcomes. We intend to exam the education profile in the selected neighbourhoods of Toronto that have polarized household income from the data set package Wellbeing Toronto - Demographics: NHS Indicators. We first observe that the income gap between the neighbourhood with the highest household income and the lowest is enormous. The median household income of Bridle Path-Sunnybrook-York Mills is almost nine times more than Regent Park before tax. Bridle Path-Sunnybrook-York Mills also has a much higher attainment rate (45%) of higher education above a bachelor's degree than Regent Park (23%) and the City of Toronto (27%). We intend to use the comparison to bring awareness of inequality in income and education existing in the City of Toronto.

Introduction

Education is a contributor to many beneficial socio-economic outcomes. In the previous study where we examined the educational profile of Toronto's neighbourhoods, we found that the neighbourhood with the highest median household income has a much higher attainment rate (45%) of higher education above a bachelor's degree than the compared with the lowest (23%) and the City of Toronto (27%). In this study, we extend the examination of educational profile to the residents' academic majors in the following categories— "visual and performing arts and communications technologies", "humanities", "social and behavioural sciences and law", "business_management_and_public_administration", "physical and life sciences and technologies", "mathematics computer and information sciences", "architecture engineering and related technologies", "agriculture natural resources and conservation", "personal protective and transportation services" and "no postsecondary certificate diploma or degree". The question we want to answer is [the question]. [Broader context: education as social mobility]

Dataset description

Characteristics of the dataset.

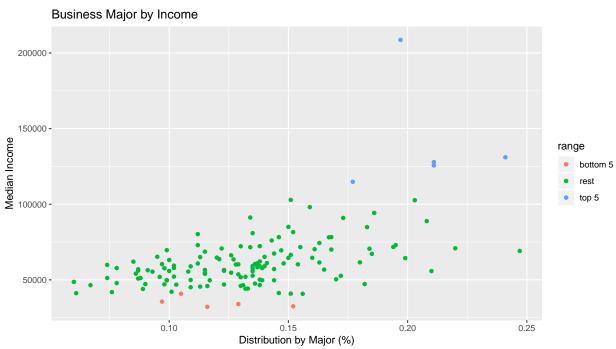
Limitation of the dataset and approach

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Ethical considerations

Income and Education by Major 2011





```
##
## Call:
## lm(formula = business ~ median_income, data = education_percentage_only)
##
## Residuals:
##
        Min
                   1Q
                         Median
                                       3Q
                                                Max
## -0.073980 -0.021830 -0.001939 0.016623 0.107232
##
## Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                7.480e-02 8.125e-03
                                       9.206 4.64e-16 ***
## median_income 9.401e-07 1.227e-07
                                       7.662 2.84e-12 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.03102 on 139 degrees of freedom
## Multiple R-squared: 0.2969, Adjusted R-squared: 0.2919
## F-statistic: 58.71 on 1 and 139 DF, p-value: 2.835e-12
```

Highest Income Neighbourhood by Major

