

What can you expect from the post-secondary institution?*

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03 April 2022

Abstract

Four sentences

1 Introduction

2 Data

2.1 Key features

The raw data includes 125 variables that were derived from the questionnaire. As mentioned above, some key features include classification variables including age, sex, marital status, income, and core contents such as financial giving, the total amount of donations, etc. The dataset is processed and analyzed using ‘R’ (R Core Team 2021) mainly with the ‘tidyverse’ (Wickham et al. 2019) and ‘dplyr’ (Wickham et al. 2021) packages. The package ‘janitor’ (Firke 2021) is used to clean data, and the graphs and the tables are created in ‘ggplot2’ (Wickham 2016) and ‘kableExtra’ (Zhu 2021), respectively. The package ‘stringr’ (Wickham 2019) is used to manipulate the character string. The packages ‘bookdown’ (Xie 2016) and ‘knitr’ (Xie 2014) are used in generating the R Markdown report. Table 1 created using ‘kableExtra’ (Zhu 2021) shows a subset of key features that will be discussed in this paper.

2.1.1 Age at graduation

Figure 1 shows the distribution of the age-group at the time of graduation. Note that the survey was conducted in 2018 on the Class of 2015, so by the time the survey was completed, we can expect that the age distribution of the survey would be slightly different. Also, we can see that more female graduated from

*Code and data are available at: https://github.com/parkyunk/postsecondary_institution.

Table 1: A subset of key features

Age at graduation	Gender	Level of study	Program	Length of time
Less than 25	Female	Bachelor’s	Business, management and public administration	Less than 6 m
Less than 25	Female	College	Business, management and public administration	Less than 6 m
Less than 25	Female	Bachelor’s	Social and behavioural sciences and law	Less than 6 m
25 to 29	Male	Master’s / Doctorate	Social and behavioural sciences and law	6 months to le
Less than 25	Male	College	Architecture, engineering, and related technologies	Less than 6 m
25 to 29	Male	Master’s / Doctorate	Business, management and public administration	Less than 6 m
Less than 25	Female	College	Architecture, engineering, and related technologies	Already worki
30 to 39	Female	College	Business, management and public administration	NA
Less than 25	Female	Bachelor’s	Other	Already worki
Less than 25	Female	Bachelor’s	Social and behavioural sciences and law	NA

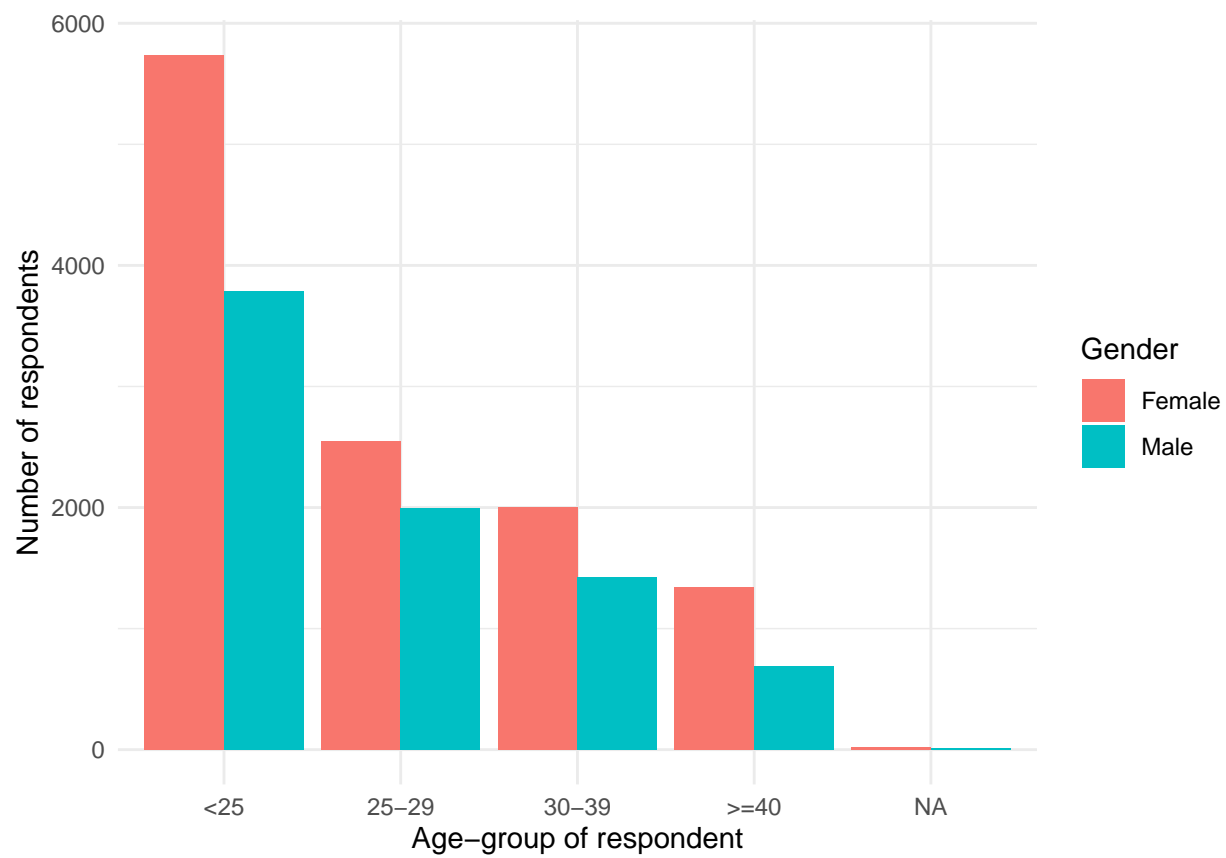


Figure 1: Distribution of age groups (at the time graduation) and gender in the 2018 NGS survey

post-secondary institution. Since it is only conducted to the ones who graduated, it does not tell that female tends to go to post-secondary institution more than male. The drop-out rate

3 Model

y = time_until_first_job

x_1 = lev_of_study (Bacher's / Master's / ...) x_2 = program (math / design / ...) x_3 = participated_co_op x_4 = grade (A+, ...)

Results

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