

# Analysis of NRMA

Roshan Lodha

2023-01-23

## Introduction

Talk about the manuscript here blah blah blah.

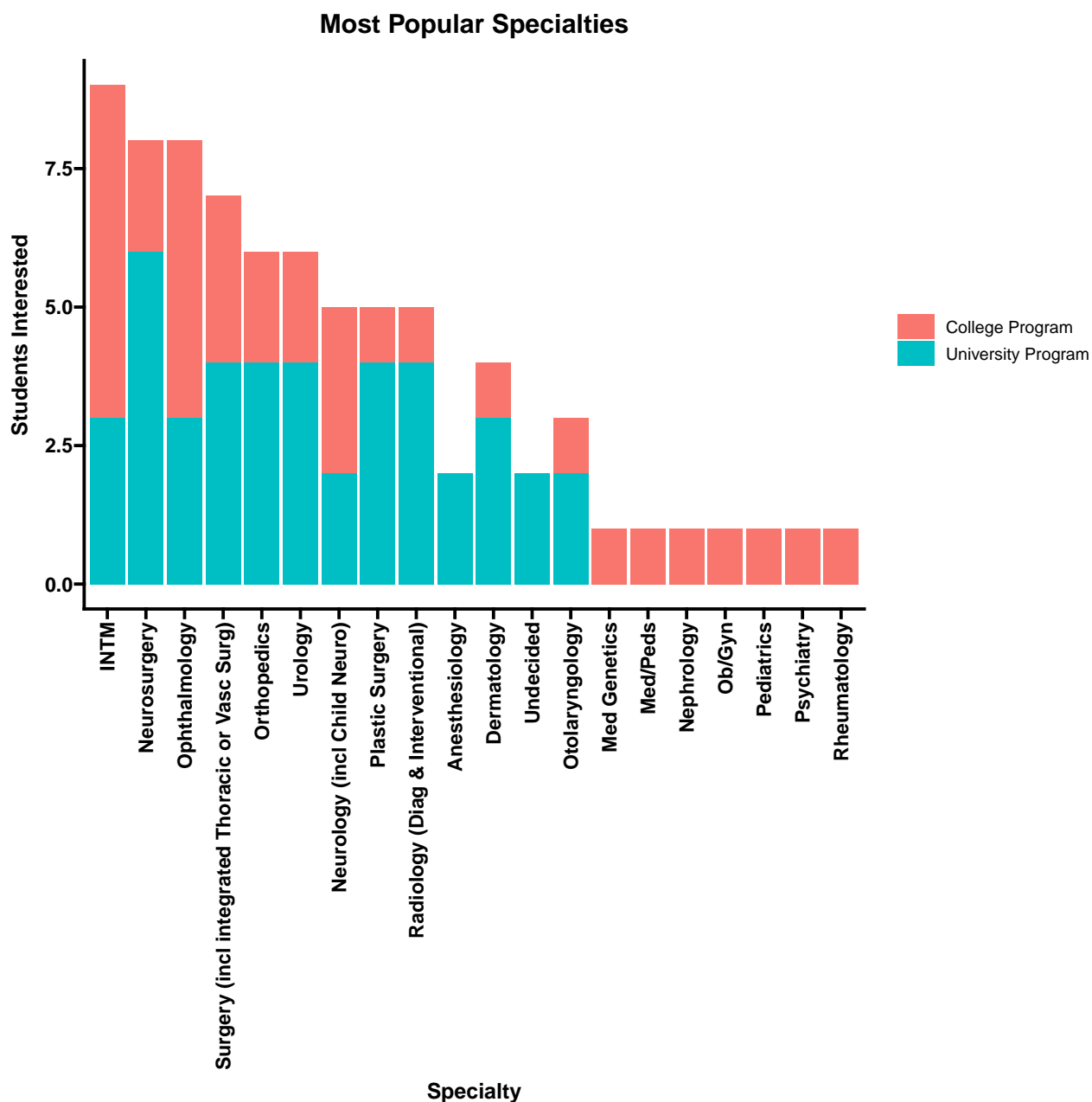
```
pkgs <- c("tidyverse", "ggprism", "MASS", "reshape2", "reshape")
invisible(lapply(pkgs, function(x) suppressMessages(library(x,
  character.only = T))))

responses <- read_csv("./responses_raw.csv")
colnames(responses) <- c("program", "specialty_of_interest",
  "option_one", "option_two", "option_three", "option_four")
responses$program <- as.factor(responses$program)
responses$specialty_of_interest <- as.factor(responses$specialty_of_interest)
responses
```

## Response Analysis

### Specialty of Interest Analysis

```
responses %>%
  group_by(specialty_of_interest, program) %>%
  summarise(count = n()) %>%
  ggplot(aes(x = reorder(specialty_of_interest, (-count)),
    y = count, fill = program)) + geom_bar(position = "stack",
  stat = "identity") + theme_prism() + labs(y = "Students Interested",
  x = "Specialty", title = "Most Popular Specialties") + theme(axis.text.x = element_text(angle = 90,
  vjust = 0.5, hjust = 1))
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## Beans Assigned to Each Rotation

```
responses %>%
  dplyr::select(-c("program")) %>%
  group_by(specialty_of_interest) %>%
  summarise(option_one = sum(option_one), option_two = sum(option_two),
            option_three = sum(option_three), option_four = sum(option_four),
            .groups = "drop") %>%
  as.data.frame() %>%
```

```

melt(id = c("specialty_of_interest")) %>%
  ggplot(aes(x = reorder(specialty_of_interest, (-value)),
    y = value, fill = variable)) + geom_bar(position = "stack",
  stat = "identity") + theme_prism() + labs(y = "Beans Assigned",
  x = "Specialty", title = "Beans Assigned to Rotation by Specialties") +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5,
    hjust = 1))

```

