



Gabriela Caballero

Kunyang Que

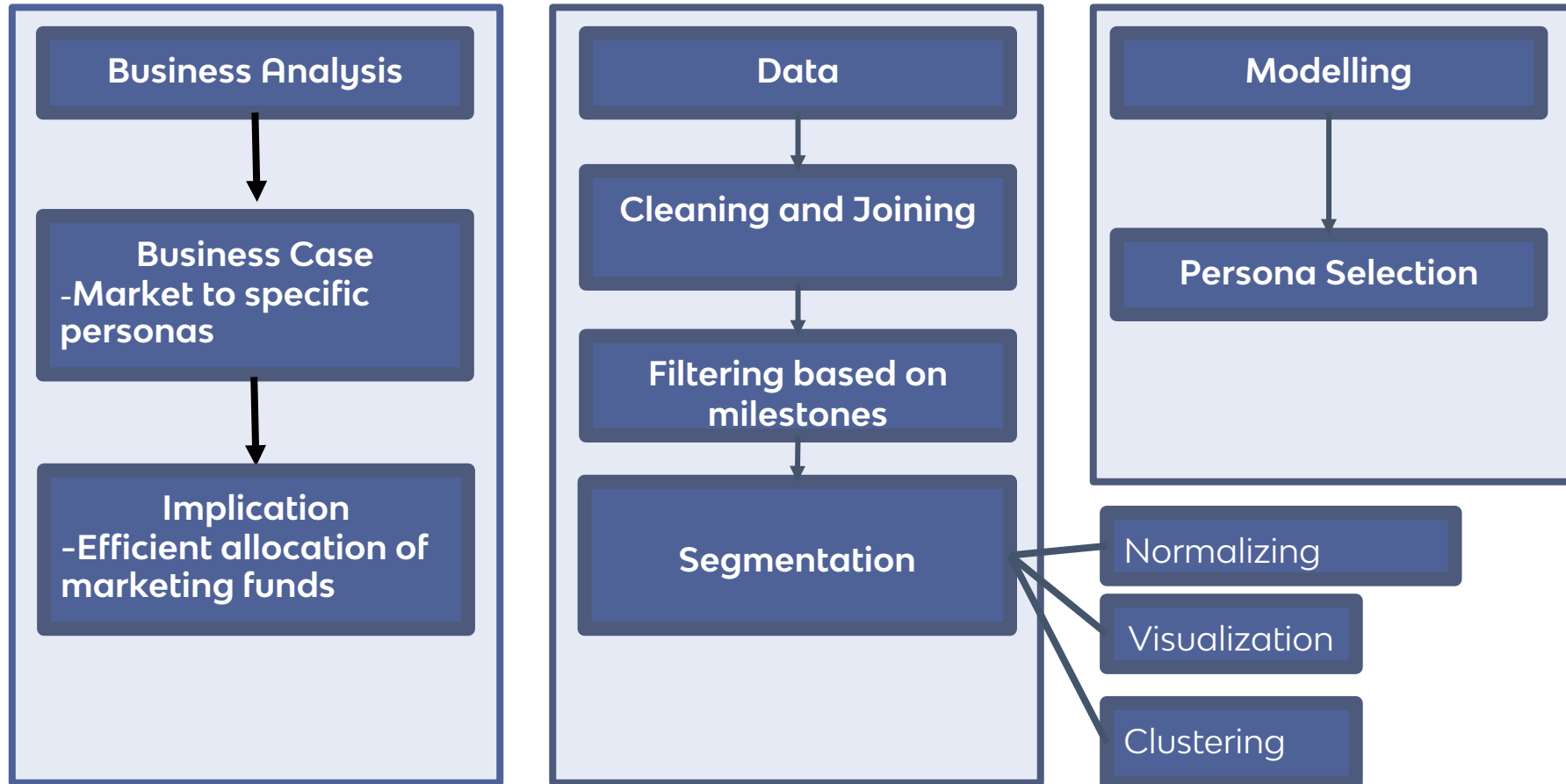
Ullas Srivastava

Yangxin Liu

# Business Objectives

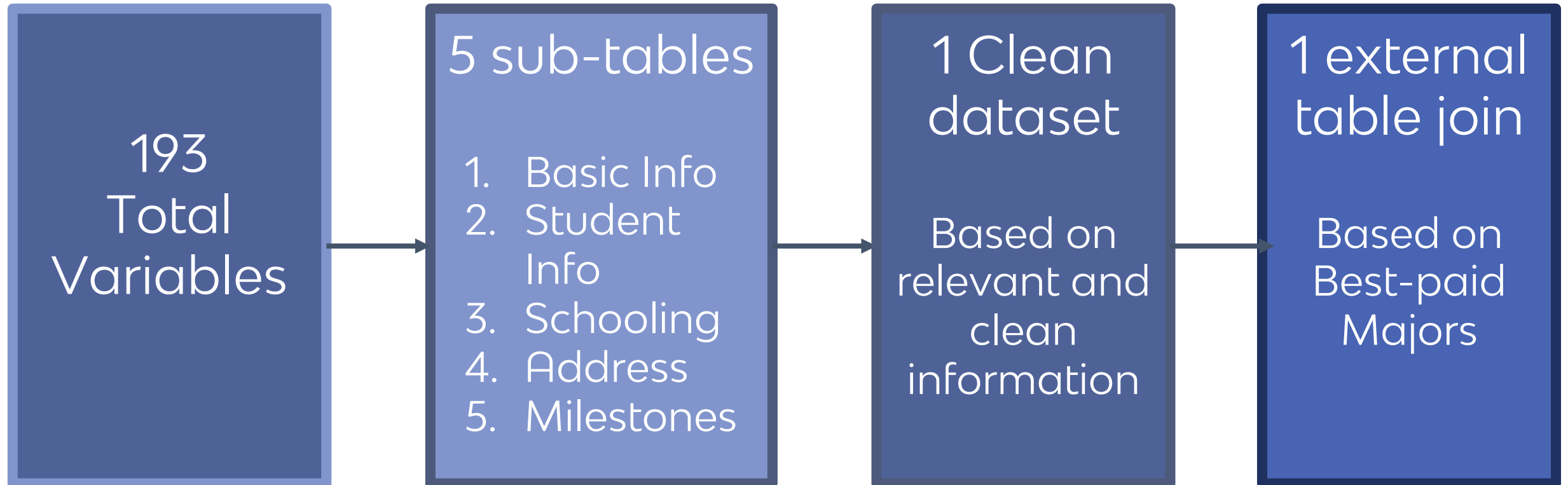


# The Process



# Data Cleaning

- Divided the big dataset in batches after cleaning out the missing data and outliers
- Did the analysis on each batch to find the most relevant fields and merged the batches to form a cleaner and larger dataset





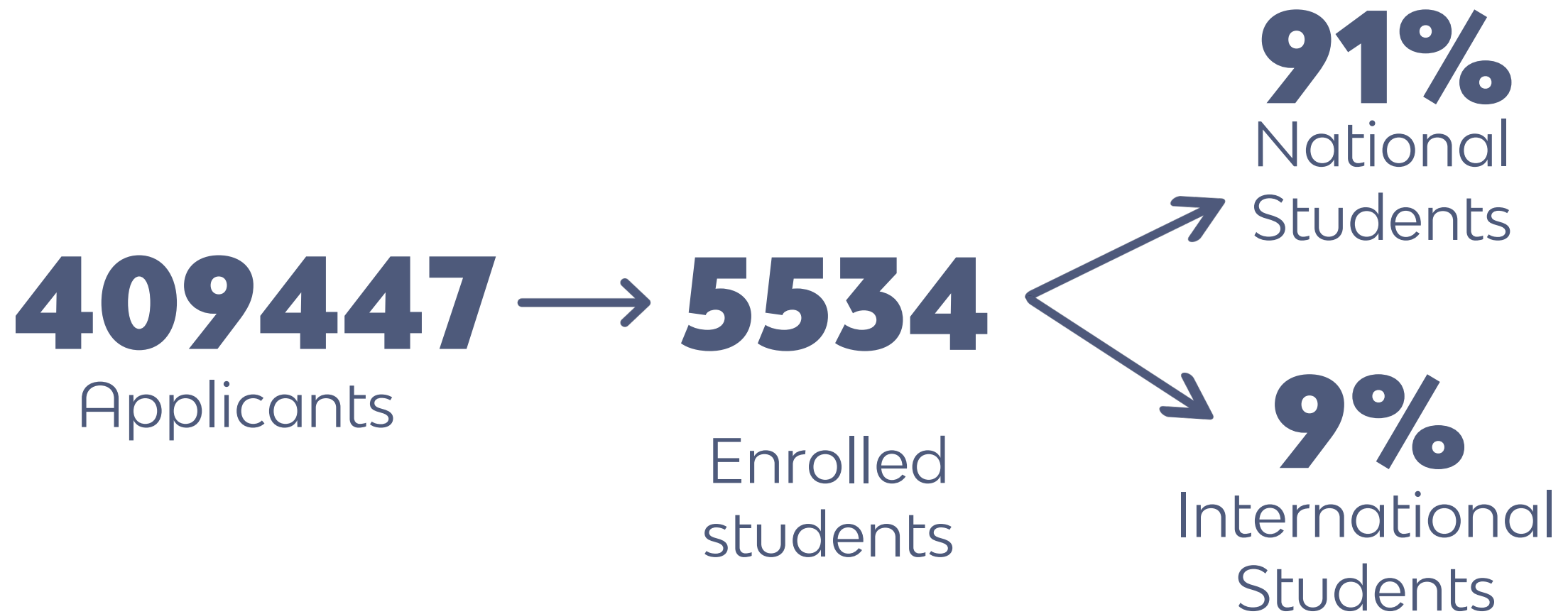
# Applicants Distribution Overview



Map drawn using OpenStreetMap library

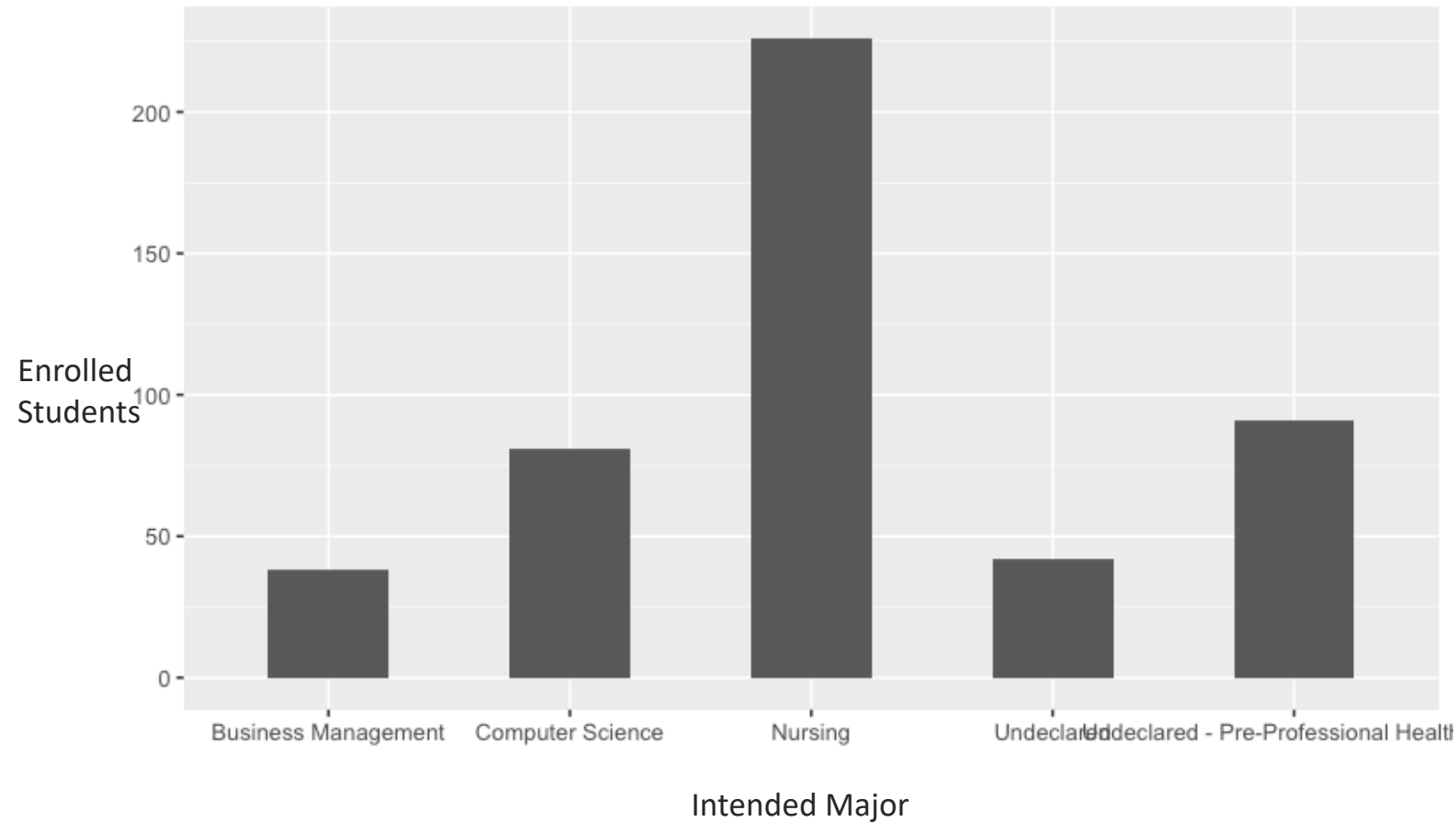


# International vs. National Students



# National Students

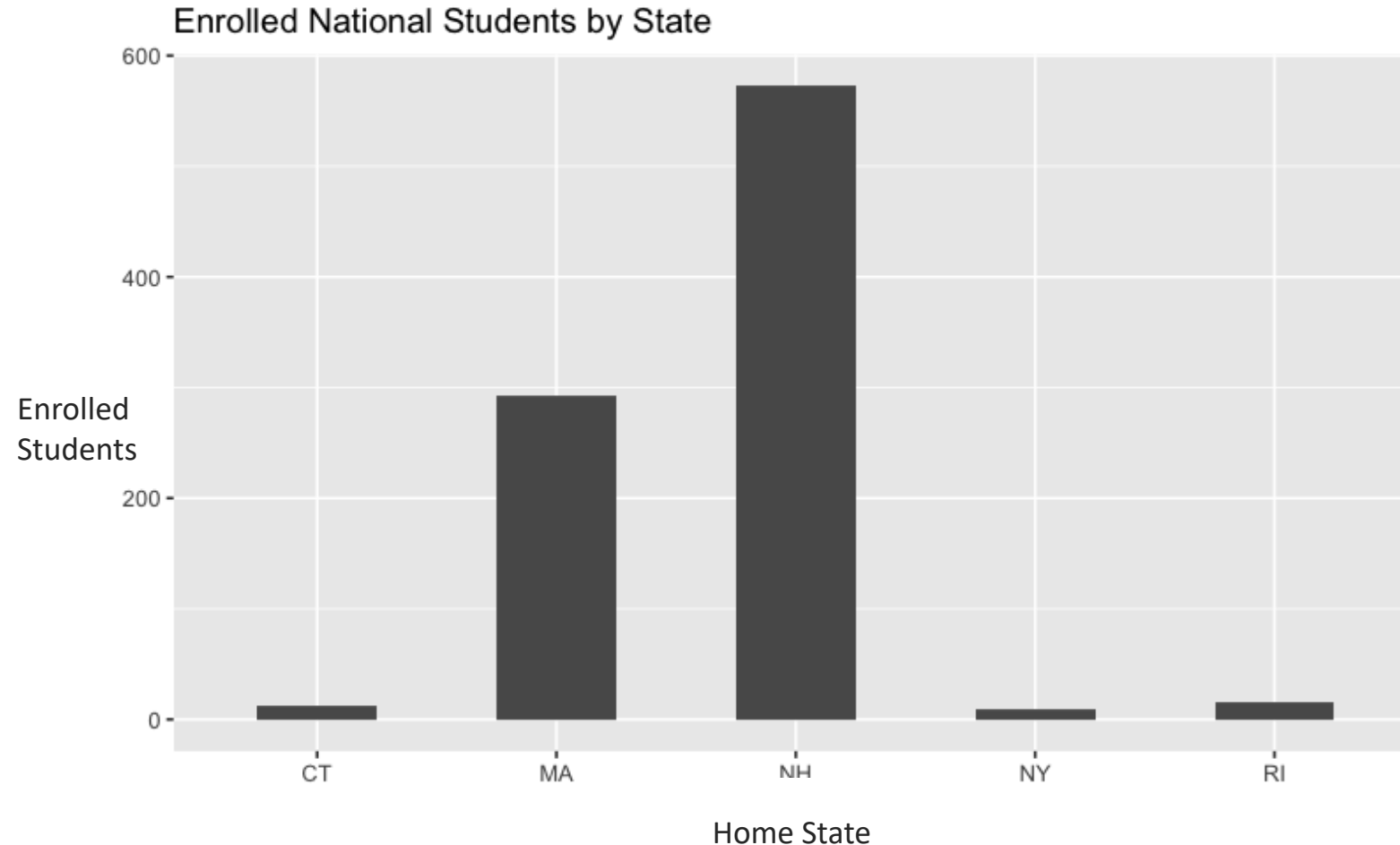
Enrolled National Students by Major



**Nursing**

Most Popular Major  
among National Students

# National Students

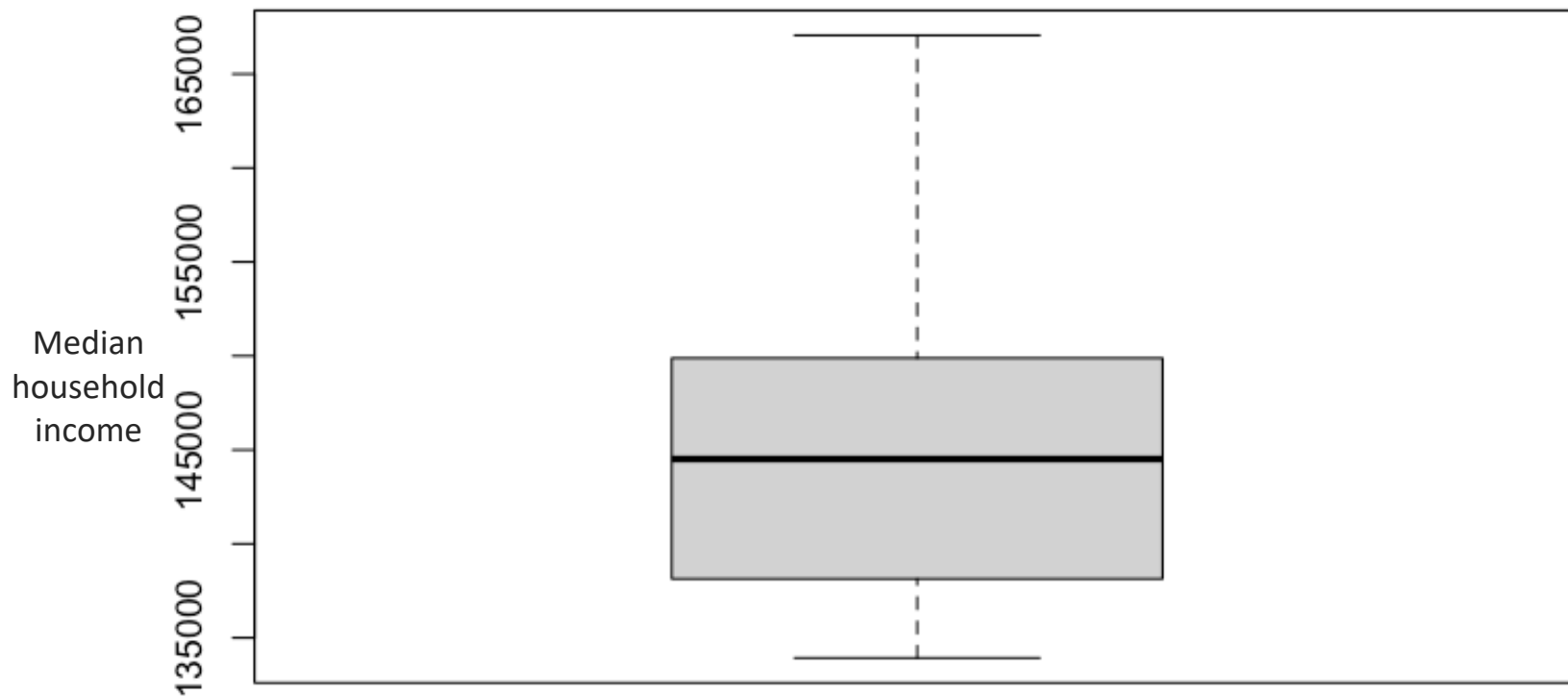


**New  
Hampshire**

Most national enrolled students are in-state student



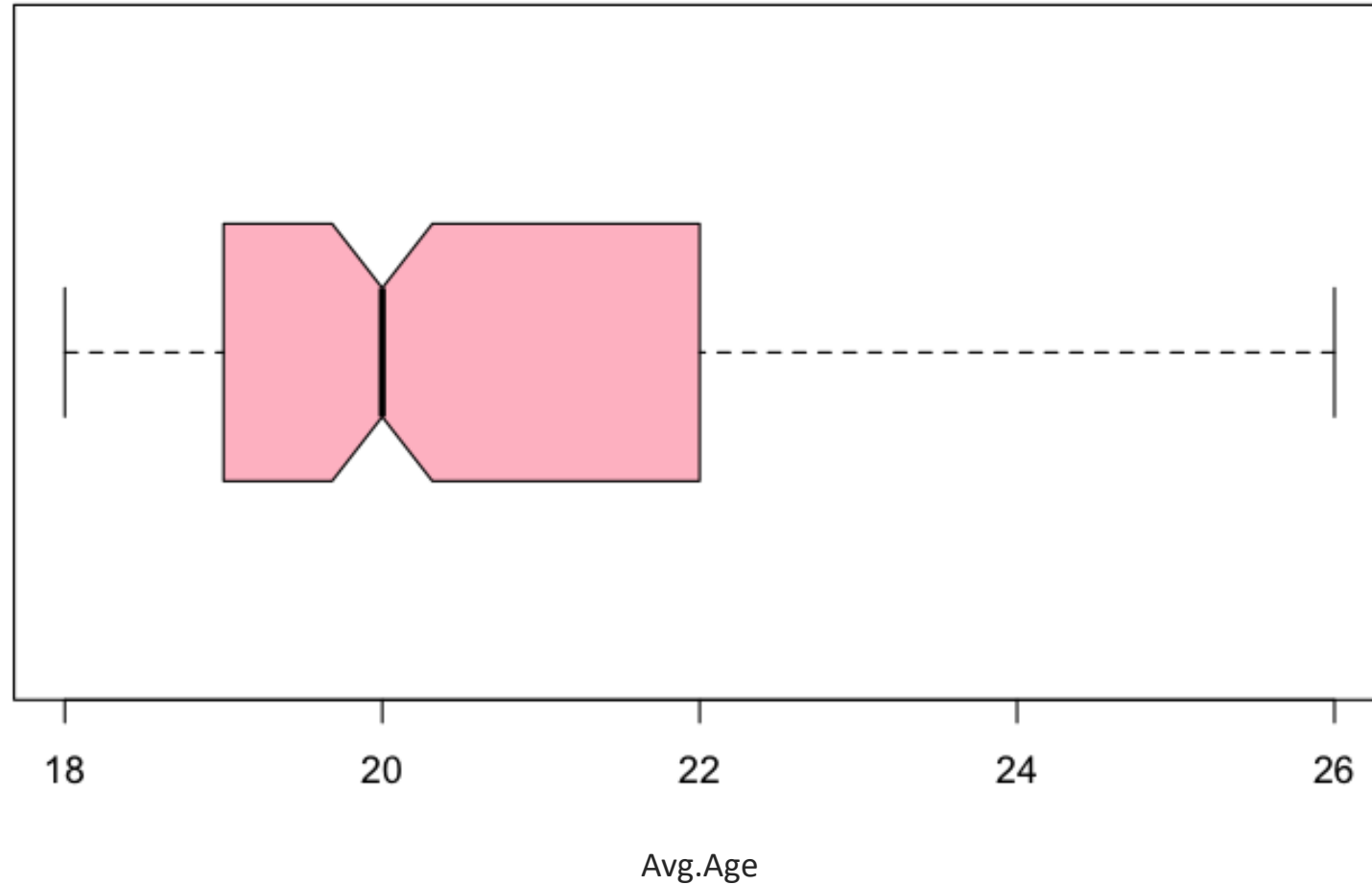
# National Students



**\$ \$145,973**

Avg. median household income removing those that were more than 1sd from the mean

# National Students

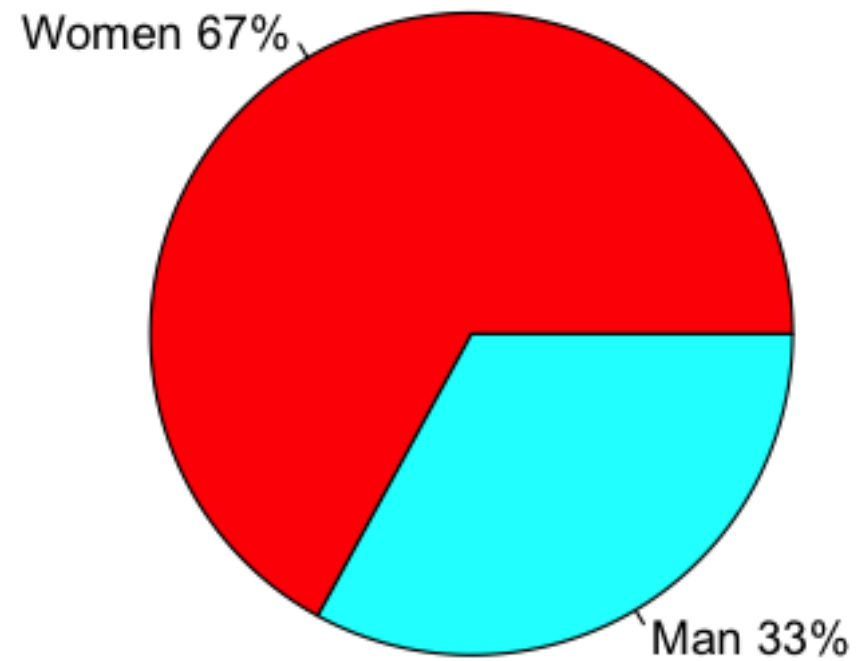


**20**

Avg. age removing outliers

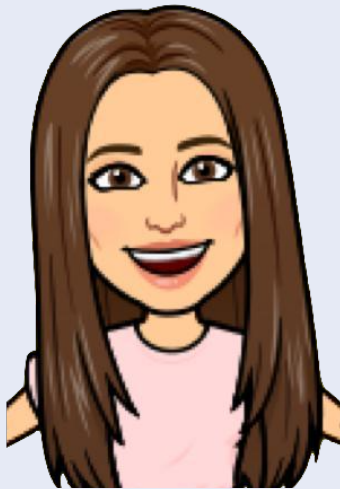
# National Students

## Female vs. Male National Students



# Persona 1

## Rachel



National Student

Wants to pursue a degree in Nursing

From New Hampshire

Median income: \$145,973

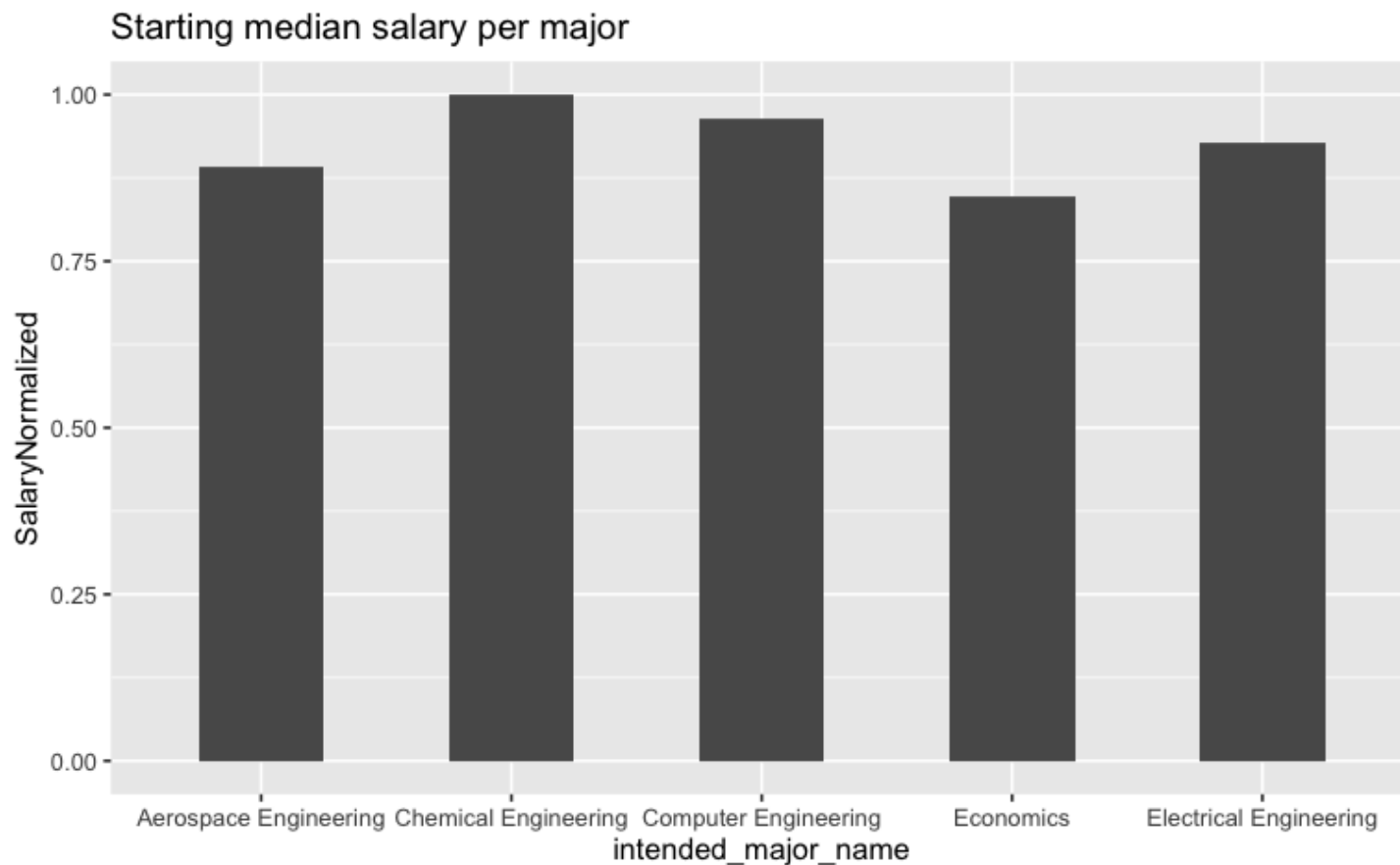
20 years-old

Female

Marketing strategy: No need to invest in advertisement for her since she represents most of our applicants that end up being enrolled.



# Best-Paid Majors-external data



**Chemical Engineering**

Major with the highest  
Median Mid-Career  
Salary

# Best-Paid Majors and National Students



**\$102,920**

Mean median mid-career  
Salary

**\$52,000**

Median mid-career salary  
for education majors



**Education**

Least Popular Major  
among National Students

# Persona 2

## Monica



National Student

From New  
Hampshire

20 years-old

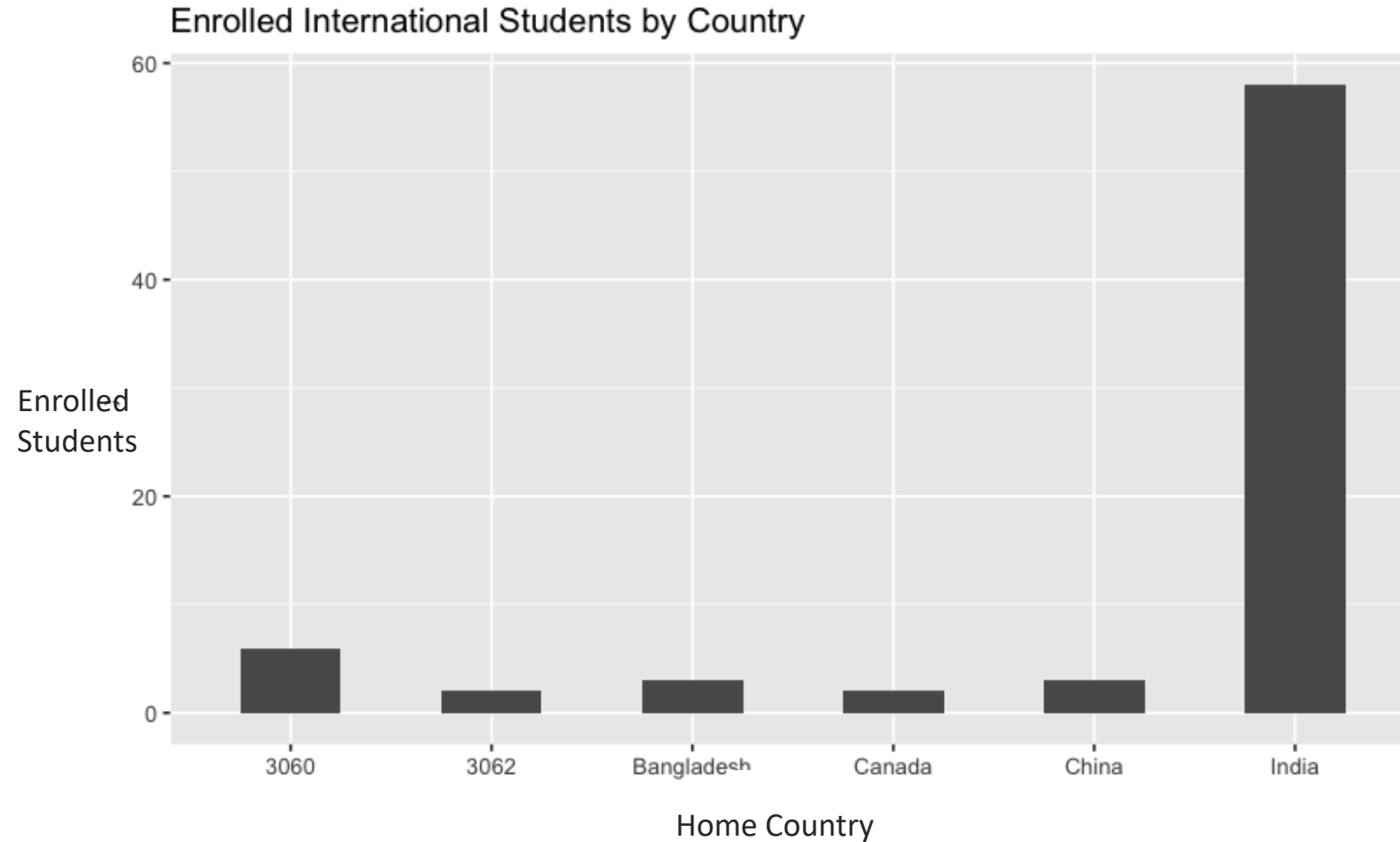
Wants to pursue a  
degree in  
Education

Median income:  
\$145,973

Female

Marketing strategy: The median salary for her intended major is below the mean median salary for all majors and below her current income. We should approach her with scholarships offerings.

# International Students



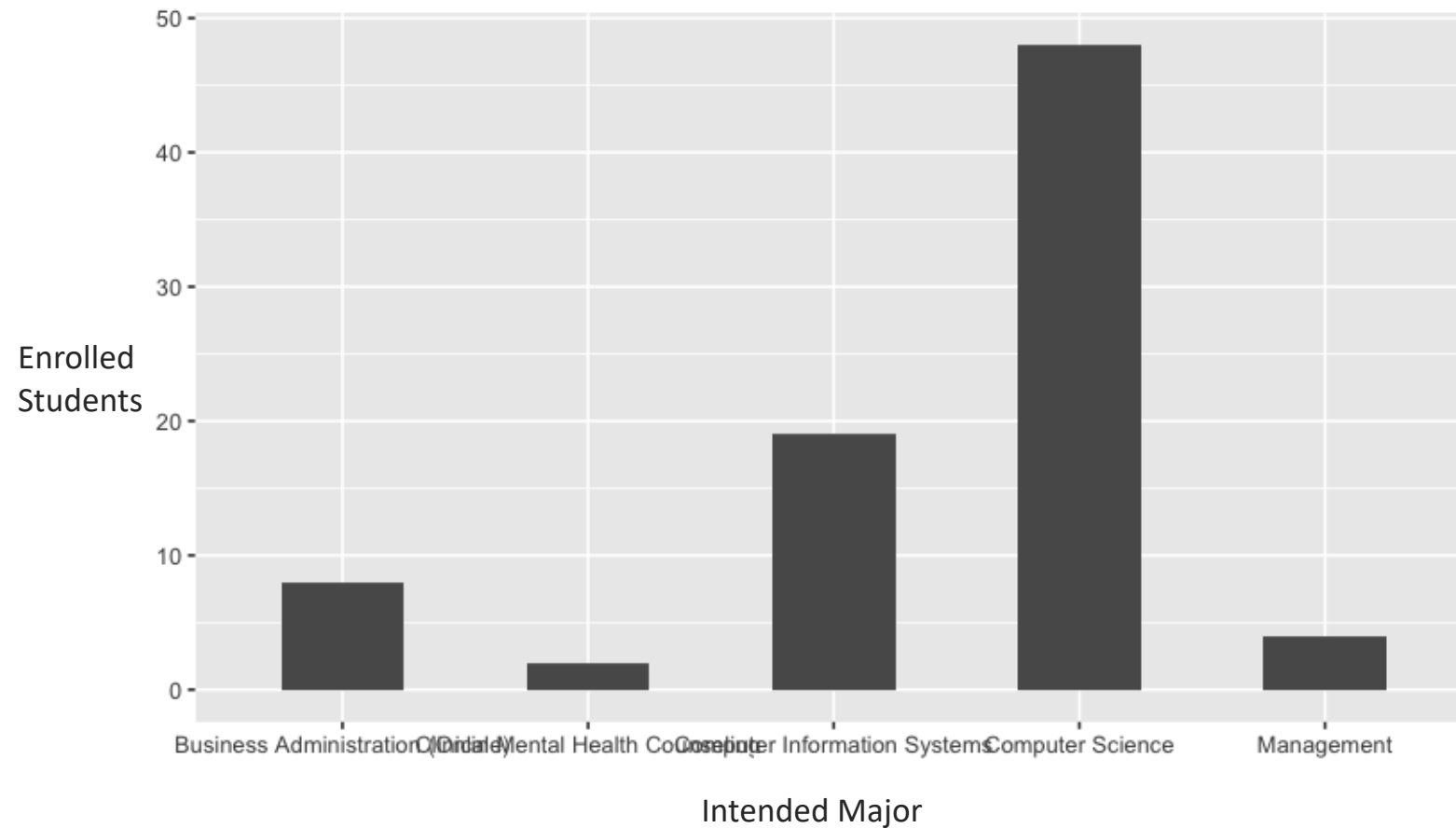
**India**

Most international students are from India



# International Students

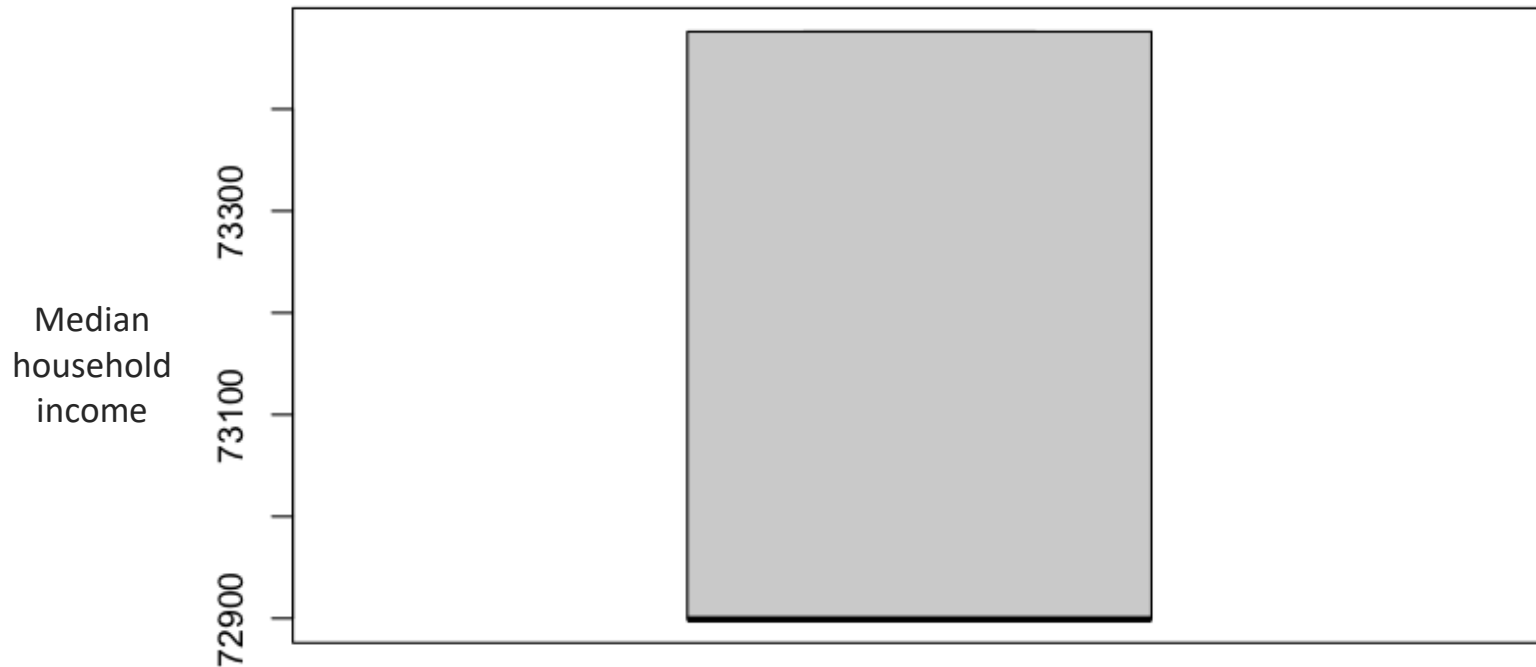
Enrolled International Students by Major



## Computer Science

Most Popular Major  
among International  
Students

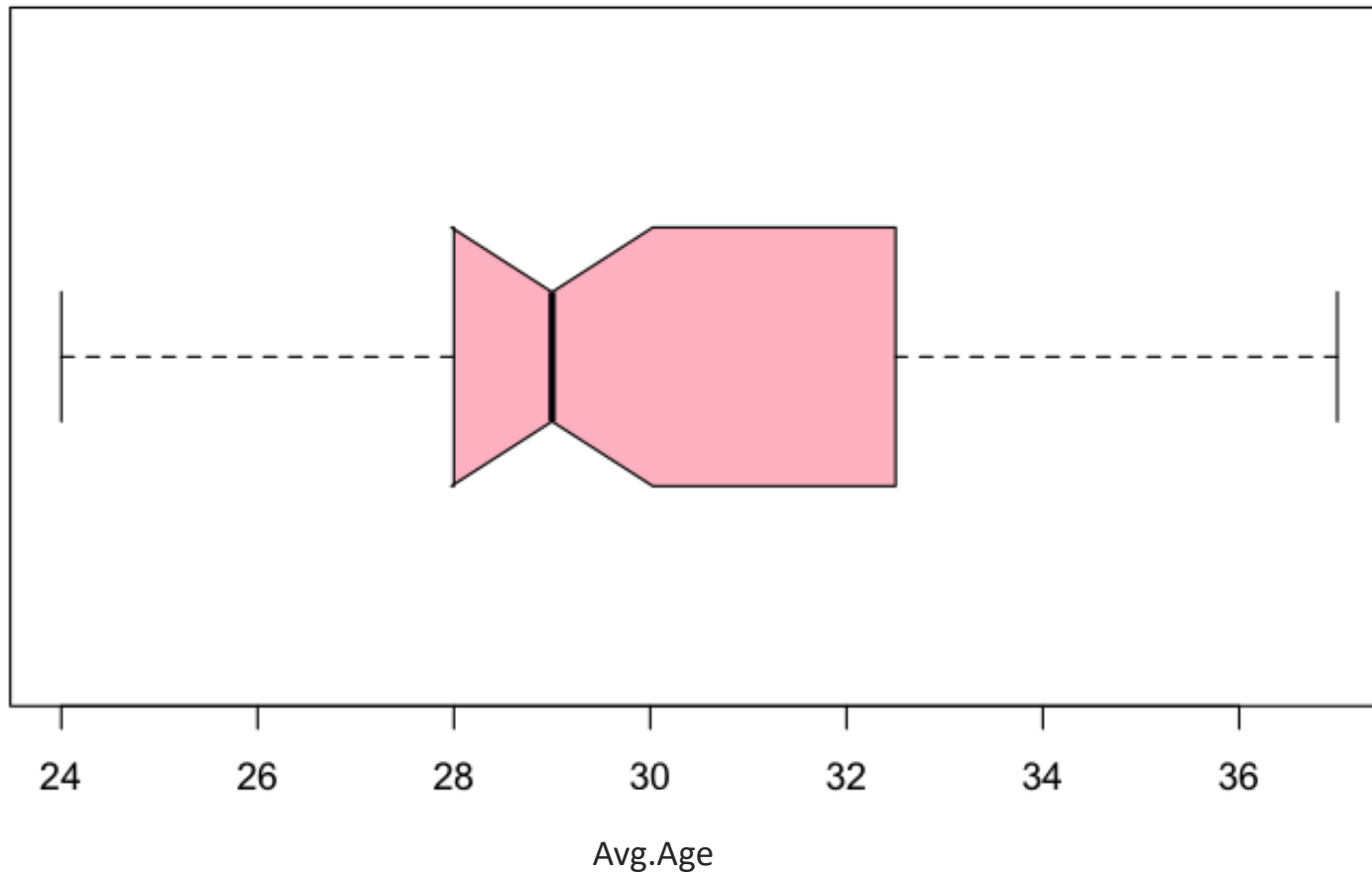
# International Students



\$ **\$74,952**

Avg. median household income removing those that were more than 1sd from the mean

# International Students

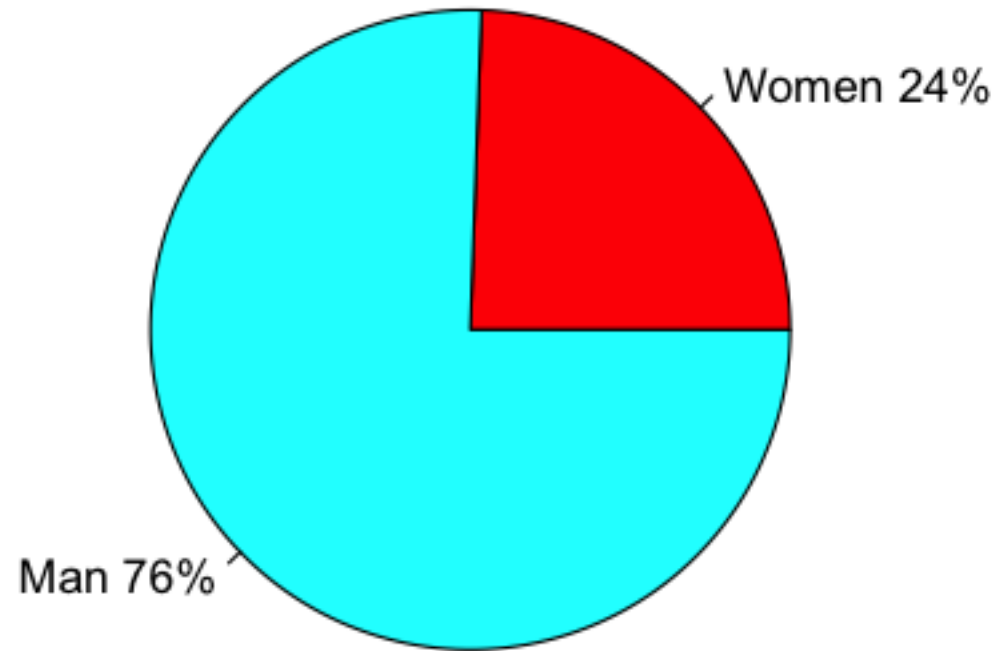


**30**

Avg. age removing outliers

# International Students

## Female vs. Male International Students





# Persona 3

## Ramesh



International Student

Wants to pursue a degree in CS

From India

Median income: \$74,952

30 years-old

Male

Marketing strategy: Approach him offering visa sponsorship and scholarship offerings. A better marketing strategy needs to be directed at him to increase the % of international students.

# Most Popular Majors



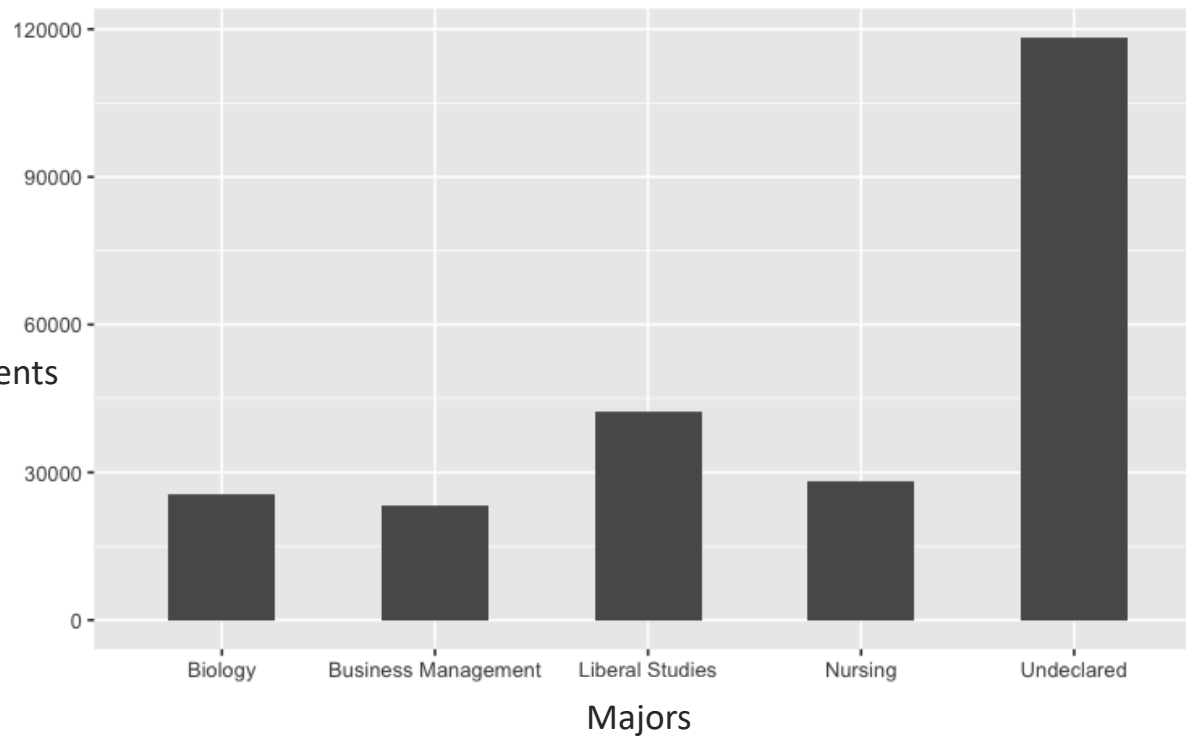
**409447**

Applicants

**+15%**

Wants to pursue a  
degree in Liberal  
Studies

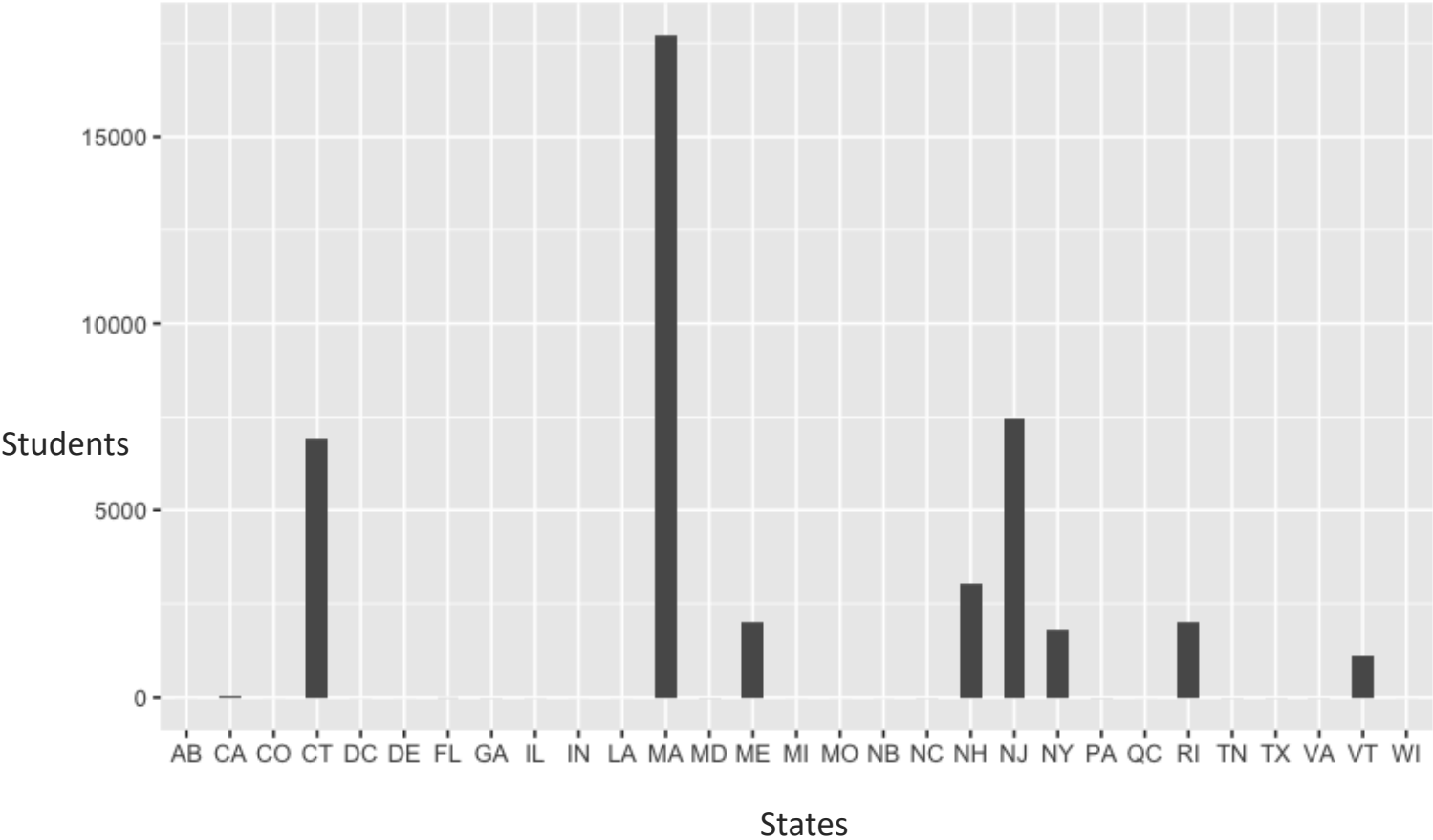
Applicant Students by Major



# Liberal Studies Applicants



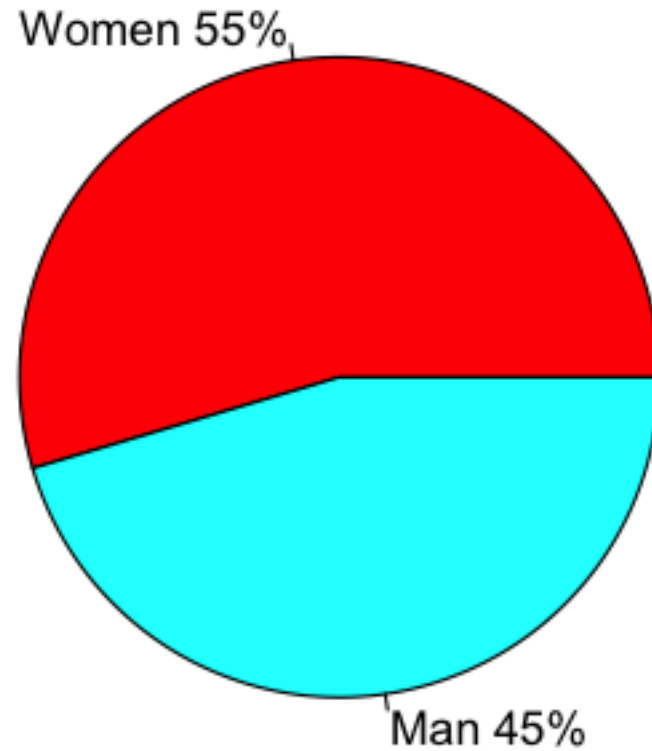
Applicants to Liberal Studies per State



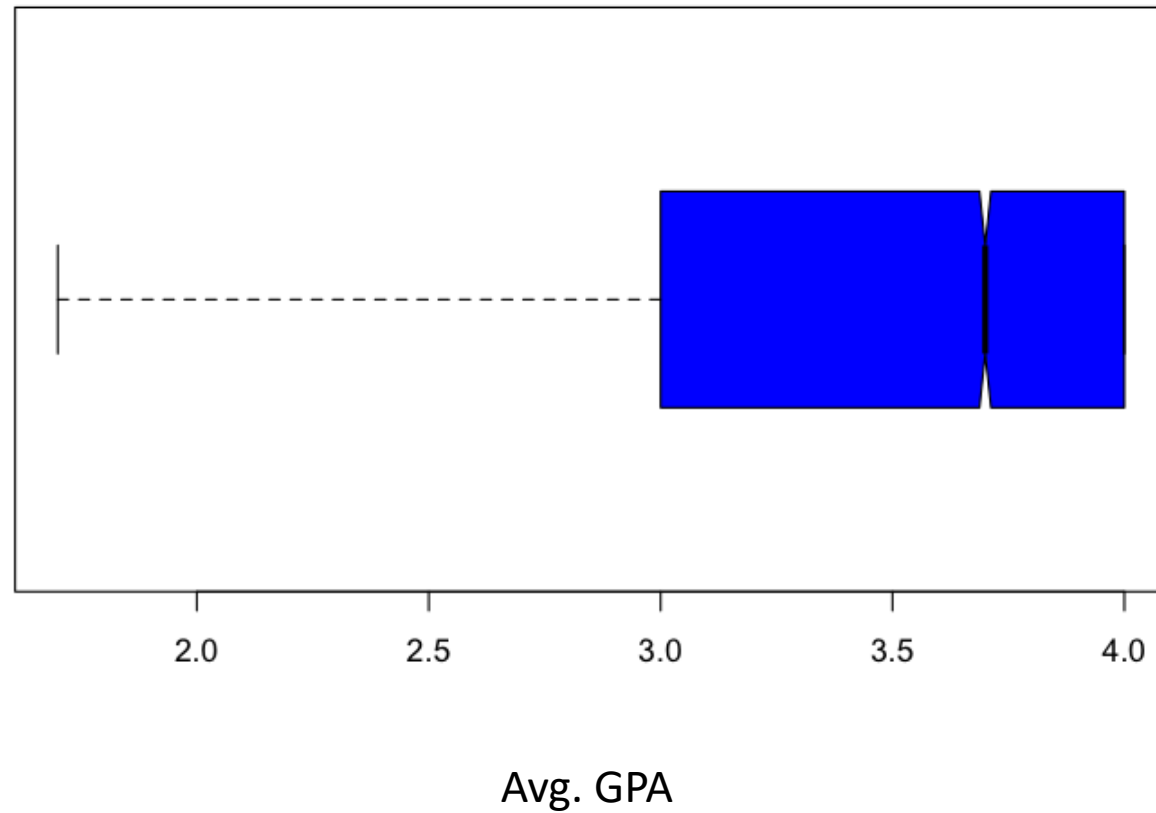
 **Massachusetts**  
Most of Liberal Studies applicants are from Massachusetts

# Liberal Studies Applicants

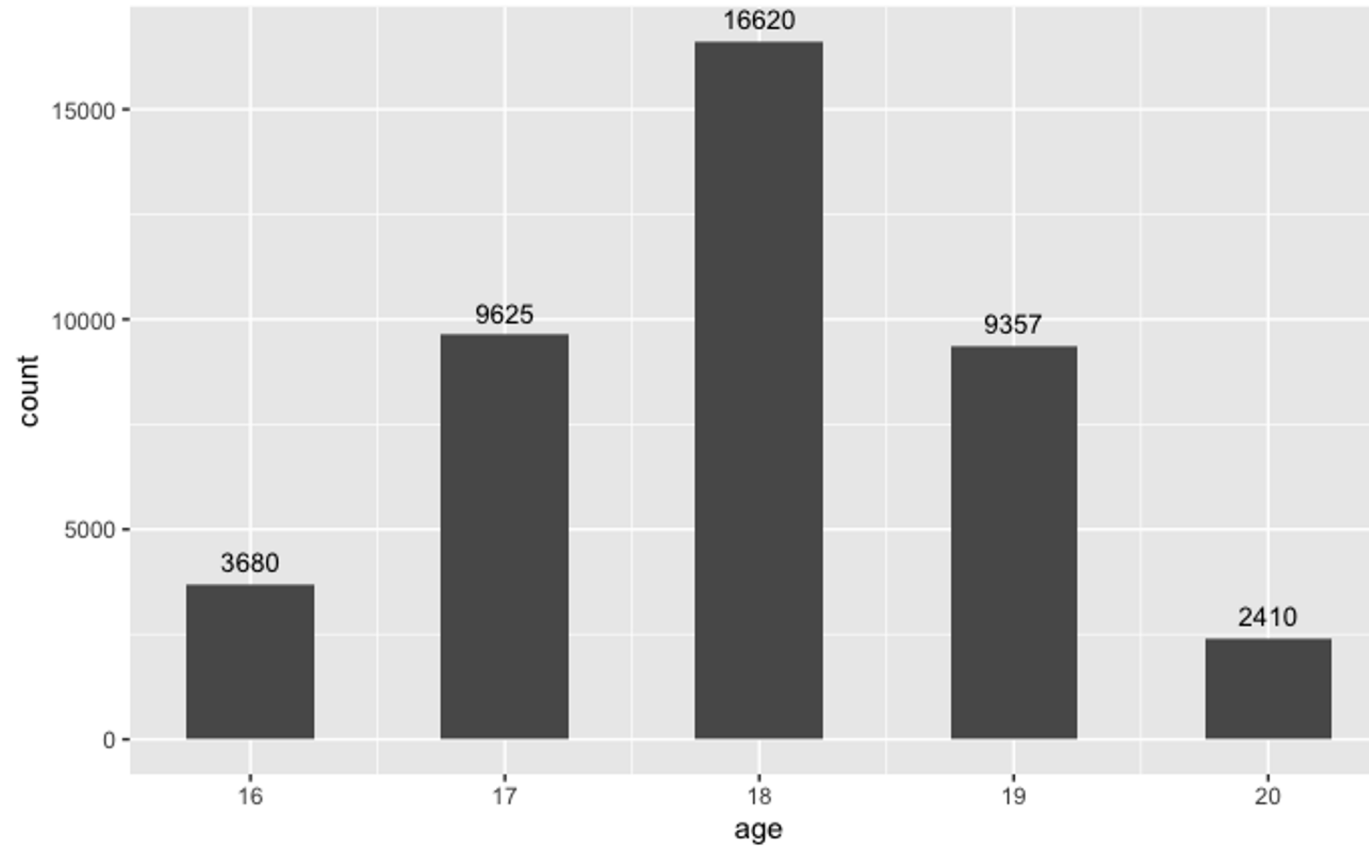
## Female vs. Male Liberal Studies Students



# Liberal Studies Applicants

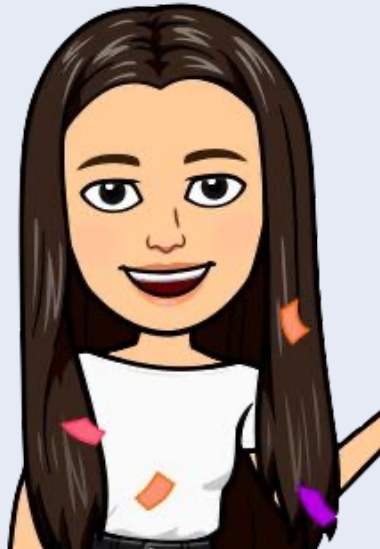


# Age Distribution of Liberal Studies Applicants



# Persona 4

## Wendy



National Student

From MA

3.34 GPA

18 years-old

Wants to pursue a degree in Liberal Studies

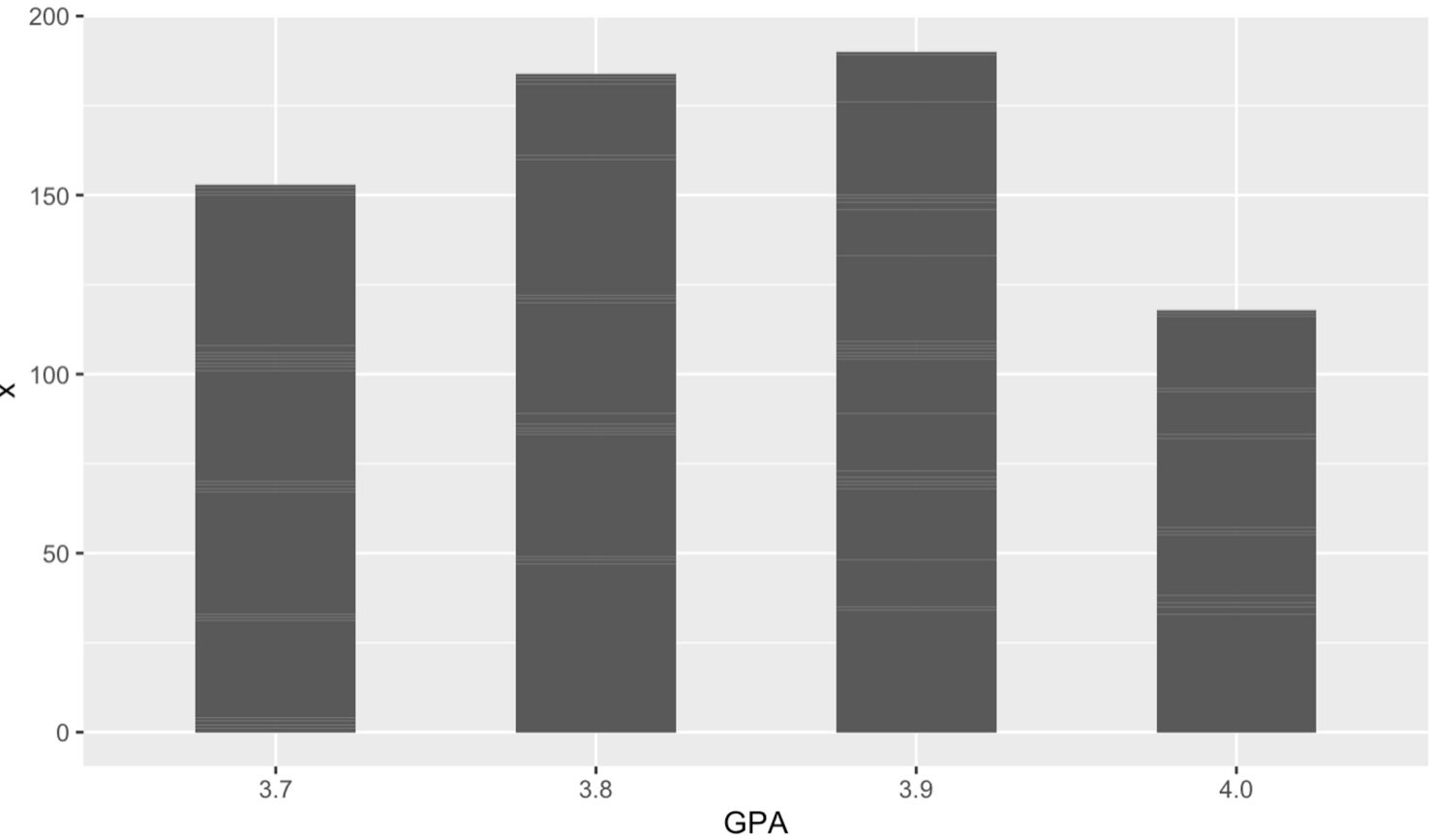
Median income:  
\$ 145,973

Female

Marketing strategy: Liberal Studies as a major doesn't need promotion since it is the most popular one among candidates, however, it is one of the least popular ones among enrolled students. We could try to understand why applicants don't end up being enrolled.

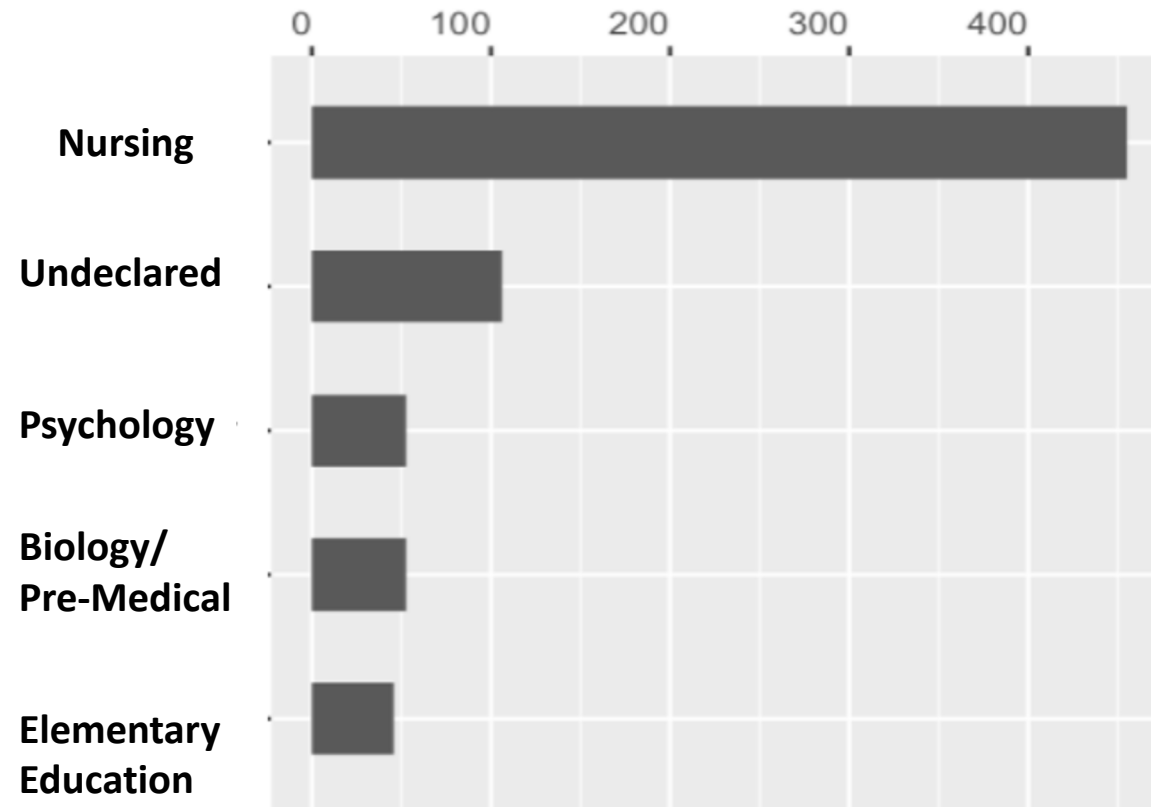


# Students with the best GPA in HS



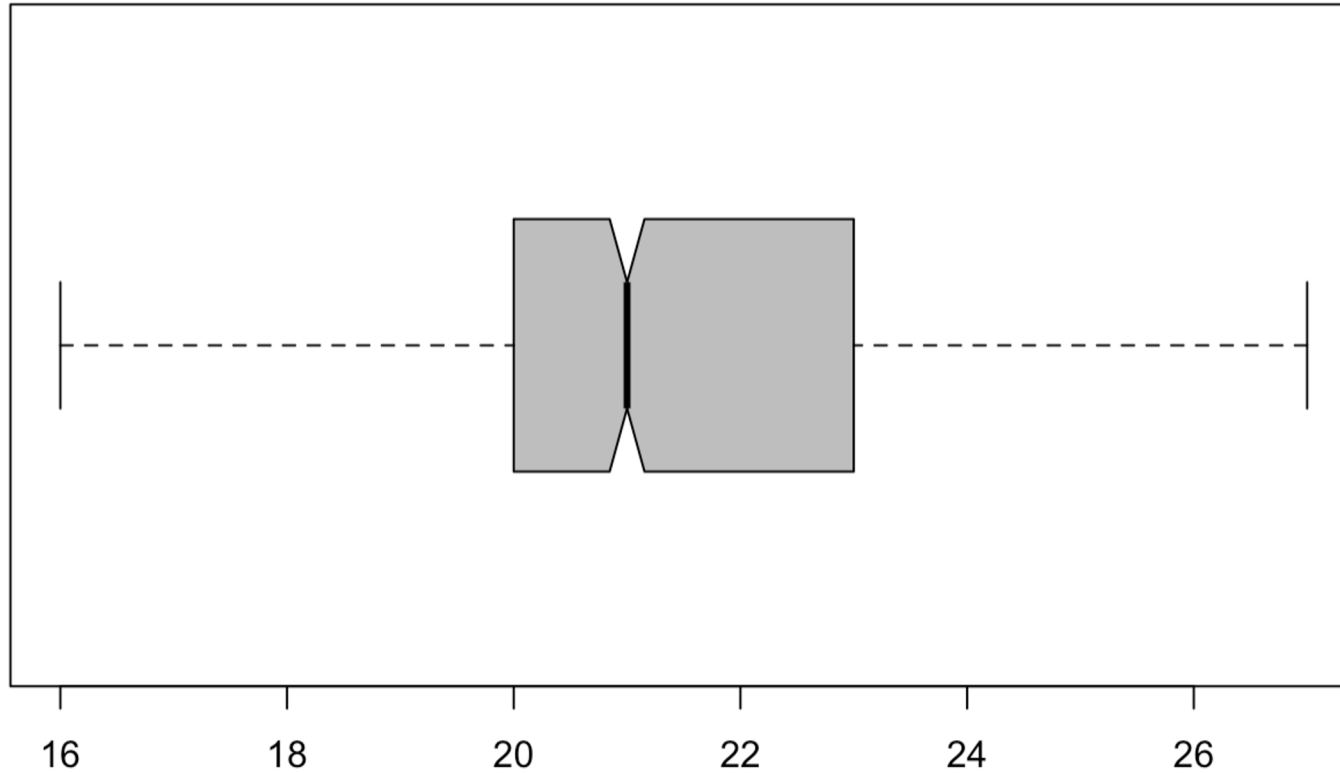
30%  
3.9

# Top 5 Chosen Majors by Them



**TOP 1**  
Nursing

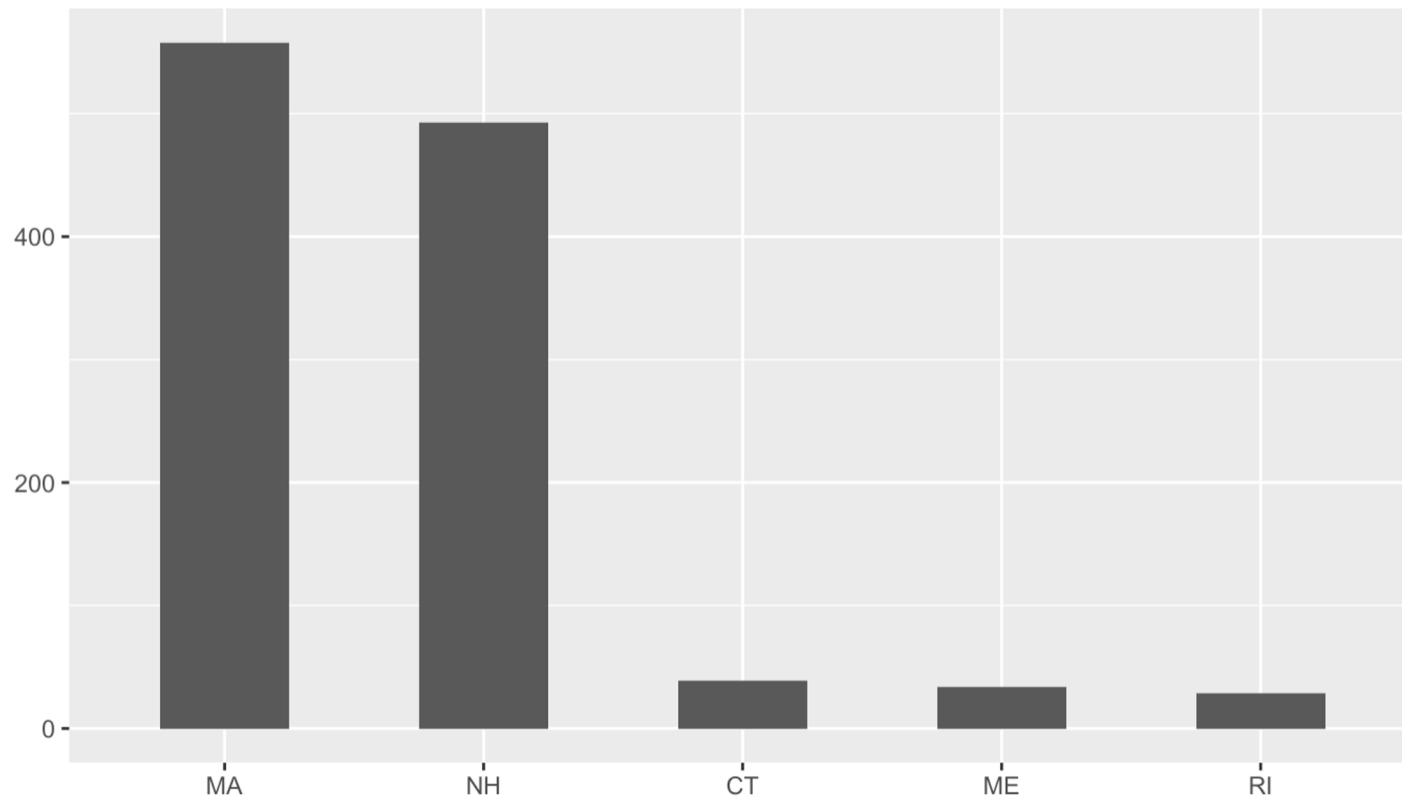
# Best HS GPA Students' age



21

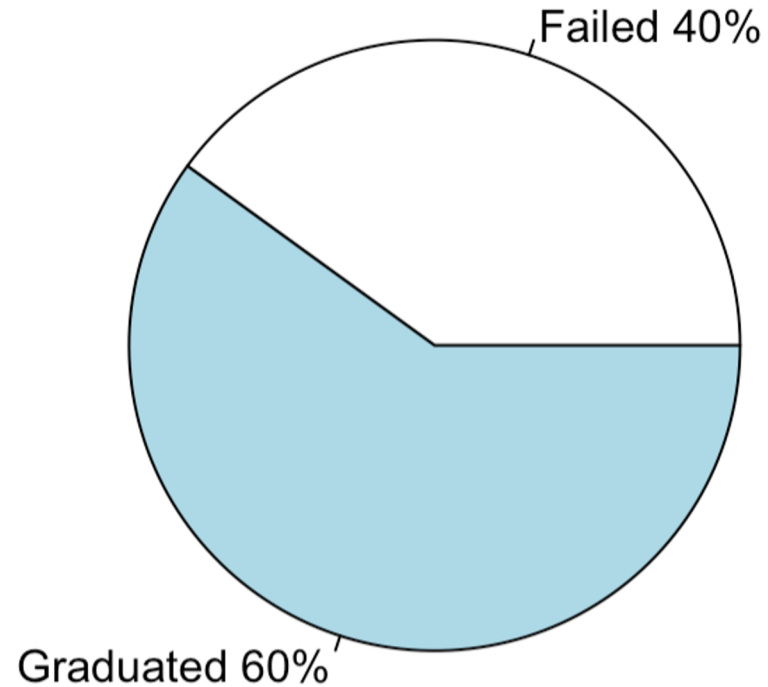
Avg. age removing  
outliers

# 5 States with the Most A



MA,  
Massachusetts

Most students get an A in high school are from Massachusetts.



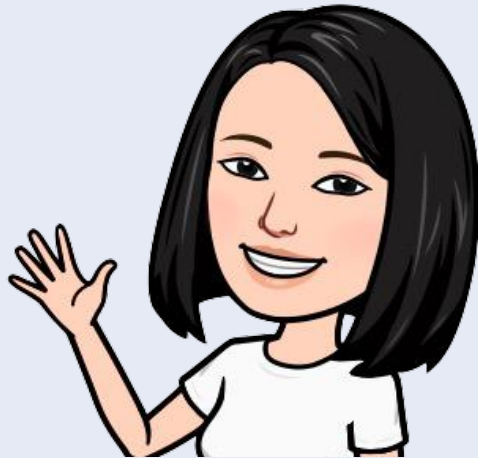
# Grade A Students "College Graduation"

**60%**

Graduation

# Persona 5

## Sarah



National Student

Wants to pursue a degree in Nursing

From MA

21 years-old

3.9 GPA

Female

Marketing strategy: 1. Nursing major can target students with high GPA in MA and NH since most grade A students who are interested in nursing major are from these two states.  
2. Set "Elite Club" to attract the top students.

A background image of a college campus with trees and a brick building. A large blue rectangle with a wavy bottom edge is overlaid on the image, containing the word 'Questions?'.

# Questions?