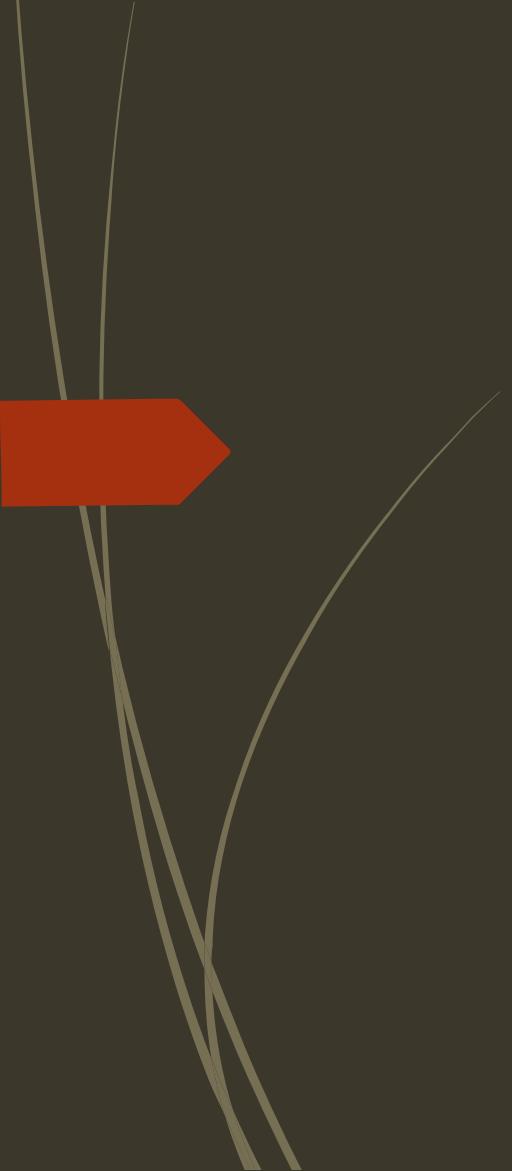


# College Education Earning

By: Asteway Kebede

Feb, 2022





Client

Need

---

Department of  
Education

---

---

Data-Driven Student  
Earnings Analysis

# Problem

Students are not earning  
enough to meet cost of living

Cost of living is the  
money one needs to pay  
basic bills



## Measuring Success

National cost of living  
average of \$3,200 per month

Plus or Minus state of  
study Cost Index

# Success





## Goal

Increase the number of schools above the national cost of living standard

# Data Science Solution



Build a linear  
regression model



To forecast future  
earnings



## Impact Hypothesis

By  
forecasting  
future  
earnings

Using a Regression Model

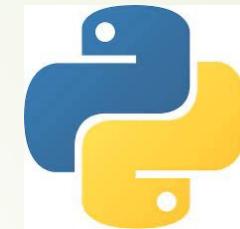


students  
will make  
better  
informed  
decisions  
by:

Understanding their future earnings to  
decide

How much debt to take on

Data Collection using  
API



Exploratory Data  
Analysis



Visualization



Process & Tools



## The Data

---

**U.S. Dept.  
of  
Education**

Website - <https://collegescorecard.ed.gov/data/>

---

Contains institution-level data  
for accredited institutions

---

**U.S.  
Bureau Of  
Labor  
Statistics**

Website - <https://www.bls.gov/bls/blswage.htm>

---

Provides occupational wage  
data

---



# The Data

List of  
Universities

Education  
Expenses

Student Debt  
Balances

Earnings after  
6 years from  
Graduation

Admissions &  
Records

Obtained from direct reporting from institutions, federal financial aid, and tax information

# Methodology

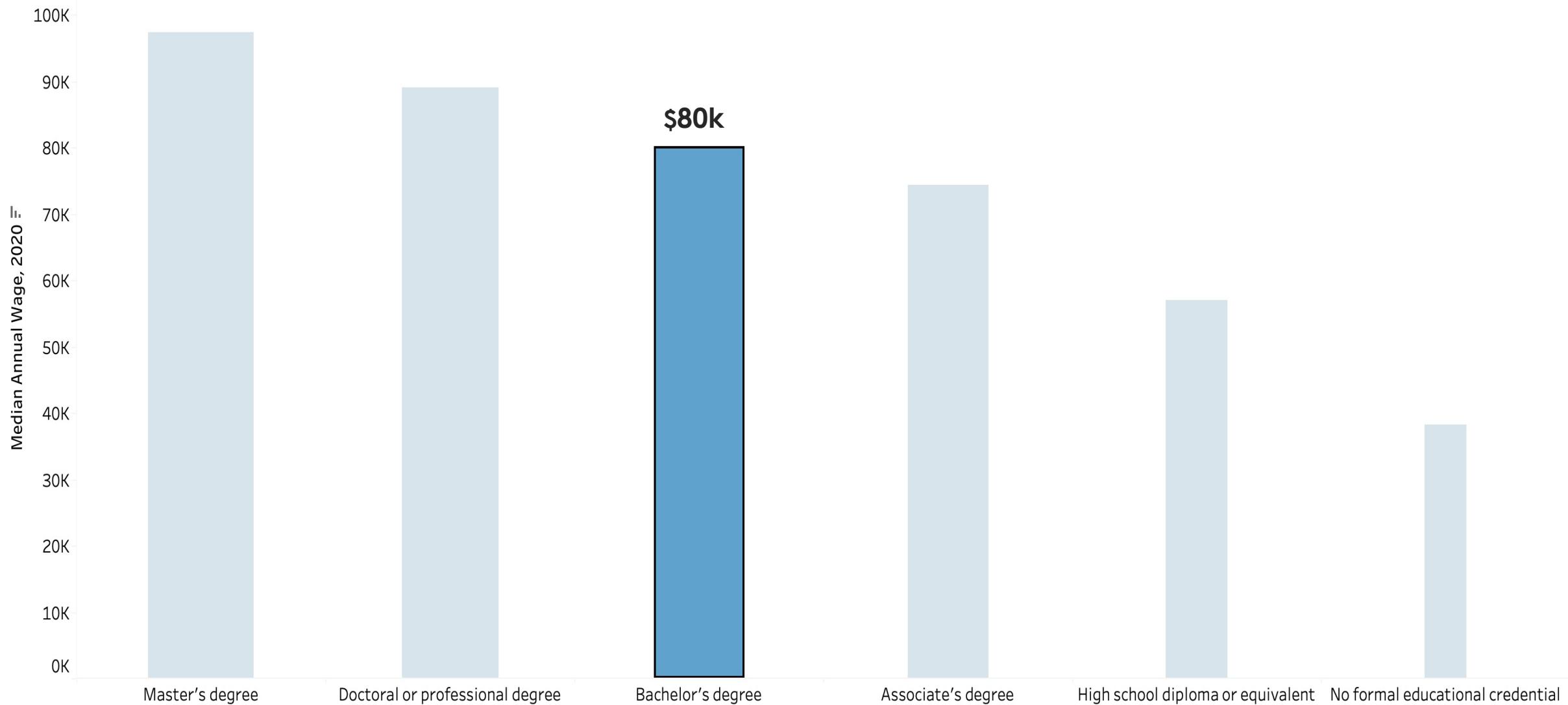
Quality of School

The cost

The expected future earnings

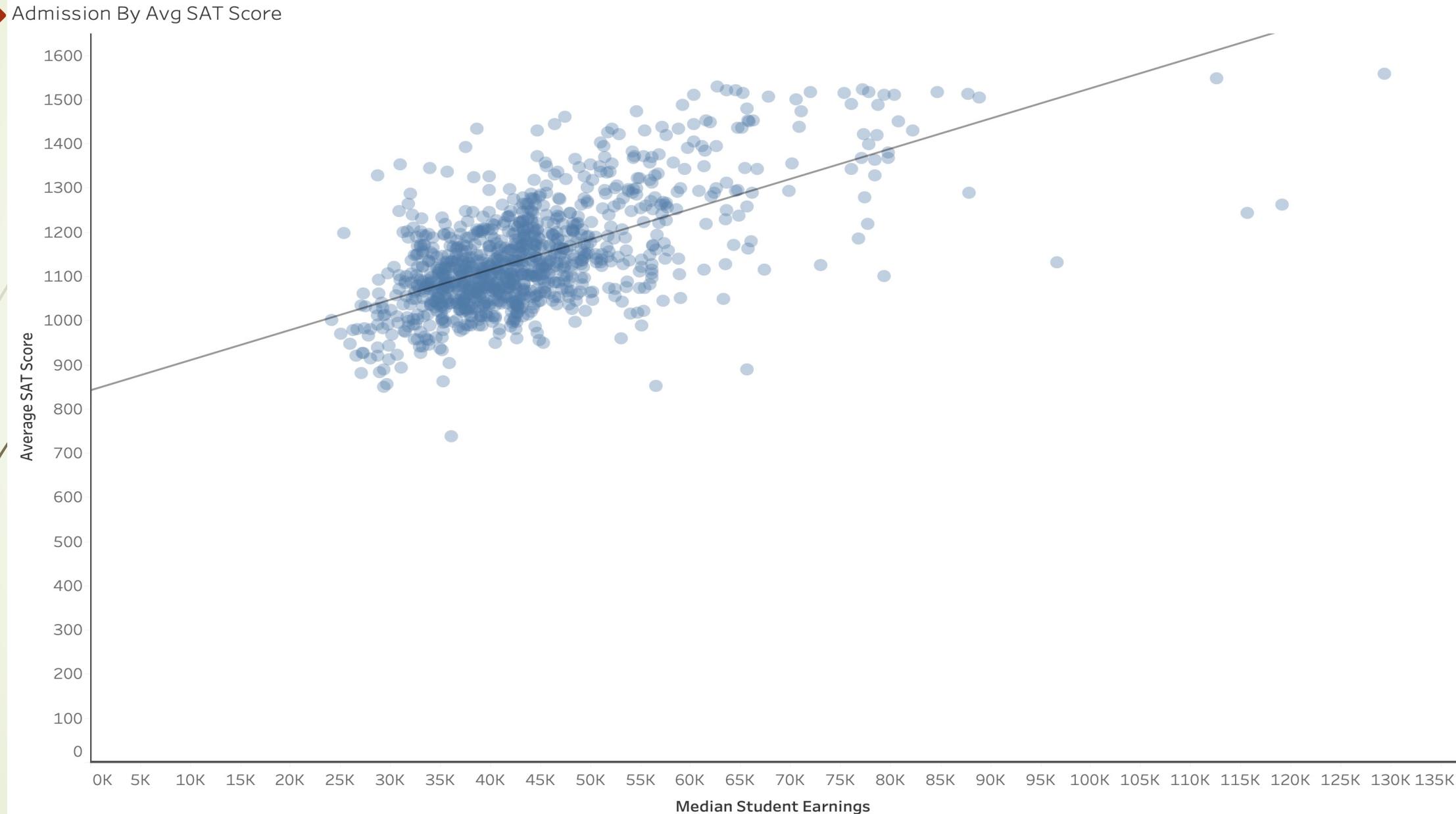
The amount of debt to be taken on

## Earnings By Education Degree Type

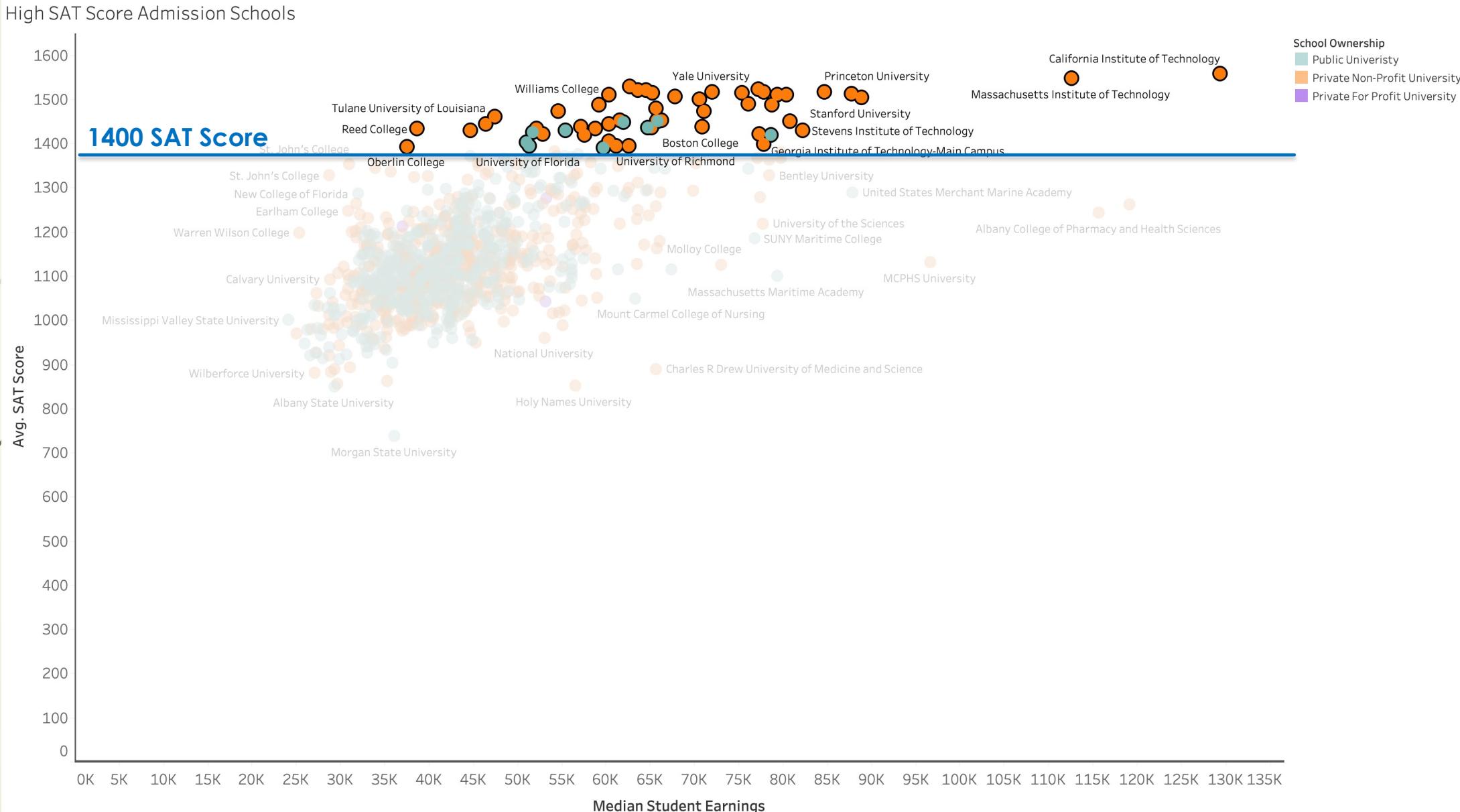


National Income by Degree Type

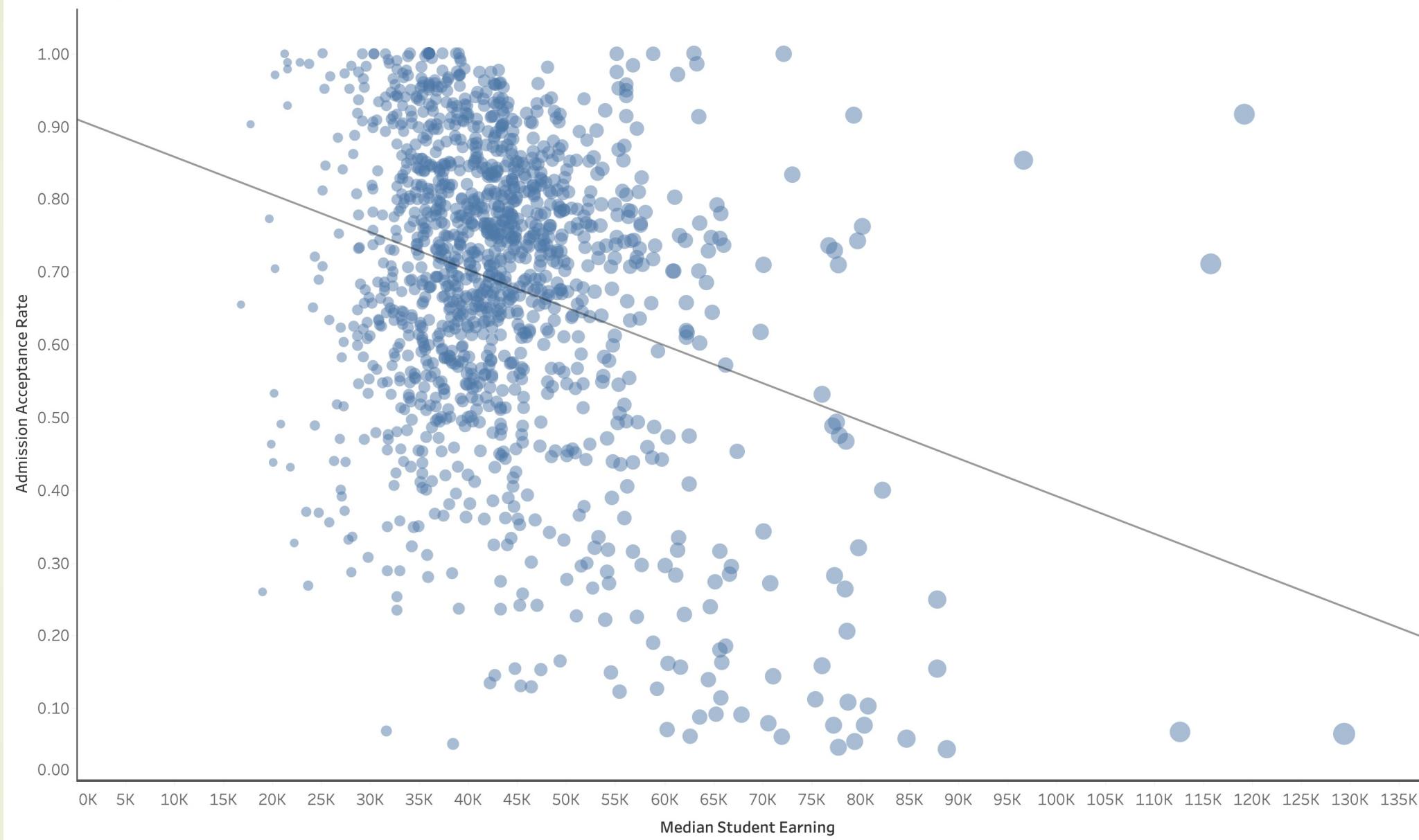
# School Quality by SAT



# School Quality by SAT

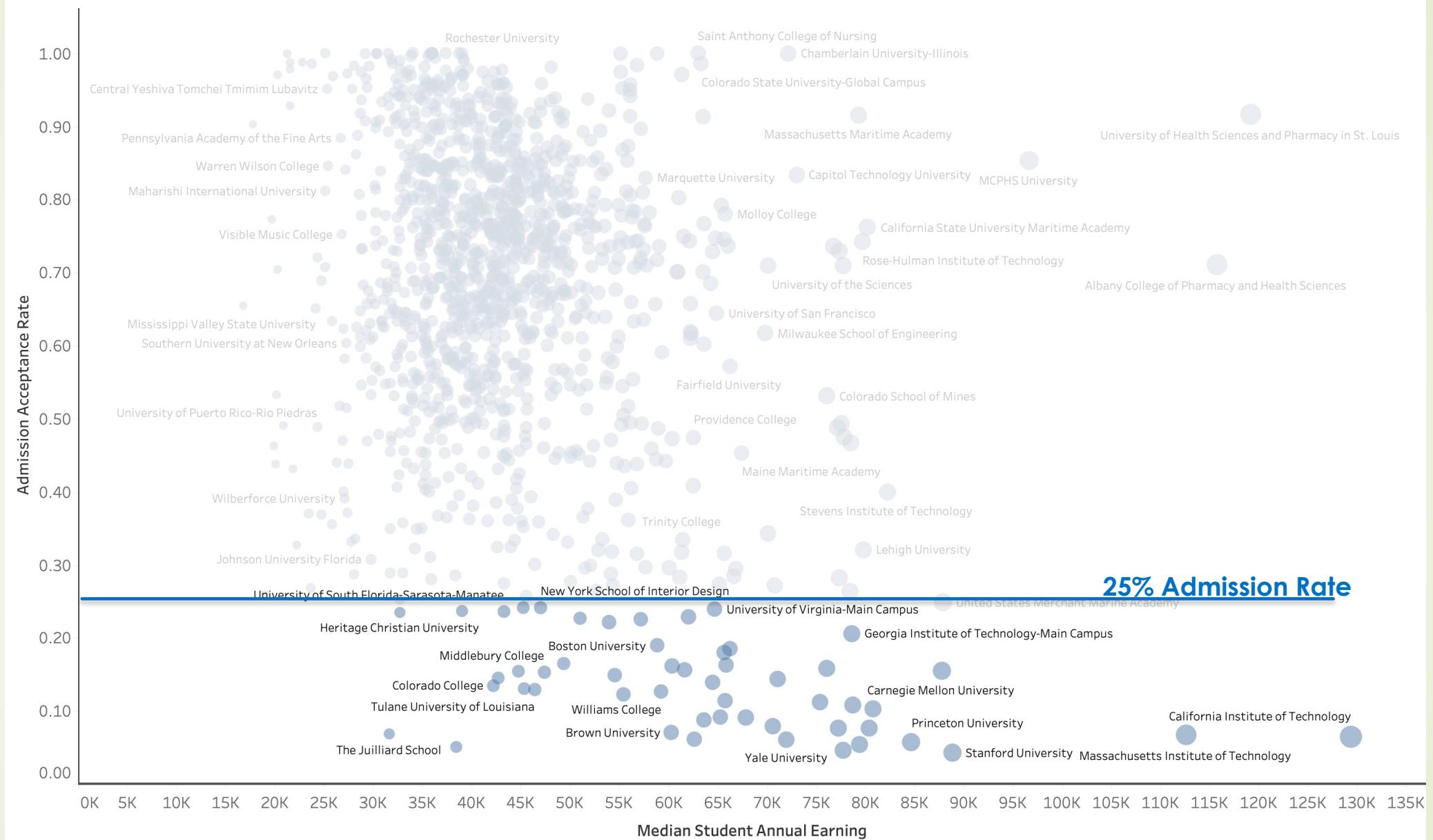


Admission by School Acceptance Rate



School Quality By Admission Rate

## Top Admission Acceptance Rate Schools



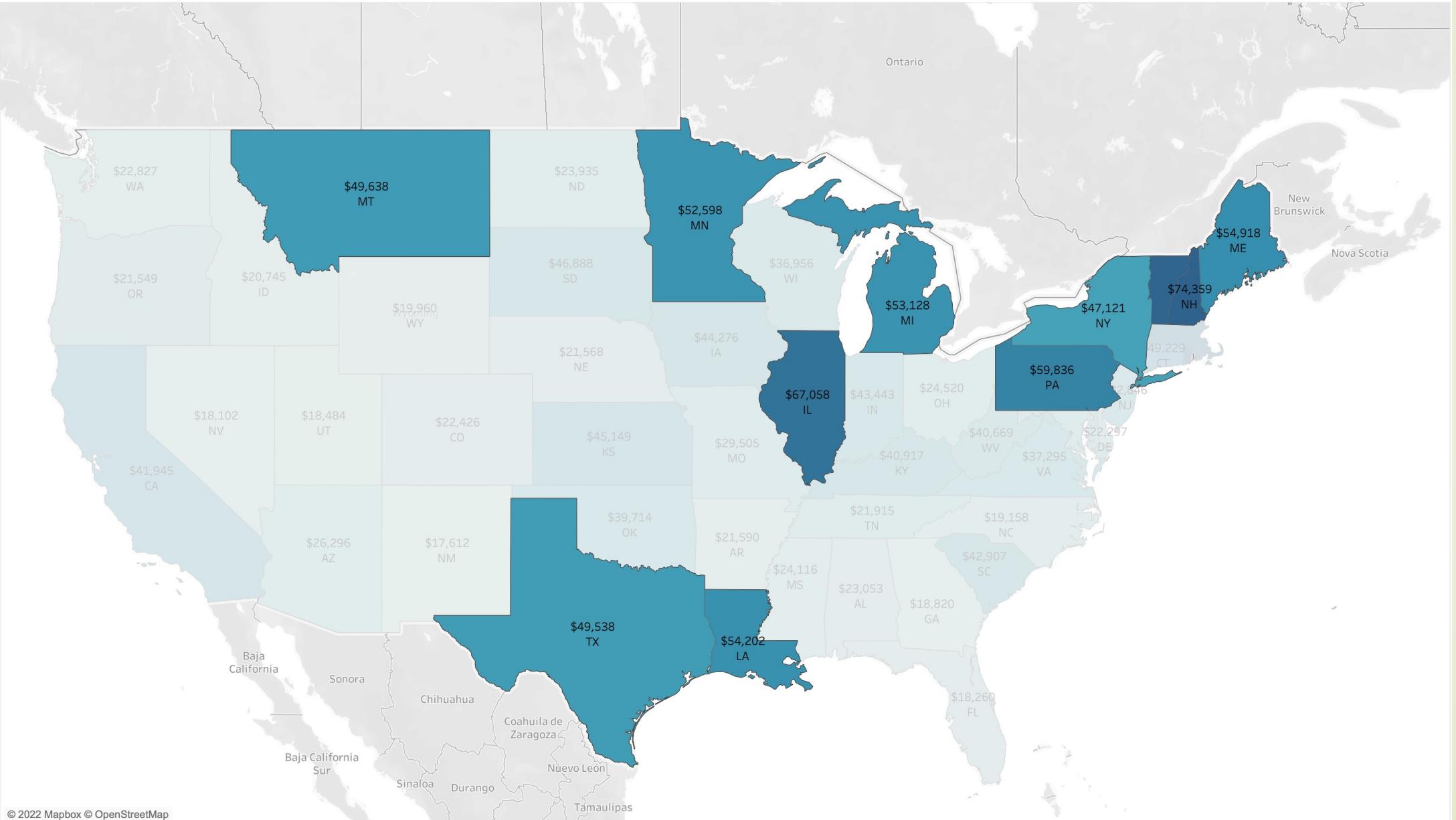
**School Quality By Admission Rate**

# Cost of School



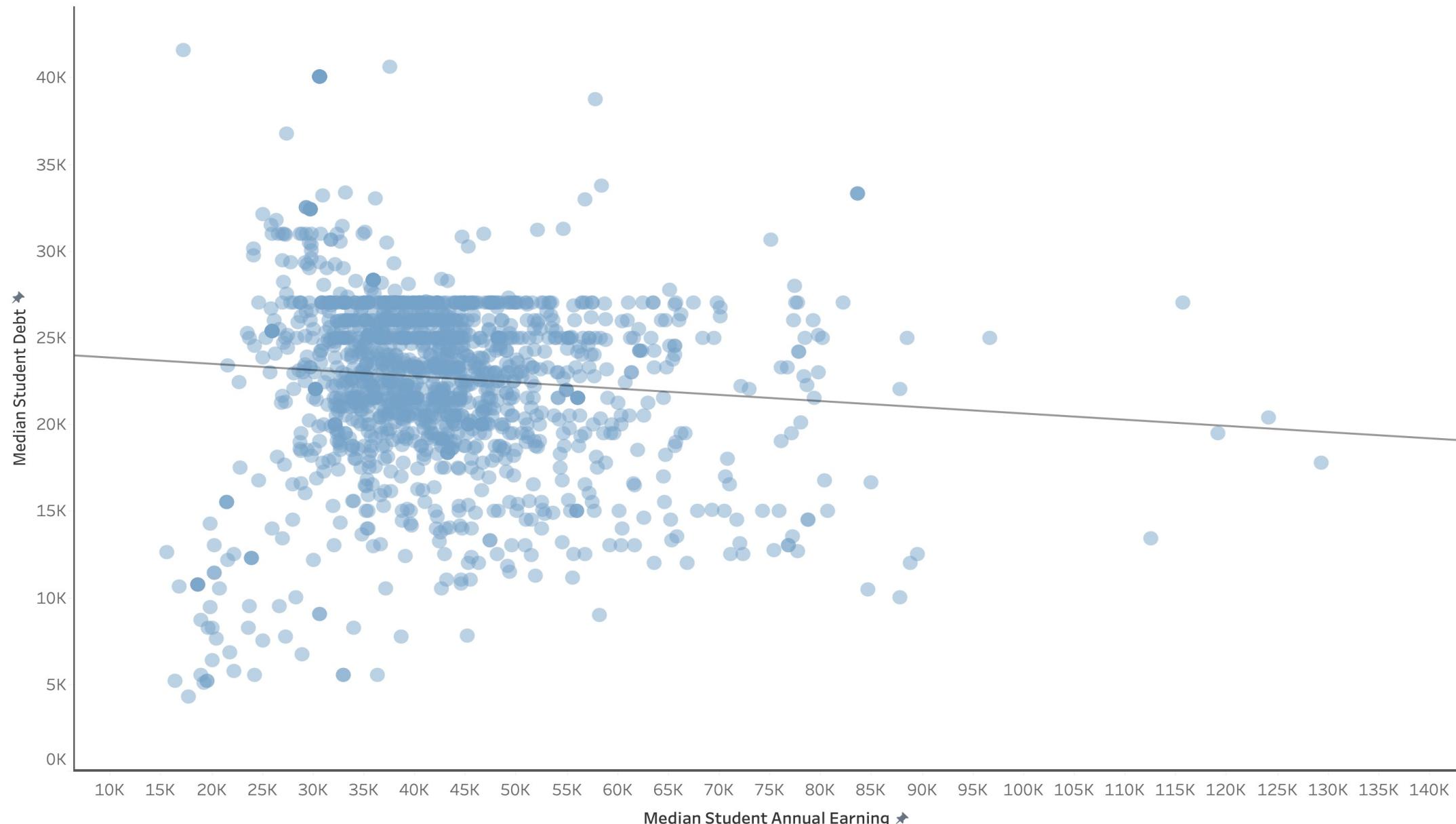
# Cost of School

Education Cost by State

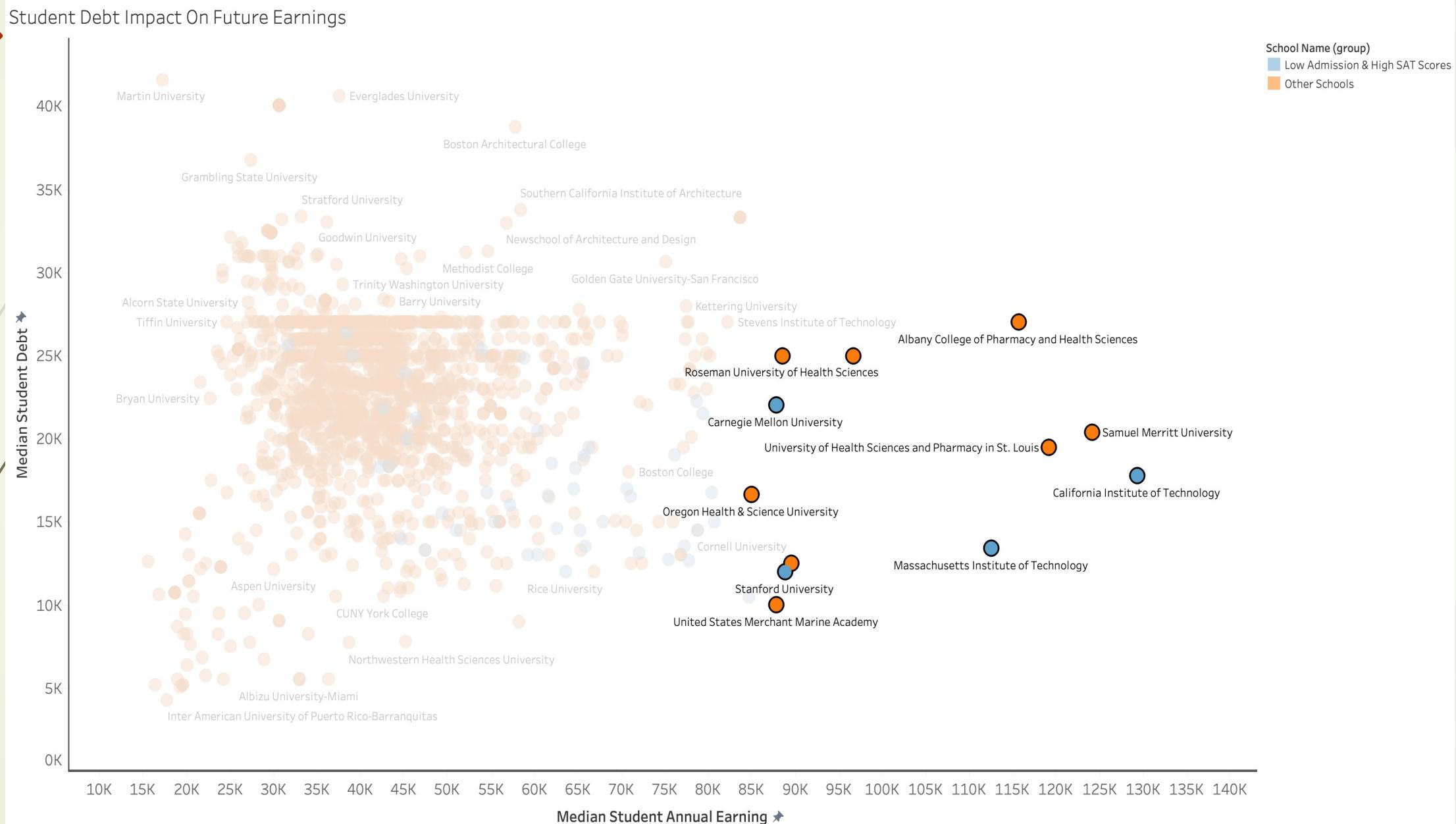


# Student Debt vs Earnings

Student Debt Impact On Future Earning

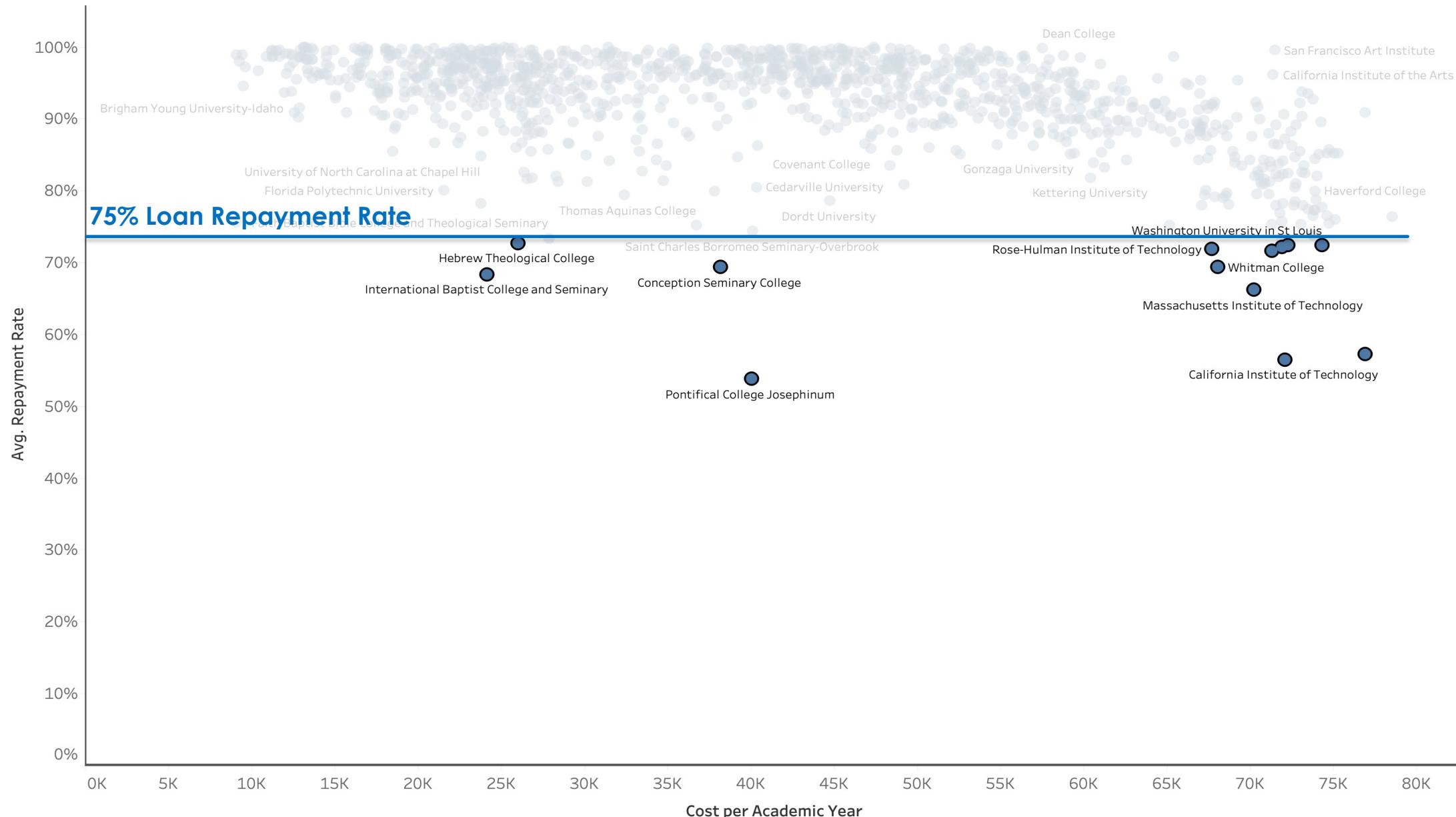


# Student Debt vs Earnings



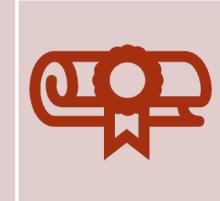
# Debt Repayment

Cost vs Debt Repayment Rate

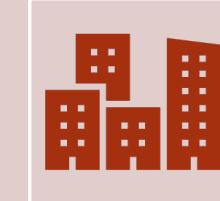




## Future work



DEGREE OF STUDY



BY CITY



# Thank You!

Any Questions?

