**Does Earning AP Exam Credit Have an Impact on GPA?**

Norean Sharpe  
November 16, 2013

**Sample**

- Sample consists of 3 classes of Georgetown undergraduates:  
  - Class 2016: 360 students  
  - Class 2015: 388 students  
  - Class 2014: 358 students  

- Dependent Variables:  Cum GPA, OPIM GPA, ACCT GPA

- Independent Variables:  Gender, Math SAT, AP Calc Credit, AP Stat Credit, Quant Major (yes/no)

- Sample size in Final Models:  
  - Class 2016: 232 students  
  - Class 2015: 255 students  
  - Class 2014: 256 students

**Demographics of Sample**

- Percentage of Females
- Percentage of Quant Majors
- Percentage w/ AP Calc Credit
- Percentage w/ AP Stat Credit

**SAT Math Scores**

**T-scores,Cumulative GPA**

**T-scores, ACCT GPA**
Conclusions

- Whether or not the student earned AP Stat credit had no relationship on GPA (neither positive, nor negative)
- Early in student’s career, SAT Math score has strongest relationship to GPA
- The relationship between SAT Math score and GPA declines as students progress through university
- The relationship between AP Calc credit and GPA declines as students progress through university
- The relationship between gender and GPA increases as students progress through university
- Quantitative majors (ACCT, FINC, or OPIM) on average have higher Cum GPAs
- These factors account for 25% - 35% of the variation in GPA
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Percentage of Females

Percentage of Quant Majors

Percentage w/ AP Calc Credit

Percentage w/ AP Stat Credit
SAT Math Scores

Average

Median

2014
2015
2016
T-scores, ACCT GPA
$R^2_{\text{adj}}$ Values for Final Regression: Quant/non-quant, AP Calc, SAT Math, Gender
Conclusions

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