One page description

James Malloy

# Topic

# Background

# Research Question

What characteristics explain the differences in GPA pre- and post-Pandemic?

* Professor characteristics (Sex/Gender, Age, Tenure, etc.)
* Course level (Graduate vs Undergraduate)
* College (e.g. CEHD vs PMAP vs Robinson Business School, etc.)
* Department (EPRS vs EPSF vs EPY etc.)

read\_csv("fall\_vs\_spring.csv") %>%   
 select(professor, course, crn\_fall, crn\_spring, n\_students\_fall, n\_students\_spring,  
 gpa\_fall, gpa\_spring, diff) %>%   
 head(10) %>%   
 kable(caption = "Academic Year 2019-2020")

Academic Year 2019-2020

| professor | course | crn\_fall | crn\_spring | n\_students\_fall | n\_students\_spring | gpa\_fall | gpa\_spring | diff |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Moore, Robert | ECON 2100 | 80001 | 21971 | 14 | 10 | 3.86 | 4.11 | 0.25 |
| Tolley, Michael | ART 1010 | 80046 | 21045 | 22 | 21 | 3.14 | 2.90 | -0.24 |
| Wilson, Jiha | ART 1010 | 80047 | 11628 | 22 | 20 | 3.29 | 3.15 | -0.14 |
| Camoosa, Joseph | ART 1010 | 80048 | 15439 | 17 | 20 | 3.85 | 3.89 | 0.04 |
| Kroeppler, Karl | ART 1020 | 80049 | 13067 | 18 | 18 | 2.76 | 3.38 | 0.62 |
| Sturgess, Robert | ART 1030 | 80050 | 11634 | 16 | 17 | 2.50 | 3.60 | 1.10 |
| McGimsey, Ben | ASTR 1000 | 80052 | 11711 | 62 | 95 | 2.29 | 2.60 | 0.31 |
| McGimsey, Ben | ASTR 1000 | 80052 | 17230 | 62 | 62 | 2.29 | 3.37 | 1.08 |
| Beirne, Mark | BIOL 2300 | 80057 | 17699 | 115 | 100 | 2.86 | 2.71 | -0.15 |
| Song, Chi-Sun | BIOL 3800 | 80058 | 22674 | 35 | 58 | 2.47 | 2.75 | 0.28 |

fall\_vs\_spring %>% ggplot(aes(diff)) +   
 geom\_histogram(color = "white", binwidth = .1) +  
 labs(x = "Difference in GPA",  
 title = "What is the distribution of the DV, difference?",  
 subtitle = "Fall 2019 vs Spring 2020")

