Your project title

Team Name: Team member 1, Team member 2, Team member 3, Team member 4

Invalid Date

```
Rows: 634
Columns: 15
$ subject_id
                       <dbl> 185, 158, 209, 102, 174, 184, 255, 265, 343, 137~
$ study
                       <chr> "lac1", "lac1", "lac1", "lac1", "lac1", "lac1", ~
$ cohort
$ demo_race
                       <dbl> 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ demo_gender
                       <dbl> 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, ~
                       <dbl> 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, ~
$ demo_firstgen
$ bedtime_mssd
                       <dbl> 0.11672695, 0.14168084, 1.52928949, 0.13014845, ~
$ TotalSleepTime
                       <dbl> 432.2000, 391.9310, 344.3043, 392.6207, 423.4211~
$ midpoint_sleep
                       <dbl> 458.6600, 364.4655, 560.8913, 416.4828, 368.7632~
$ frac_nights_with_data <dbl> 0.8620690, 1.0000000, 0.7931034, 1.0000000, 0.65~
$ daytime_sleep
                       <dbl> 24.160000, 13.137931, 14.956522, 54.551724, 10.5~
                       <dbl> 3.00, 3.66, 3.57, 3.61, 3.21, 3.20, 3.40, 3.86, ~
$ cum_gpa
                       <dbl> 3.38, 2.60, 3.07, 3.56, 4.00, 3.36, 3.19, 3.28, ~
$ term_gpa
                       <dbl> 73, 64, 63, 61, 61, 60, 60, 60, 60, 59, 59, 58, ~
$ term_units
$ Zterm units ZofZ
                       <dbl> 4.0552949, 2.4825341, 2.3077829, 1.9582805, 1.95~
```

Your written report goes here!

! Important

Before you submit, make sure your code chunks are turned off with echo: false and there are no warnings or messages with warning: false and message: false in the YAML.

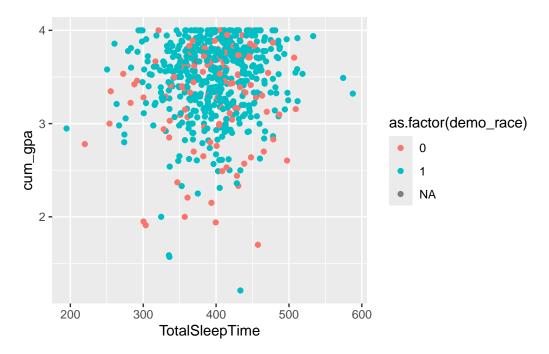
Exploratory Data Analysis

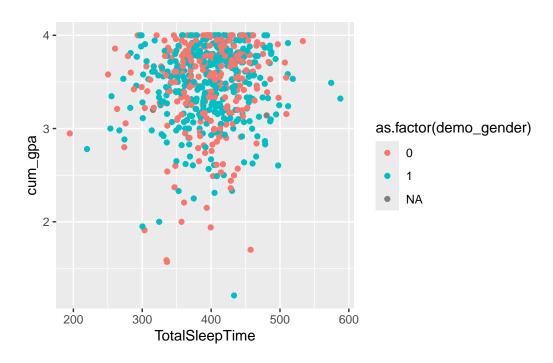
Clean Data

Rows: 634

```
Columns: 16
                       <dbl> 185, 158, 209, 102, 174, 184, 255, 265, 343, 137~
$ subject_id
$ study
                       $ cohort
                       <chr> "lac1", "lac1", "lac1", "lac1", "lac1", "lac1", ~
                       <dbl> 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ demo race
                       <dbl> 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, ~
$ demo_gender
$ demo firstgen
                       <dbl> 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, ~
                       <dbl> 0.11672695, 0.14168084, 1.52928949, 0.13014845, ~
$ bedtime_mssd
$ TotalSleepTime
                       <dbl> 432.2000, 391.9310, 344.3043, 392.6207, 423.4211~
                       <dbl> 458.6600, 364.4655, 560.8913, 416.4828, 368.7632~
$ midpoint_sleep
$ frac_nights_with_data <dbl> 0.8620690, 1.0000000, 0.7931034, 1.0000000, 0.65~
$ daytime_sleep
                       <dbl> 24.160000, 13.137931, 14.956522, 54.551724, 10.5~
                       <dbl> 3.00, 3.66, 3.57, 3.61, 3.21, 3.20, 3.40, 3.86, ~
$ cum_gpa
                       <dbl> 3.38, 2.60, 3.07, 3.56, 4.00, 3.36, 3.19, 3.28, ~
$ term_gpa
                       <dbl> 73, 64, 63, 61, 61, 60, 60, 60, 60, 59, 59, 58, ~
$ term_units
$ Zterm_units_ZofZ
                       <dbl> 4.0552949, 2.4825341, 2.3077829, 1.9582805, 1.95~
$ university
                       <chr> "stem_priv", "stem_priv", "stem_priv", "stem_pri~
```

Bivariate EDA of Response & Key Predictor Variables





Distribution of Cumulative GPA by University

