

# Snooze Your Way to Success: Evaluation of the Impact of Sleep Quality and Perceived Stress Among UCSD Students

Authors: Natasha Mortera, Tadea Noriega, Ethan Pham, Theresa Vu, Kyle Yun

Poor self-reported sleep quality and napping are associated with increased perceived stress.

## BACKGROUND

- The National Sleep Foundation recommends college aged students get **7-9 hours of sleep** to:
  - Maintain **healthy cognitive function**<sup>1</sup>
  - Reduce risk** of adverse physical/mental health outcomes<sup>1</sup>
- Research shows **positive association** with students experiencing **emotional distress/perceived stress** and **poor sleeping patterns**.<sup>2</sup>
- College students often have **poor sleep patterns**, leading to **increased** levels of **stress** and **delay** in performance.<sup>3</sup>

## OBJECTIVES

- To examine **perceived sleep quality**, schedule, and **stress levels** among UC San Diego college students.
- To determine:
  - Perceived stress levels** based on the impact of sleep quality and duration
  - Whether self-identifying measures demonstrate an association with **sleep quality** and **perceived stress**

## METHODS

- Utilized Qualtrics program to generate questionnaire/survey for UCSD students**
  - Based on their most recently completed quarter
- Exposure:** Amount and **quality of sleep** assessed using modified questions from the Pittsburgh Sleep Quality Index<sup>4</sup> (**Max score (25)** indicates **poor sleep quality**)
- Outcome:** **Perceived Stress** measured using modified questions from the Cohen perceived stress scale<sup>5</sup> (**Max score (25)** indicates **greatest perceived stress**)
- Survey Distribution:** Disseminated through various media platforms
- Data Analysis Tool:** SPSS
  - Types of Test:** ANOVA with a Post-Hoc Test, Student's Two Sample T-Test

## CONCLUSION

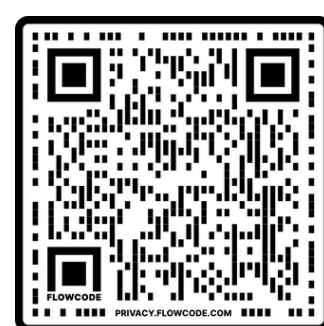
- Quality of sleep does not correlate** to **perceived stress**
- Frequent naps** ( $\geq 4$  naps/week) **increase risk** of high levels of **perceived stress**
- Practicing stable sleeping habits **may improve sleep quality** and lower **perceived stress**
- Commuting, student status, housing situation, work/extracurricular commitment was **not associated** with changes in **sleep quality** and **perceived stress**

## POLICY IMPLICATIONS

- The university should:**
  - Administer a **sleep assessment** to further understand student **sleep behaviors** and the numerous factors with **relation to stress**
  - Provide information at career centers, student health centers, classrooms, and email newsletters on why students should **prioritize sleep**

## ACKNOWLEDGMENT

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Scan for References

## RESULTS

Table 1: Participant Demographics (n=149)

	Percentage
<b>Racial Identity</b>	
White or Caucasian	7.38%
African Indian/Native American	0.67%
Black or African American	0.67%
Asian or Asian American	57.05%
Hispanic or Latinx	21.48%
Other	4.03%
More than one racial identity	8.72%
<b>Gender Identity</b>	
Male	36.91%
Female	60.40%
Non-binary	2.01%
Abstain	0.67%
<b>Age</b>	
18-20	41.61%
21-23	55.03%
24+	3.36%
<b>Commuter / Housing Status</b>	
Commuter / Lives Off Campus	70.47%
NonCommuter / Lives On Campus	29.53%
<b>Student Status</b>	
Undergraduate	96.64%
Graduate	3.36%
<b>Units Enrolled in Most Recent Quarter</b>	
Full-time ( $\geq 12$ units)	91.95%
Part-time ( $< 12$ units)	8.05%

Figure 3: Average Scores of **Sleep Quality** Based On Self-Identified Sleep Quality \*\*\*  $p < 0.001$

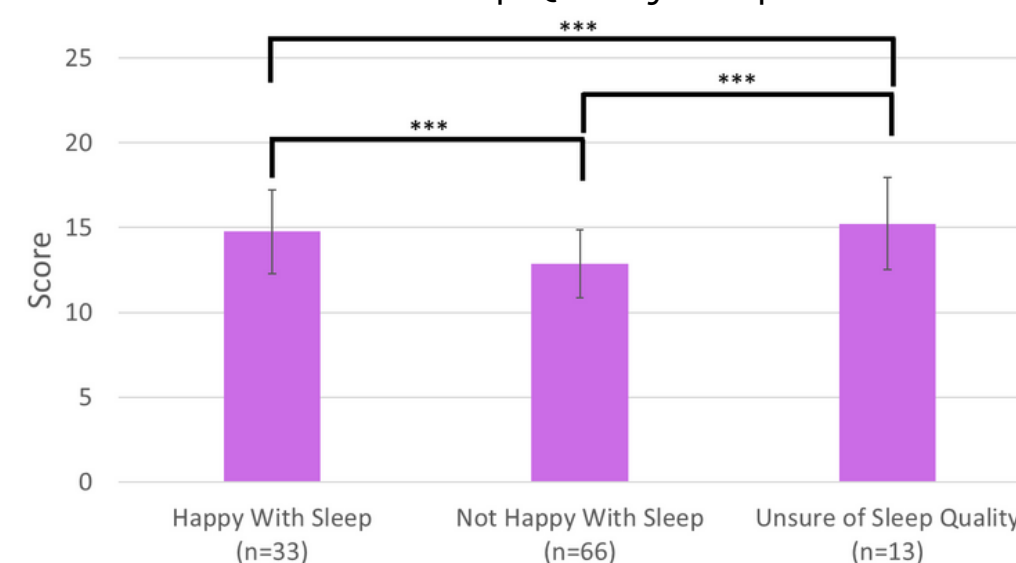


Figure 4: Average Scores of **Perceived Stress** Based On Self-Identified Sleep Quality; \*\*  $p < 0.01$

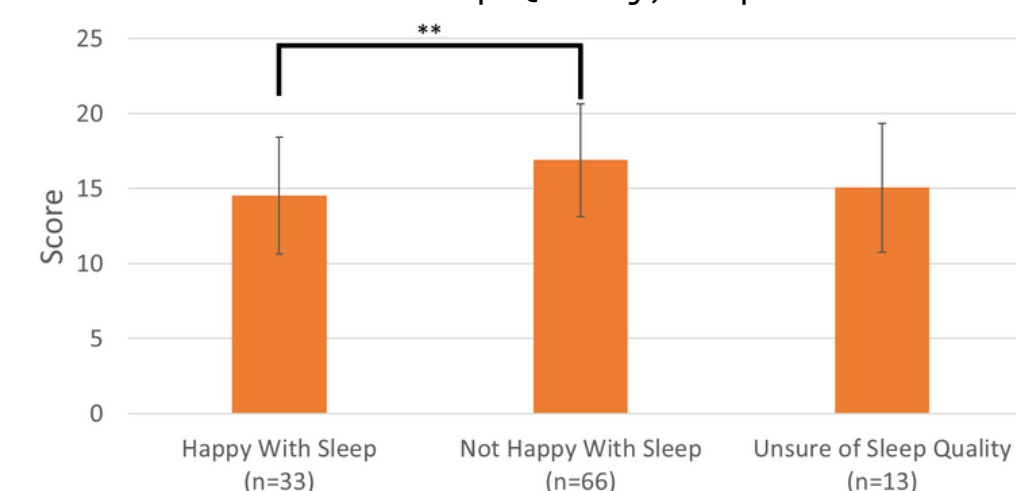


Figure 1: Percentage of Participant's Self-diagnosed sleeping type

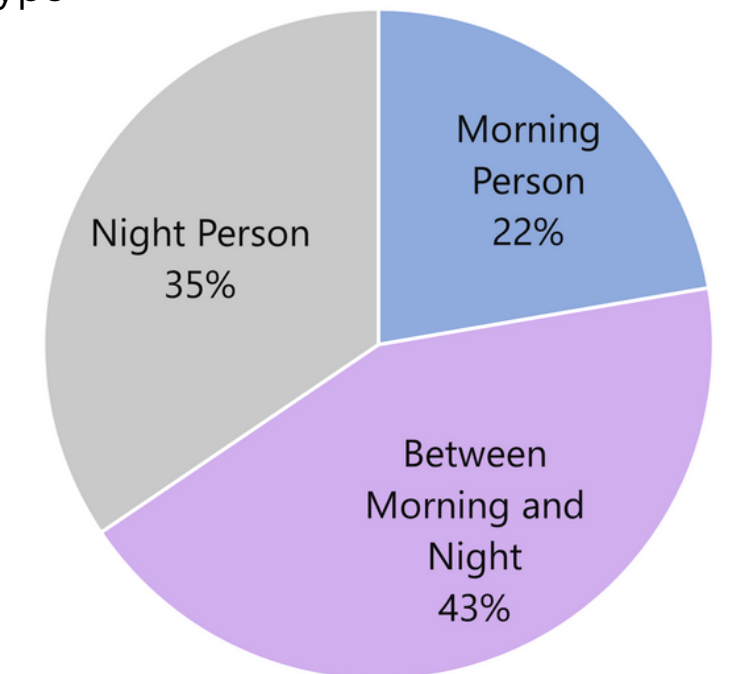


Figure 2: Heatmap of Prevalence in Participant's Sleep and Wake Time

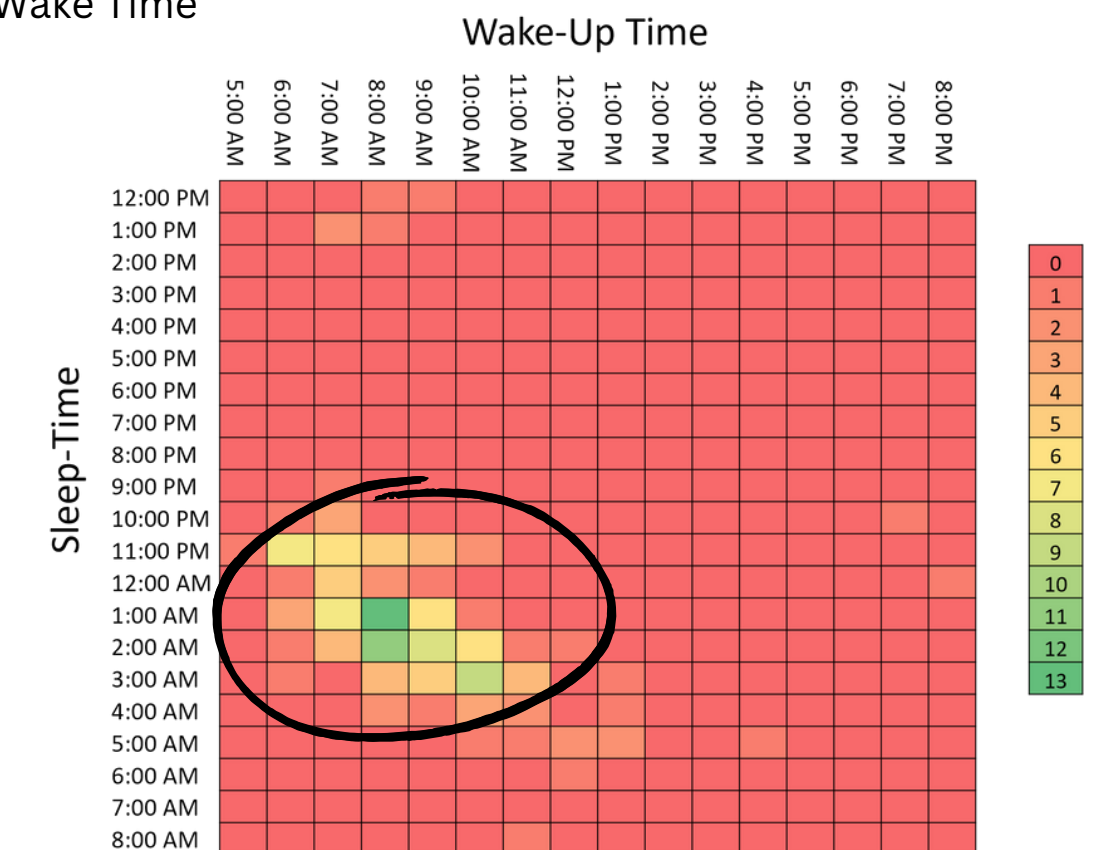


Figure 5: Average Scores of **Sleep Quality** and **Perceived Stress** Based On **Napping Frequency** \*  $p < 0.05$

