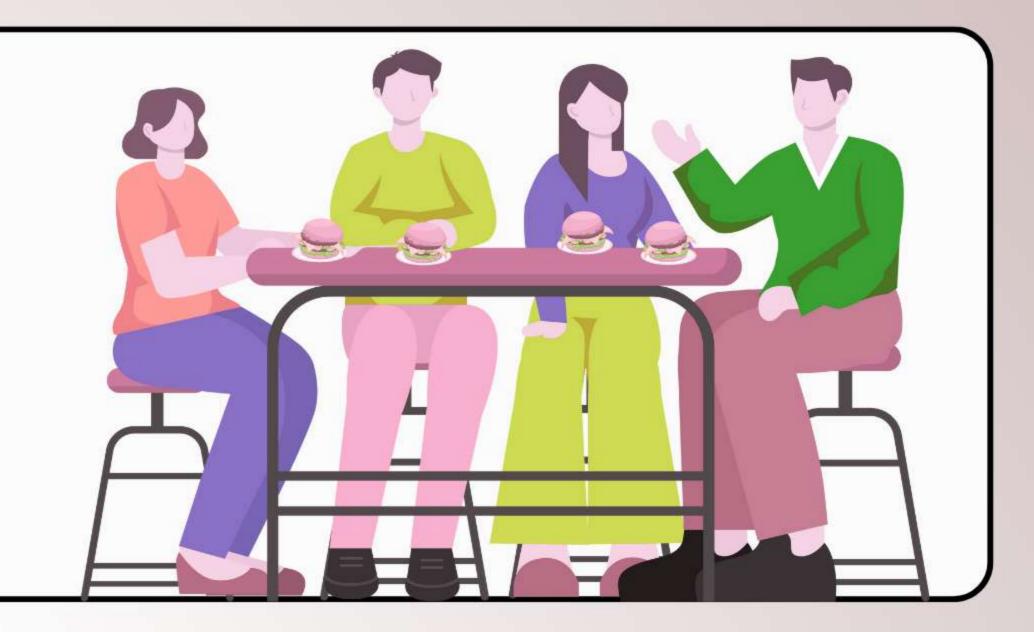
UC San Diego

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FORKS, FRIENDS, AND FAMILY

Exploring How Social Interactions Influence Nutrition Habits in Undergraduate Students Tiana Tran | Caroline Courtois | Ryan Both



BACKGROUND

- Students develop poor eating habits and behaviors in college¹
- Poor dietary habits are linked to increased rates of obesity (46%), type 1 diabetes (22%), and cardiovascular diseases (32%) in university students^{2,5}
- Obesity rates in young adults in the US rose from 32.7% to 40.9% between 2010 to 2020, due to poor diet and sedentary lifestyles⁴
- Dietary changes can reduce the risk of up to 40% of cancers and 50% of type 2 diabetes cases³
- While interventions often target individual behavior, the role of social interactions, peer norms and group dining, remains under-explored in shaping college students' eating habits

OBJECTIVE

To examine how social influences (such as family, friends, and roommates) can affect the dietary habits of undergraduate college students

METHODS

- Cross-sectional study conducted through an anonymous Qualtrics survey
- Targeted undergraduate college students, ages 18-24 (N=124)
- Survey consisted of 25 questions (categorical, matrix, and ranking questions)
- Survey was distributed through; email and social media platforms (Instagram and Snapchat)
- Recruitment period: April 2025 May 2025
- Statistical Analyses:
 - Chi-Square tests conducted via SPSS v29 were used to assess associations between:
 - Exposure → Social Dynamics (peer influence, family eating habits, roommate behaviors)
 - Outcome → Dietary habits (meal frequency, food choices)

RESULTS

Table 1. Demographic of the Table 2. Chi-Squared test of nutritional quality when eating with different social groups Survey Respondents (N=124)

Junior

Senior

Friends

Housemates

Alone

Family

habits

Residential Status

Off-Campus 91(73.4)

Living Situation

(Off-Campus)

70(76.9)

7(7.7)

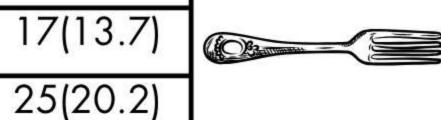
5(5.5)

4(4.4)

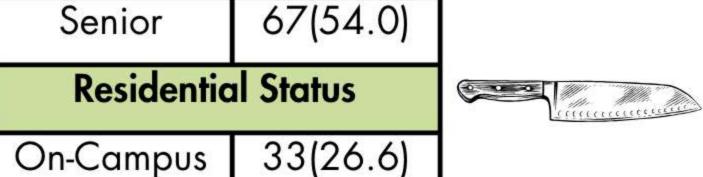
Age	n (%)	Soci	al	Statistical Outcome
18-20	44(35.5)	Grou	ıρ	Chi-Squared & P-Value
21-22	74(59.7)		1.	
23-24	6(4.8)	Roommates		7.624 (p =0.02)
Gender				
Male	47(37.9)	Frien	ds	2.323 (p = 0.31)
Female	77(62.1)			
Class Designation		Family		4.753 (p =0.09)
Freshman	15(12.1)			
Sophomore	17(13.7)		F	Roommate influence was sigr

Table 3. Chi-Squared test of feelings of judgement when eating with different social groups

Social Group	Statistical Outcome Chi-Squared & P-value		
Roommates	8.296 (p =0.04)		
Friends	1.165 (p =0.76)		
Family	4.849 (p =1.83)		



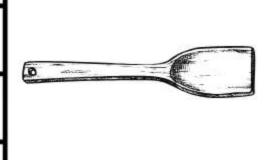
Roommate influence was **significantly associated** with nutritional quality (**p** = **0.02**) and feelings of judgment (p = 0.04) in Tables 2 & 3



Friends and family showed no significant impact, emphasizing roommates as the more immediate social influence in college in Tables 2 & 3



Majority of students (65.7%, n = 81) reported not feeling social pressure to eat a certain way, suggesting that overt peer pressure may not be a dominant factor in influencing dietary choices among college students



Most students (79.3%, n = 98) reported **not feeling judged** for their food choices, indicating that perceived judgment from peers may not be a widespread factor influencing eating behaviors

Figure 1. Presence of Group Influence on Eating Habits

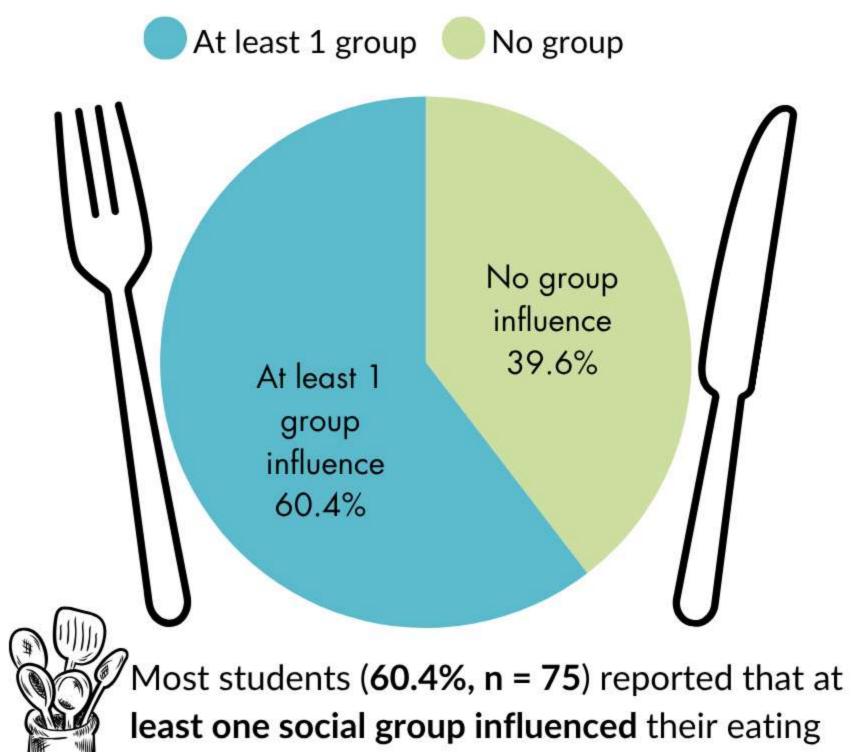
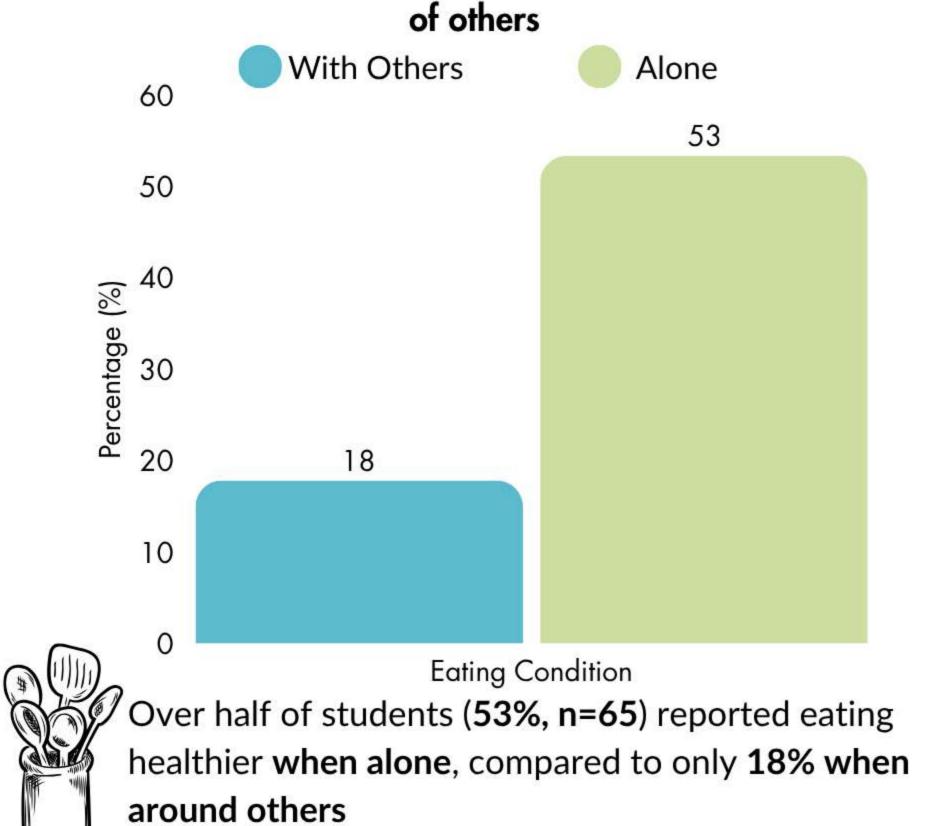


Figure 2. Healthier Eating Behavior Based on the Company



CONCLUSIONS

- With respondents reporting being influenced by at least one social group, it highlights the relevance of social dynamics in dietary behavior
- Findings suggest that roommates play a key role in shaping eating habits and self-perception which could be due to the shared living environment
- Our results suggest that subtle indirect social influences, like shared spaces and observed habits may influence college student eating habits
- Contrary to prior studies that reported family and friends influence eating habits, our results showed no significant effect, suggesting this influence may weaken as college students become more independent⁵
- Future research should explore how living arrangements and shared environments influence diet, helping to refine targeted interventions in college communities

POLICY IMPLICATIONS

- Promote roommate-focused health activites in campus housing, like shared cooking nights or grocery discounts, to support healthier eating among students who live together
- Design peer nutrition programs that target dorm life specifically, highlighting roommates as a primary influence rather than general peer groups

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REFERENCES

