UIUC Campus Transportation Survey 2025

Project process

Initial idea

The project began during my internship with Facilities & Services, aiming to improve the use of campus transportation survey data for deeper analysis and better planning decisions.

Starting Survey

The survey was launched on March 3rd. We used DMI to send 2,500 emails to undergraduate students and promoted it through digital newsletters and campus digital signage targeting graduate students, faculty, and staff.

Background Research

In the fall semester, I reviewed literature and case studies from other universities to identify best practices in campus mobility surveys and improve our survey design and data use.

Initial Data Presentation

The survey closed on April 6th. We analyzed responses by question and user group, and presented the initial findings at the iCAP Transportation Team meeting on May 6th.

Survey Design

we held several online meetings to revise the survey, making multiple edits to improve its clarity, relevance, and depth.

Final Report

By the end of summer, we will produce a detailed report with infographics, incorporating survey results, transportation plans, and related data.

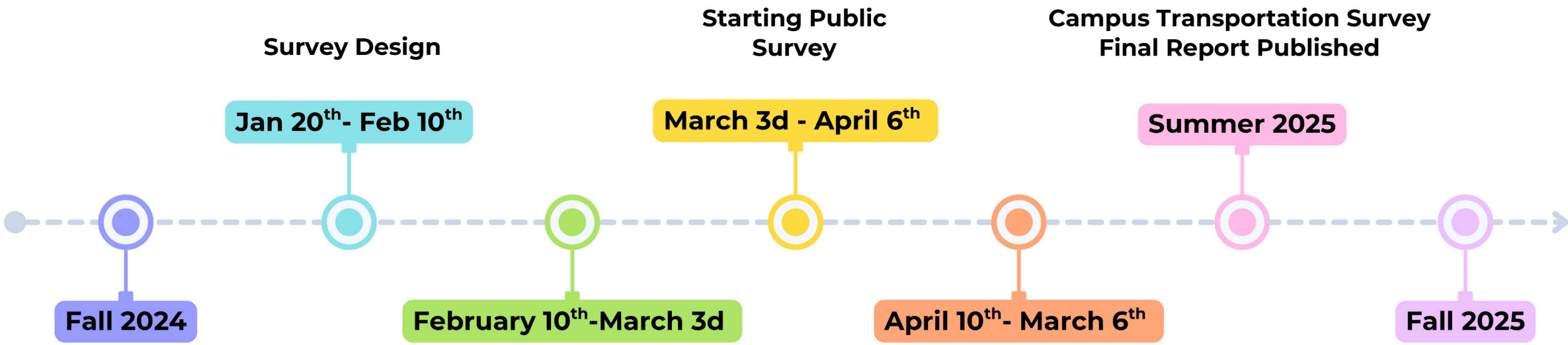
Feedback

We presented the revised survey to the iCAP Transportation Team and shared it with stakeholders at iSEE and Facilities & Services. Their feedback guided final refinements before completing the questionnaire sending it out.

Broader Impact

The final stage involves publishing a scientific article based on our analysis, aiming to serve as a model for campus transportation planning at universities across the U.S.

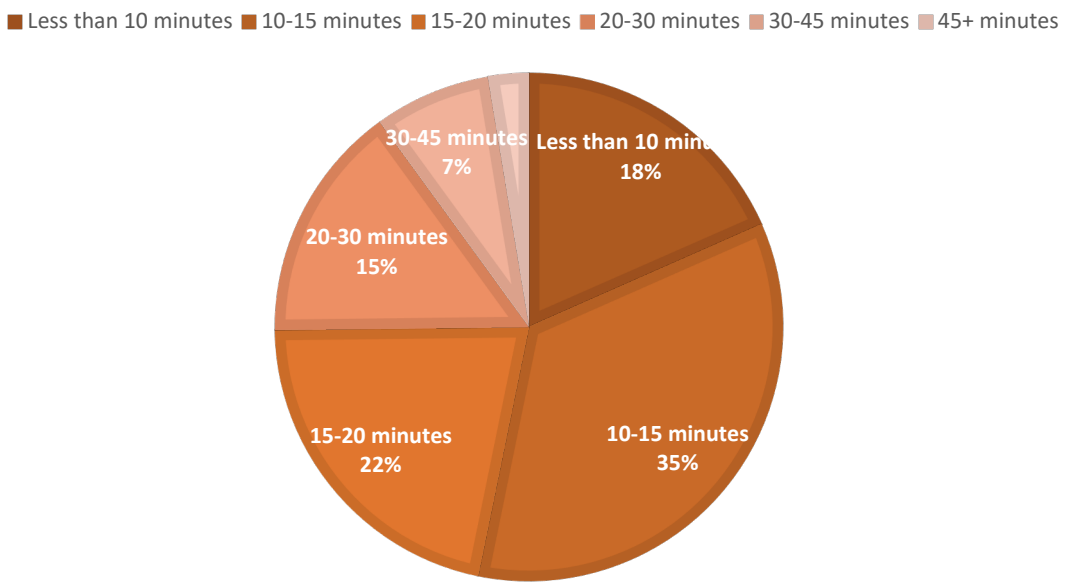
Project TimeLine



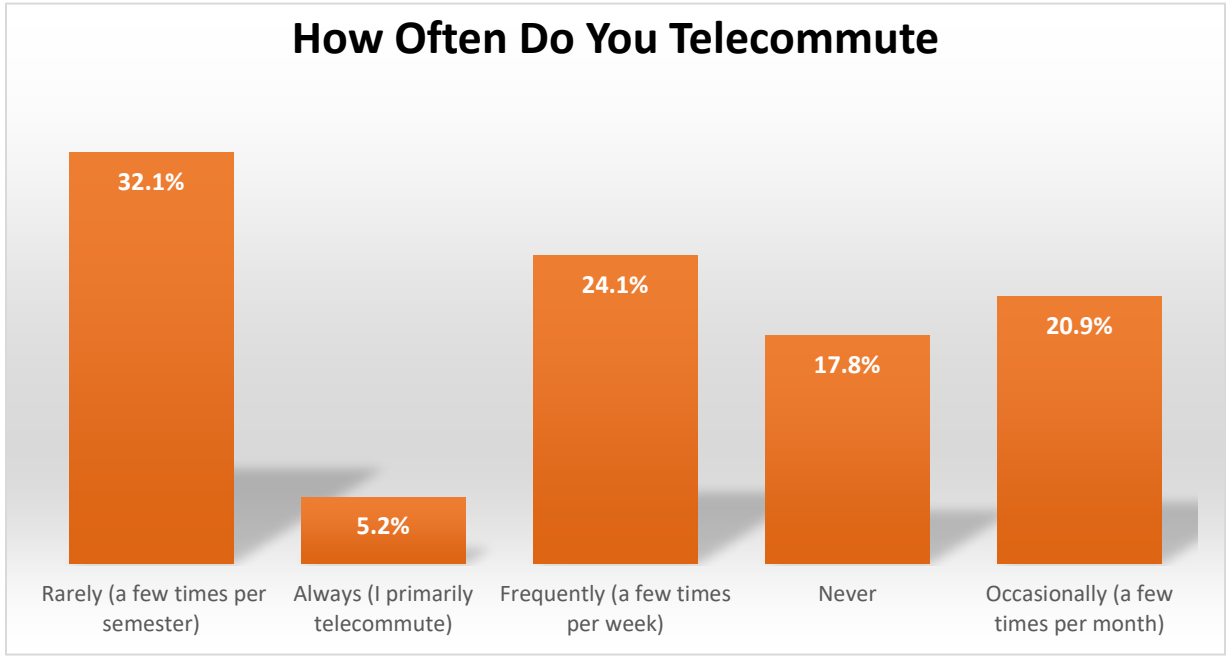
General Information & Initial Analysis

- Total Respondents: Approximately 816
- Roles Represented: Undergraduate students, Graduate students, Faculty, and Staff
- International Participation: Only 6 respondents were located outside the U.S. at the time of submission
- Privacy: No names or emails were collected to ensure respondent anonymity
- Response Time: Completion times ranged from under 5 minutes to over 20 minutes, with an average of approximately 9 minutes
- Peak Participation: A significant majority of responses were submitted on March 3 and March 4

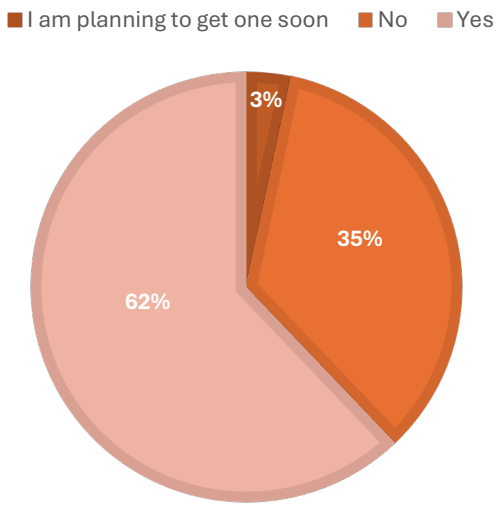
Commuting Time



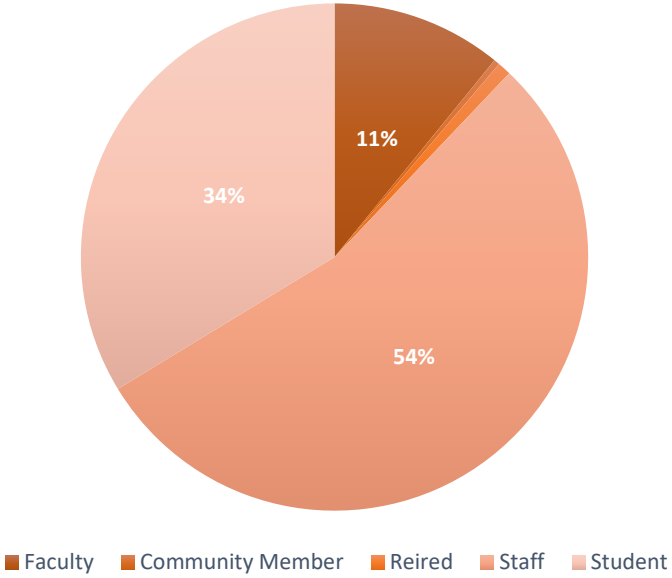
How Often Do You Telecommute



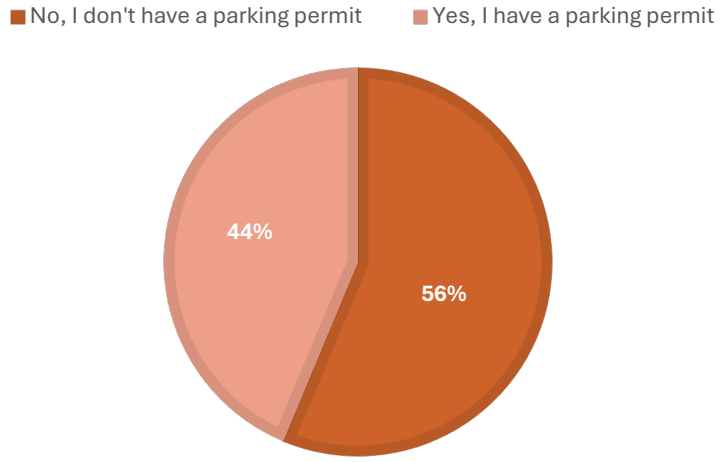
DO YOU OWN A BIKE?



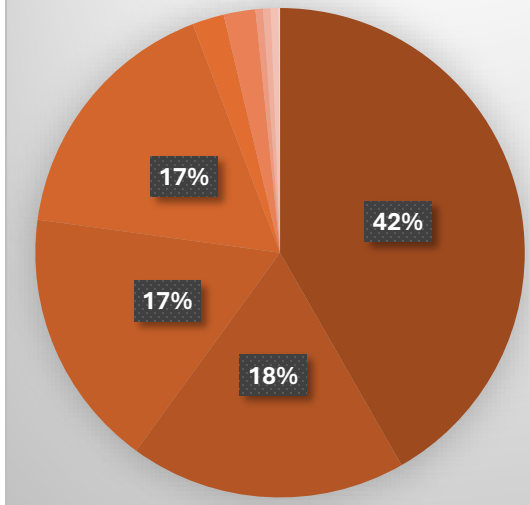
Primary Role on Campus



PARKING PERMIT

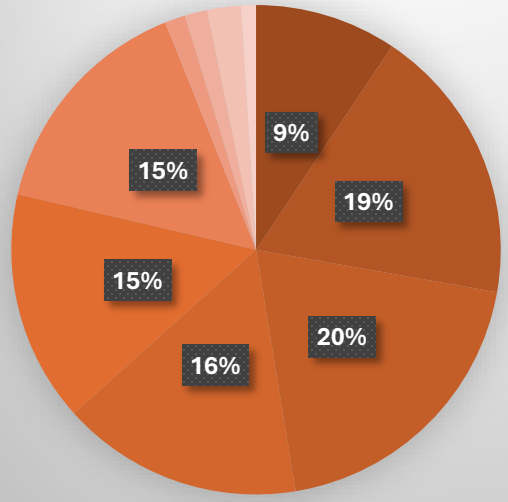


Rank 1



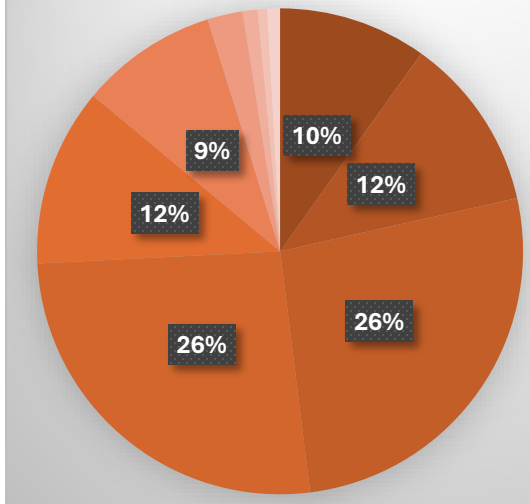
- Drive yourself (arrive/depart alone)
- Personal bicycle
- Bus
- Walk/Roll
- Dropped off by someone who goes off-campus

Rank 3



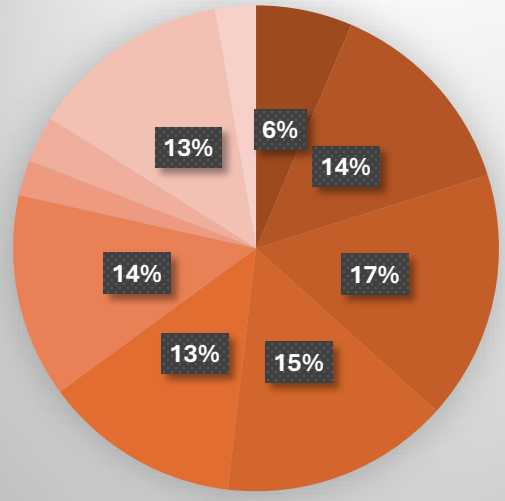
- Drive yourself (arrive/depart alone)
- Personal bicycle
- Bus
- Walk/Roll
- Dropped off by someone who goes off-campus

Rank 2



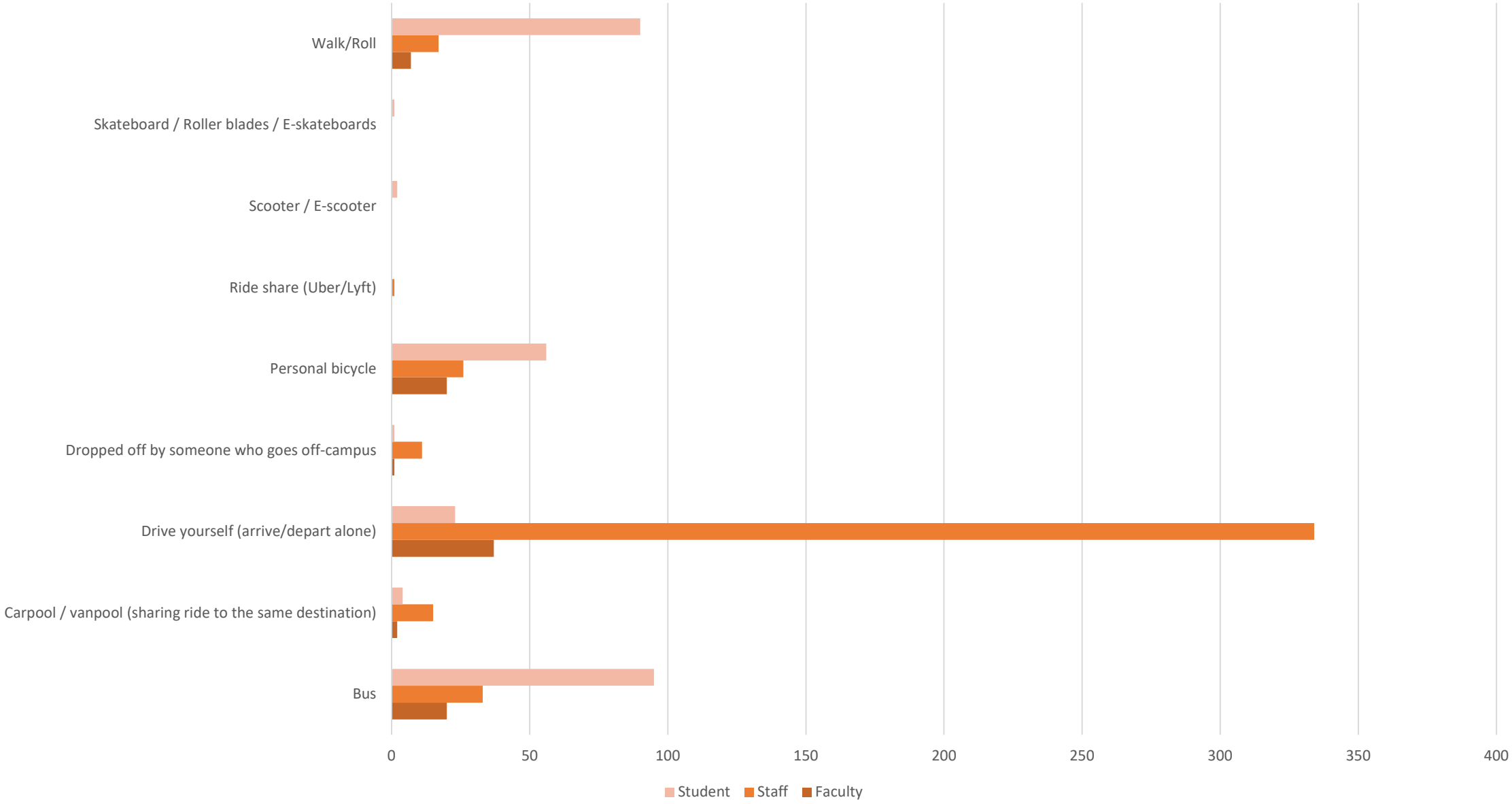
- Drive yourself (arrive/depart alone)
- Personal bicycle
- Bus
- Walk/Roll

Rank 4

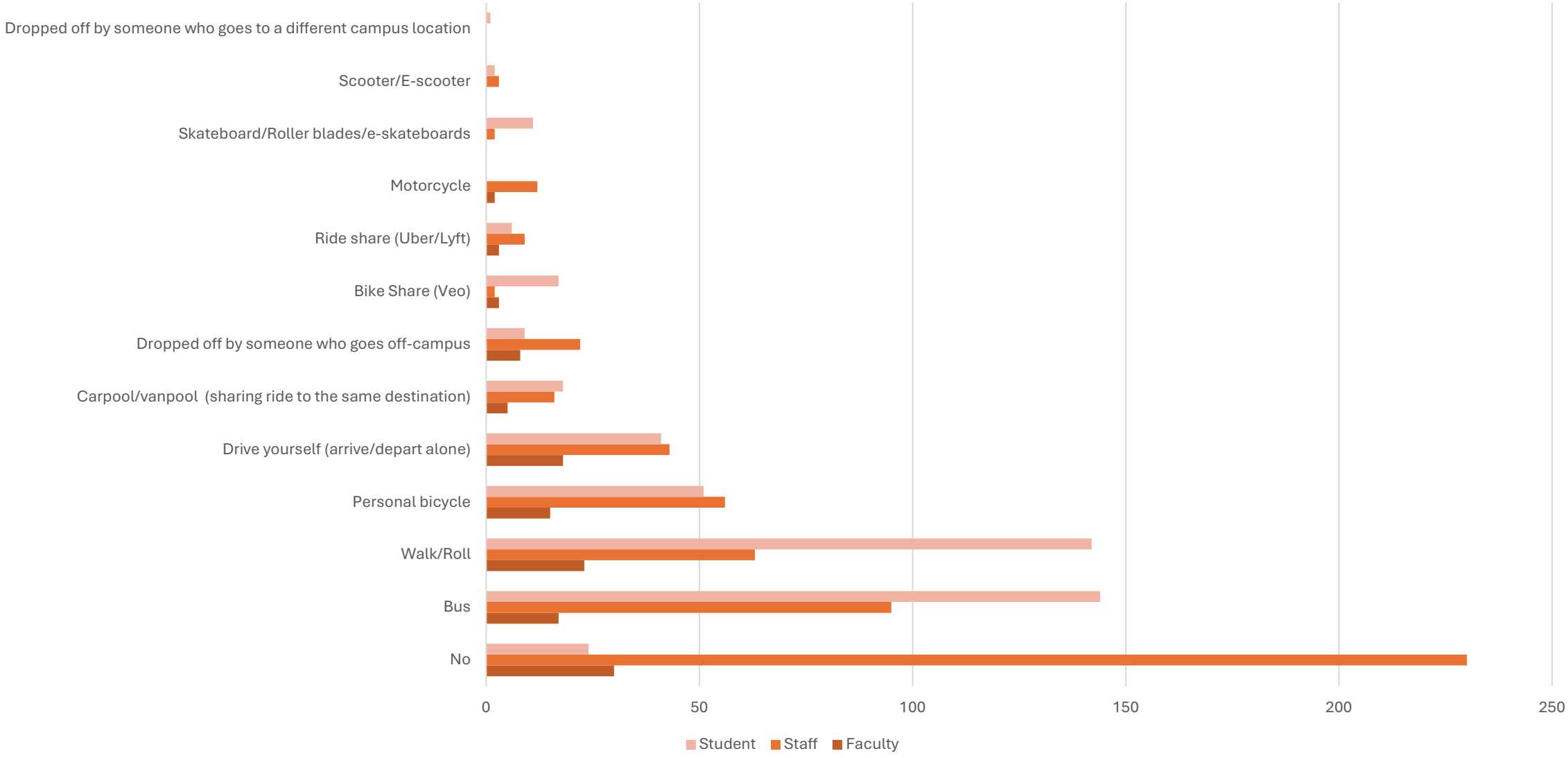


- Drive yourself (arrive/depart alone)
- Personal bicycle
- Bus
- Walk/Roll

Commute Modes By Role

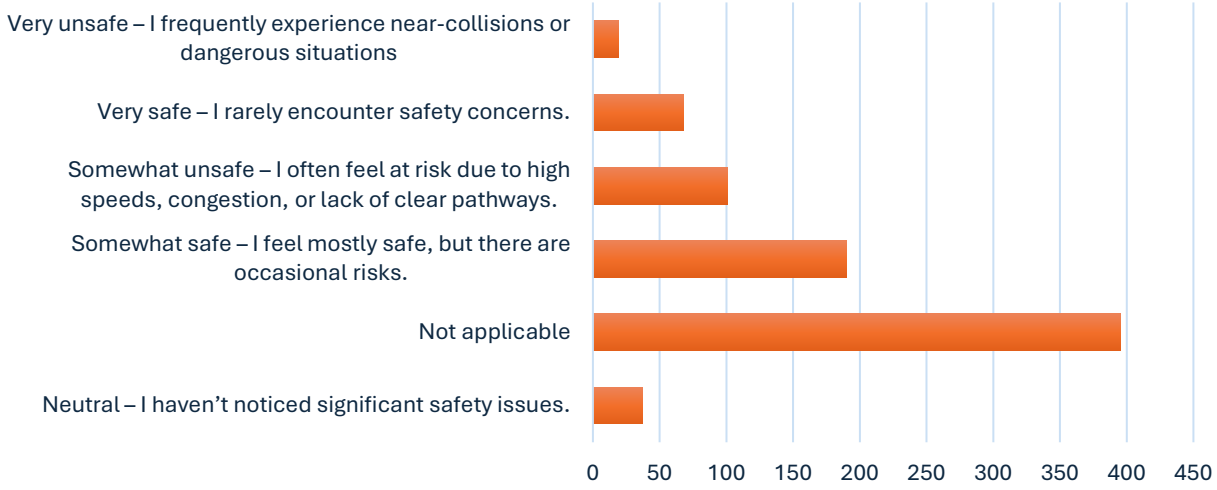


Supplementary Commute Methods by Role

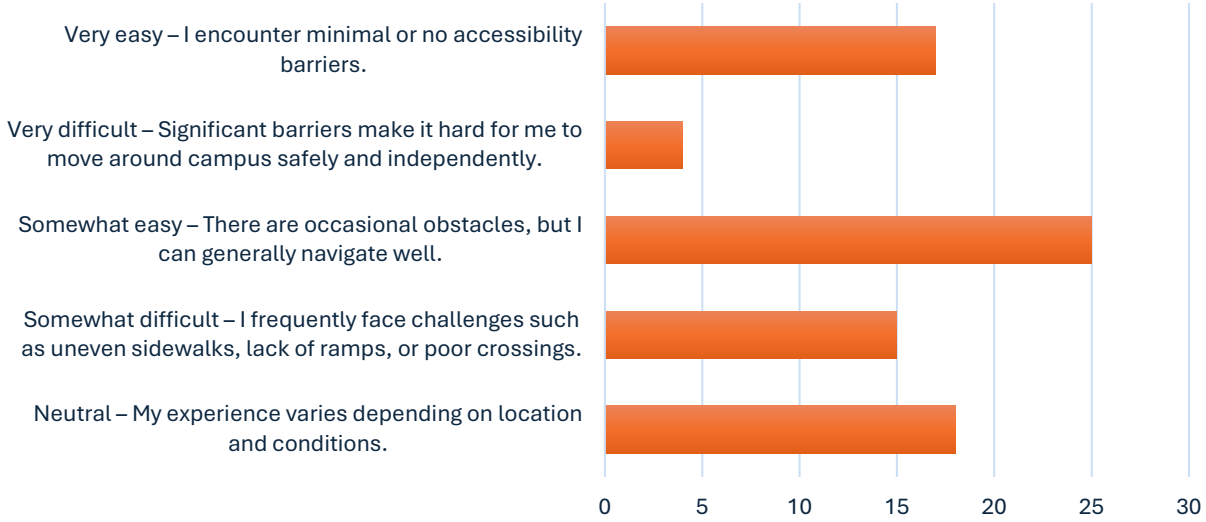


How safe do you feel when navigating campus while walking?

How safe do you feel when navigating campus while riding a bicycle?



How disability affects you navigating the campus



Future Direction of our Analysis

- Identify key predictors of choosing active vs. motorized transportation by using Multivariate Regression
- Thematic analysis of open-ended safety concern responses
- Use ZIP codes to look at access disparities, such as bus service limitations & scoring each area on transportation equity
- Use GIS to map responses by ZIP code, Identify clusters of users lacking MTD service or reporting unsafe conditions
- Predict who would give up their parking permit with the right incentives using Decision Tree
- Publish a predictive behavior change model for sustainable transportation on campuses. Tailor policy interventions and recommendations for campus!

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