Charlottesville Ridership and Stops Analysis

This research investigates the difference in bus ridership between UVAaffiliated and non-UVA-affiliated buses in Charlottesville using data from the City of Charlottesville Open Data portal. Two key questions are addressed: What is the busiest hour for each group, and what are the busiest areas?

Data Type

Stops



The data records the stops buses make.

Location & Date & Time



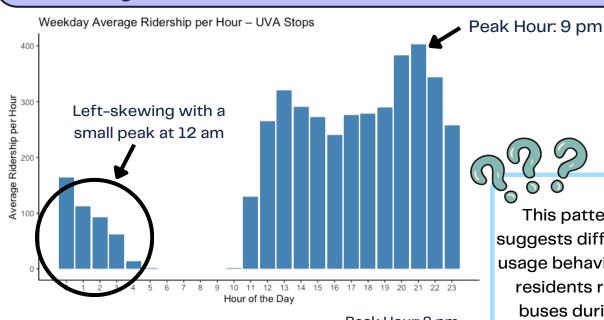
The data provides the locations, dates and time of the stops

Bus Affiliation



The data marks each bus's type as UVA and non-UVA bus.

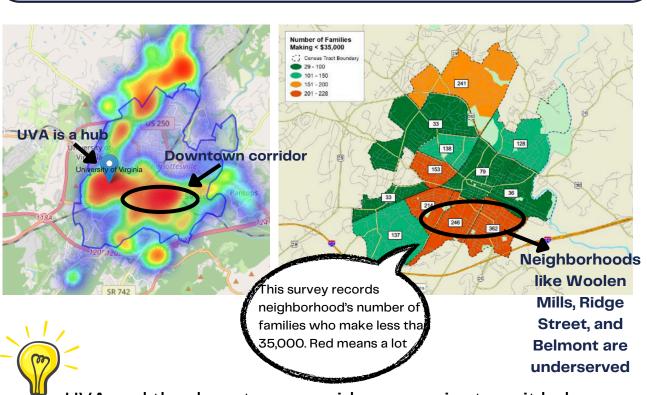
Q1: What's the busiest hour?



Peak Hour: 8 pm Weekday Average Ridership per Hour - Non-UVA Stops Peak Hour: 12 pm A smaller anomaly compared with the υ per Hour UVA data, with average number of ridership Average Ridershi 14 15 16 17

This pattern suggests differing usage behaviorsresidents ride buses during midday, whereas **UVA** students ride more after classes.

Q2: What's the busiest area?



UVA and the downtown corridor are major transit hubs, while low-income communities are underserved.

 There is a disparity in coverage, suggesting that equity in **Dailin Li** transit access remains an issue. **University of Virginia**