## Uber Speeds and Traffic Collisions

Zach Barnes and Bing Wang AM Section

# Zero traffic deaths in San Francisco by 2024

Goal of Vision Zero SF

Fatalities and Severe Injuries in San Franciso 2018

Collisions over 30 MPH and under 30 MPH

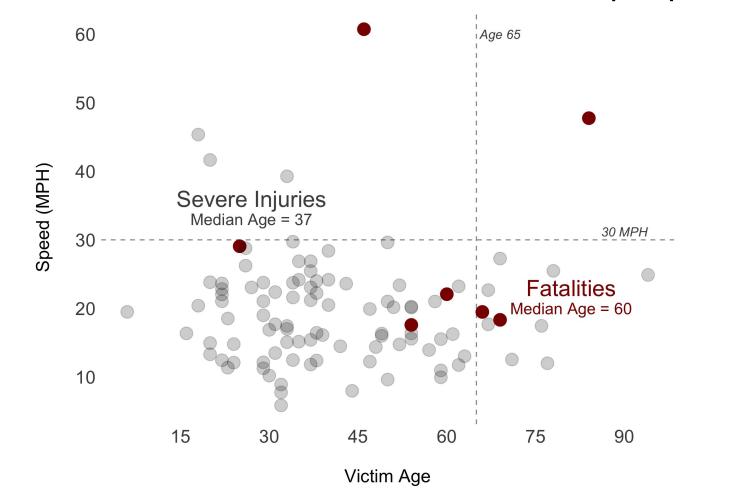


<sup>\*</sup> Speeds from Uber Movement Data

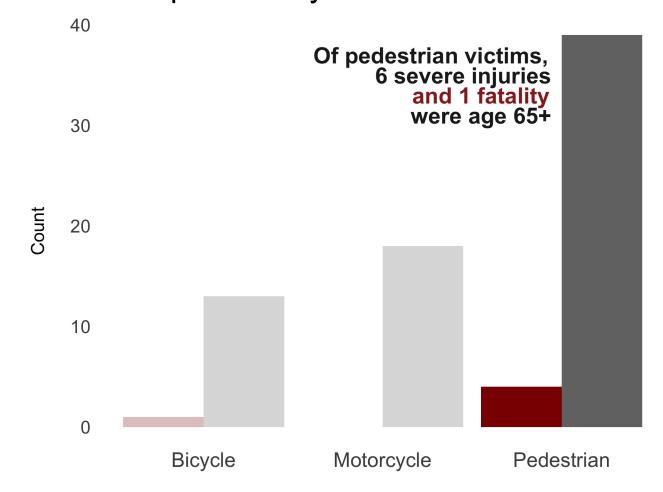


# Higher speed collisions are more fatal

### Traffic collisions are more fatal for older people



#### Pedestrians are particularly vulnerable victims of collisions



### Collisions occur most frequently during rush hour

Wed

Thu

Fri

Sat

12~3 AM	45	25	17	20	17	29	56
4~6 AM	23	25	18	11	20	11	16
7~9 AM	23	86	89	84	71	74	48
10~12 AM	50	78	91	89	96	98	72
1~3 PM	81	99	124	85	90	90	75

Tue

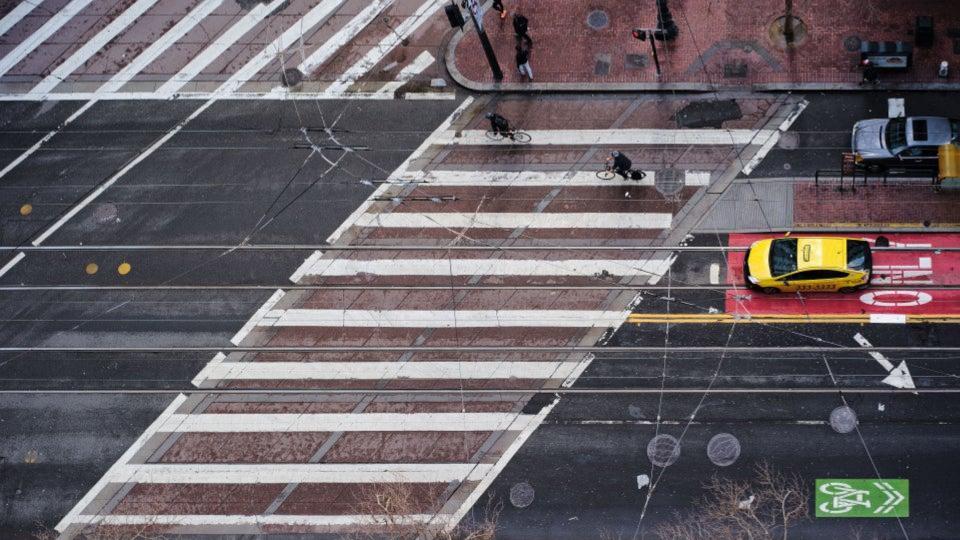
Sun

4~6 PM

7~9 PM

10~12 PM

Mon



#### **Data Sources**

**Transportation Injury Mapping System (TIMS):** 2018 Collisions and Victims data, 3870 rows

**Uber Movements Speeds**: 2018, 21 million rows

**Variables:** Victim Degree of Injury, Speed (MPH), Age, Time of Day, Day of Week, Pedestrian, Bicycle