PEDESTRIAN & BICYCLIST INFLUENCE AT STOP-CONTROLLED INTERSECTIONS

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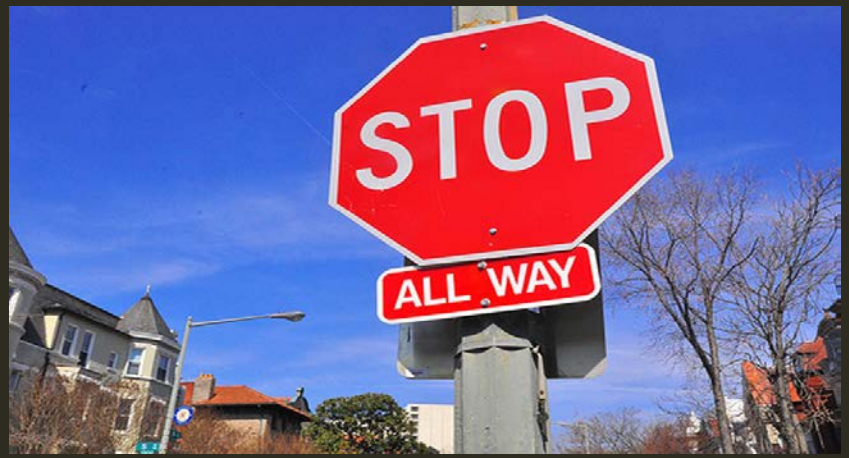
RESEARCH QUESTIONS

How will a pedestrian/cyclist influence a four-way stop controlled intersection if:

- He/She maneuvers the intersection correctly?
- He/She maneuvers the intersection incorrectly?



DATA AND RESEARCH METHODS

Data Collection

- Video footage collected at all intersections

Research Methods

- Some data collected on site
- Other data reduced by video surveillance
- Data collection sheet used

Challenges

- Few ideal intersections in nearby area
- Pedestrian/cyclist patterns hard to predict

KEY FINDINGS

More conflicts occur with pedestrians and cyclists present

- Conflicts increased as traffic volume increased to a certain threshold

Larger intersections have more conflicts than smaller intersections

Taking priority is the most likely violation to result in a conflict

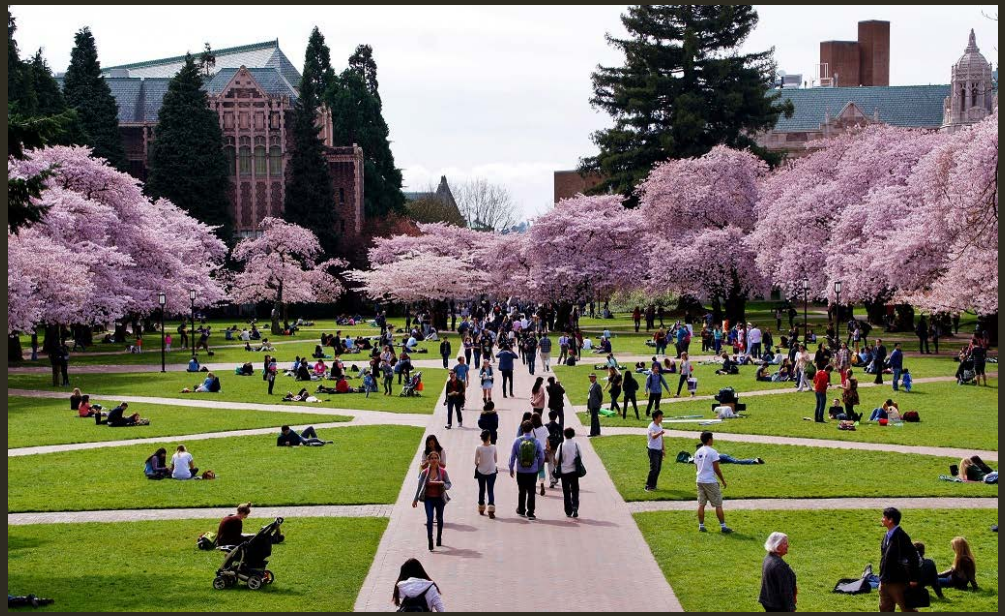
- Second most likely is disobeying the traffic control device

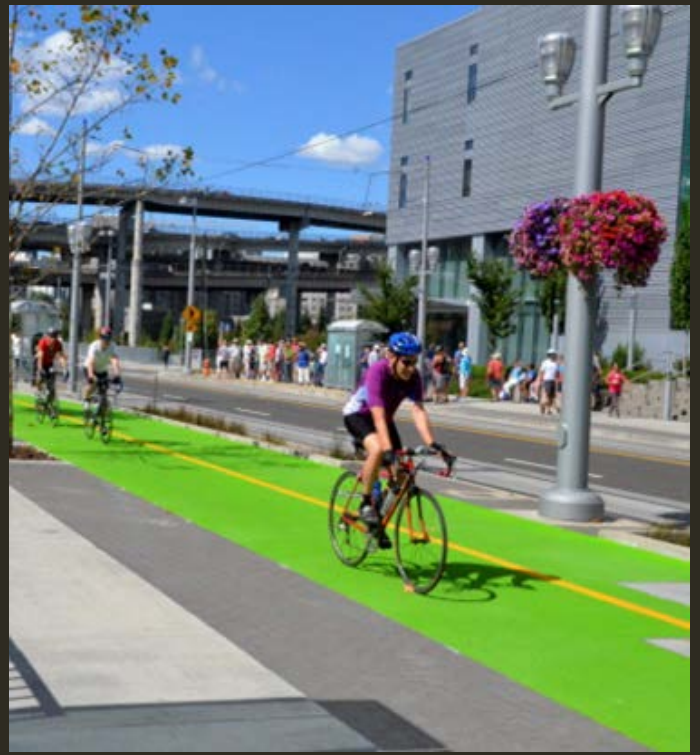
Relationship between crash conflicts and actual crash observed/statistically proved

- T-Bone
- Head-On

FUTURE RESEARCH

Exploring college campuses
Exploring metropolitan areas

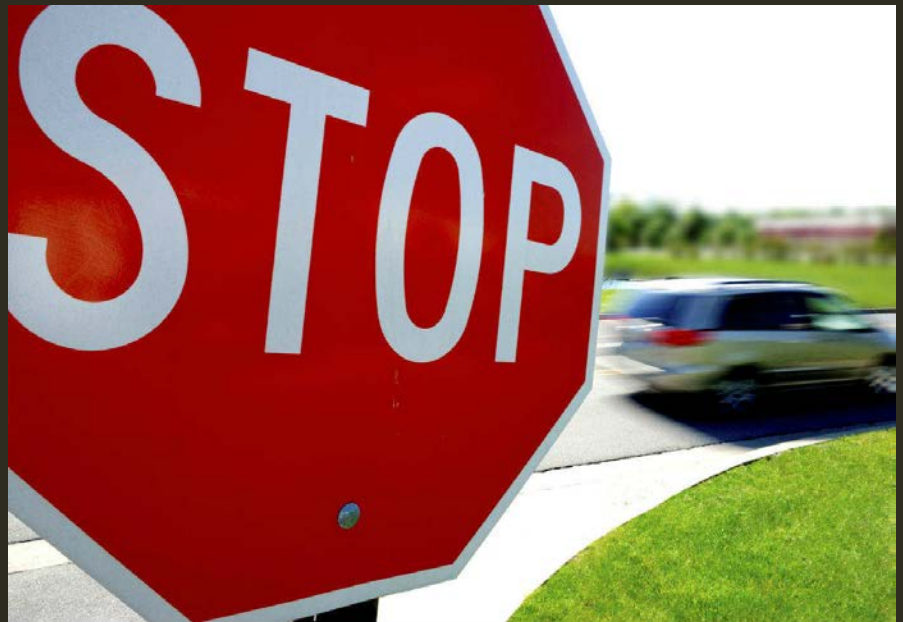




IMPLICATIONS FOR PRACTICE

Education for the public

- Educate drivers, pedestrians and bicyclists on pedestrian/cyclist laws



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