



THE UNIVERSITY OF TEXAS AT AUSTIN  
**CENTER FOR TRANSPORTATION RESEARCH**

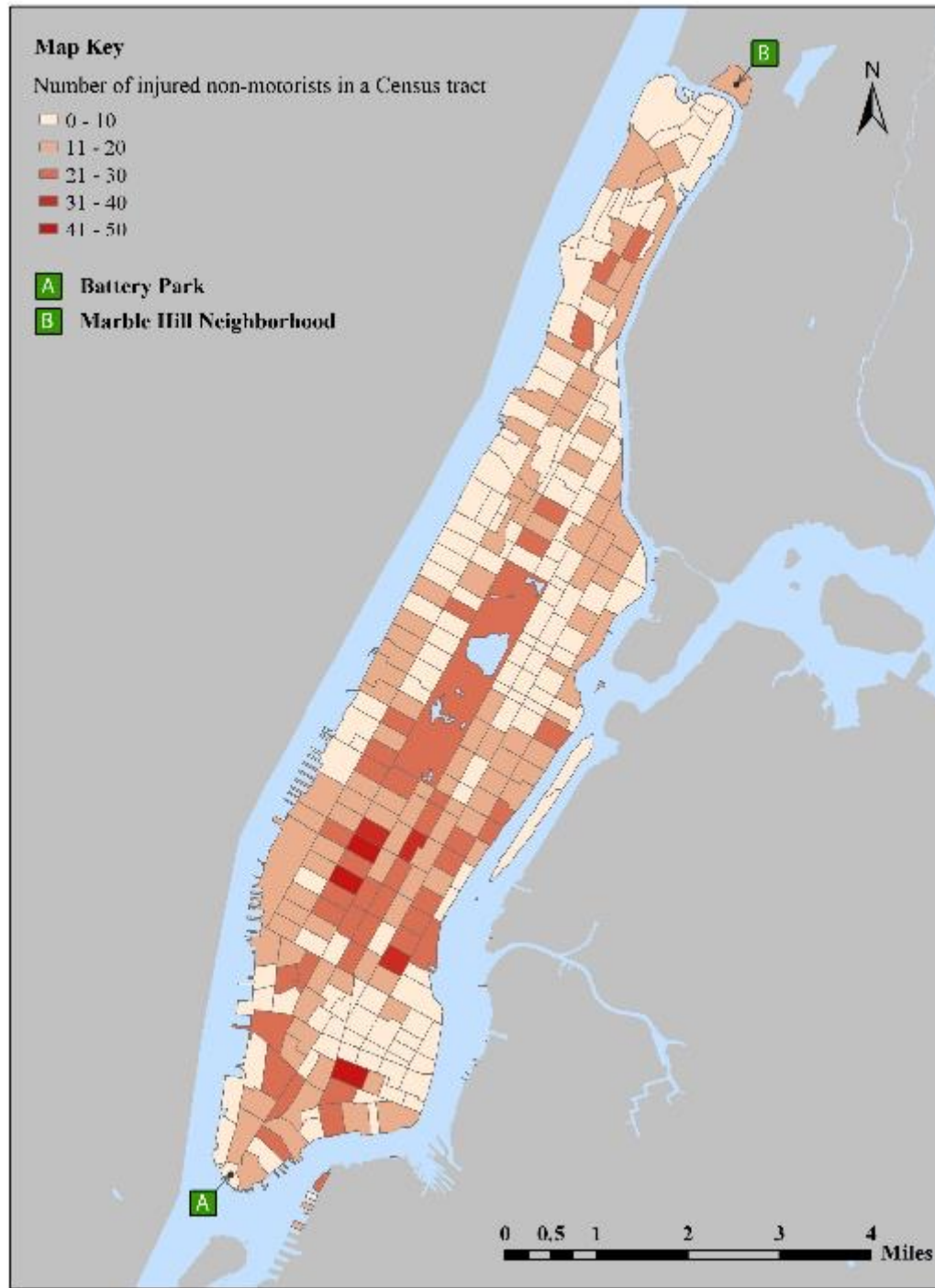
***Safety Research at the***  
**Data-Supported Transportation**  
**Operations and Planning (D-STOP) UTC**

Dr. Jen Duthie  
March 19, 2015

# Crash Prediction

- Spatial multivariate count model to jointly analyze traffic-related counts of pedestrians and bicyclists by injury severity

Source: <http://crashstat.org/>



# Crash Prediction

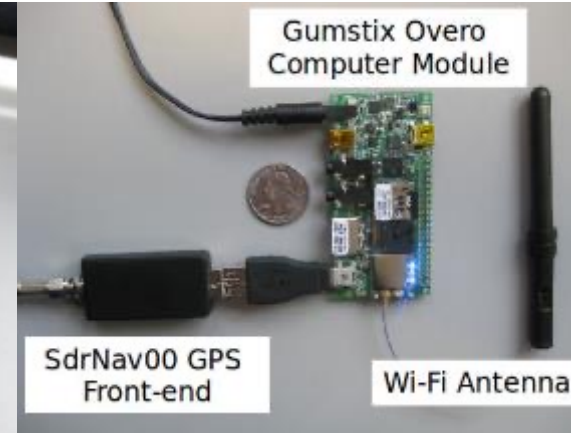
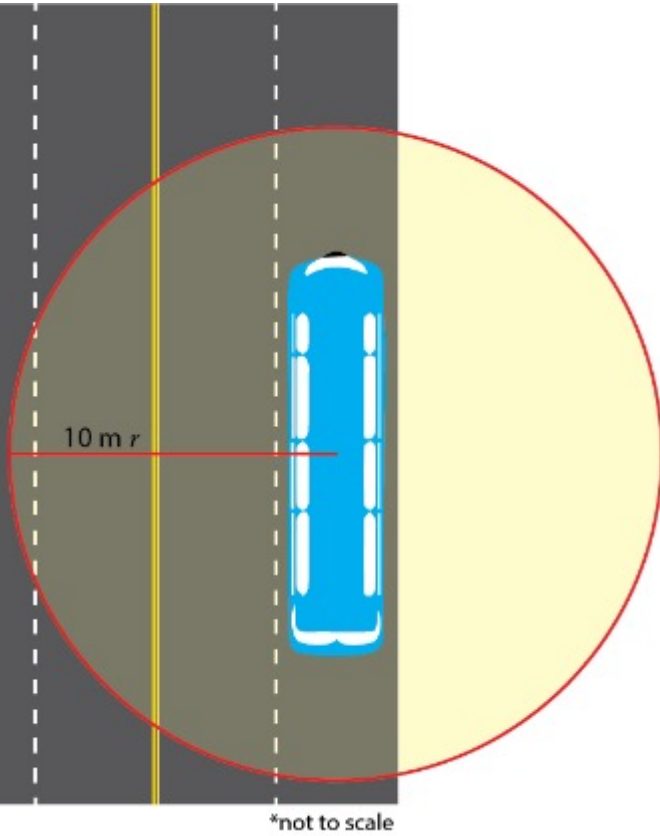
- Predicting crash frequency at urban intersections with a count data model with endogenous covariates



Source: hotpads.com

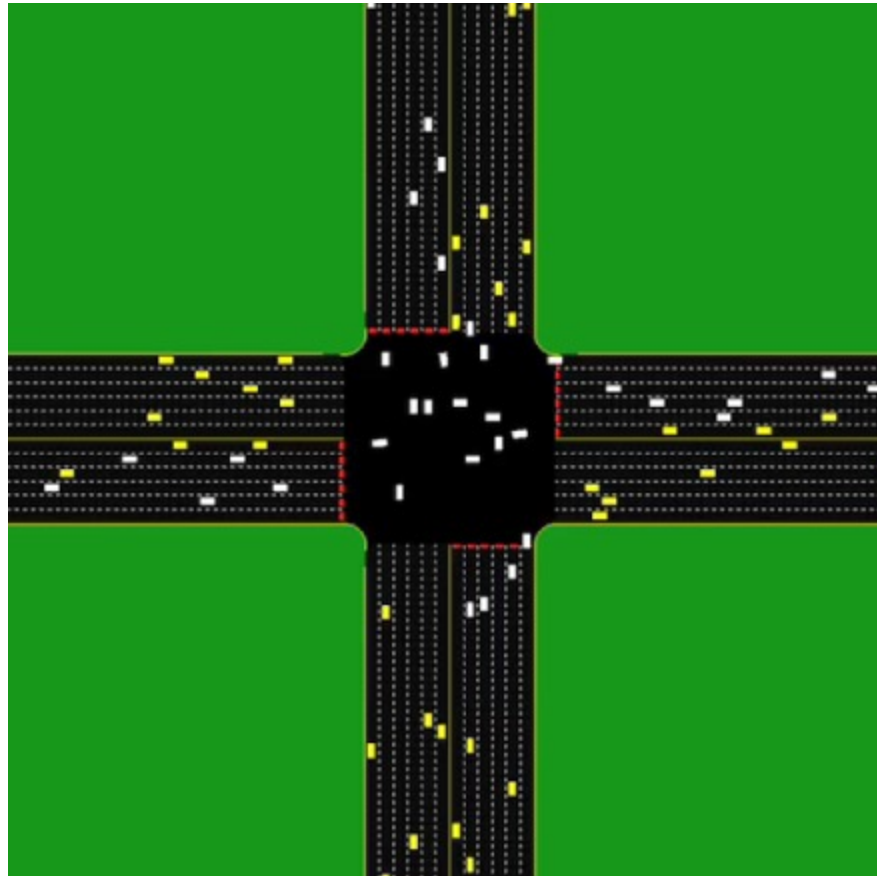


# Vehicle Tracking with Fine-Grained GPS





# Autonomous Vehicle Intersection Modeling



Thank you.

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