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

Dr. Jen Duthie
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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

*not to scale
Autonomous Vehicle Intersection Modeling
Thank you.

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