



THE UNIVERSITY OF  
**CHICAGO**

Department of Statistics  
**MASTER'S THESIS PRESENTATION**

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**Real-Time On/Off-Road GPS Tracking**

**MONDAY, October 15, 2012, at 9:00 AM**  
110 Eckhart Hall, 5734 S. University Avenue

**ABSTRACT**

This document details the construction of a model for tracking a position and velocity state from GPS observations, with the intention of efficient, parallel online-learning of state-dependent parameters. Specifically, the on/off road dynamic linear model of Ulmke and Koch (2006) is adapted to the Particle Learning framework of H. F. Lopes, et. al. (2011).

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