

UTC Project Information	
Project Title	Understanding Truck Parking Behavior and Choice of Commercial Motor Vehicle Operators: Impacts on Roadway Safety
University	Oregon State University
Principal Investigator	Salvador Hernandez
PI Contact Information	sal.hernandez@oregonstate.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$35,000 Oregon State University \$35,000
Total Project Cost	\$70,000
Agency ID or Contract Number	DTRT13-G-UTC40
Start and End Dates	December 16, 2016 – January 31, 2018
Brief Description of Research Project	The research aims to address the issues related to commercial motor vehicles (CMV) parking behavior and choice of US based CMV operators, lack of linkages between survey data and existing crash data and modeling the limitations from previous work through the development and comparison of heterogeneity based methods. This will be accomplished through (1) a comprehensive existing state-of-the-art and state-of-the-practice as it relates to CMV parking behavior and choice and heterogeneity based methods, (2) conduct statistical analyses and mine current data collected from a stated preference survey, and Oregon and Washington crash data to determine potential factors for the heterogeneity based models, and (3) estimate and validate heterogeneity based models using the 2/3rd of data prepared and identified in (2) using advanced econometric software. Once the models have been estimated the stability of the coefficient estimates of the models will be validated using 1/3rd of set aside data. It's envisaged that two journal manuscripts will result from this work.

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>The project report results have led to better understanding truck driver behavior as it relates to fatigue and distracted driving. Factors that have been identified in this study are being utilized by ongoing ODOT SPR810 Study and have contributed to the awarding of an additional ODOT project.</p>
<p>Impacts/Benefits of Implementation (actual, or anticipated)</p>	<p>This has led to the awarding of an additional ODOT project slated to begin in September 2019.</p>
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project Website	