

Project Information Form

Project Title:	Graduate Fellowship Project: Comparison of Electric Vehicle Miles Traveled between Plug-in Hybrid Vehicles and Battery Electric Vehicles
University:	University of California, Davis
Principal Investigator:	Seshadri Srinivasa Raghavan Advisor: Joan Ogden
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Funding Source(s) and Amounts Provided (by each agency or organization):	University of California, Davis, College of Agricultural and Environmental Sciences - \$46,000
Total Project Cost:	\$46,000
Agency ID or Contract Number:	DOT 69A3551747114
Start and End Dates:	October 1, 2017 – September 30, 2018
Brief Description of Research Project:	A survey of contemporary plug-in electric vehicle (PEV) charging infrastructure modeling and planning will be conducted. The objective is to offer insights into PEV infrastructure assessment for future PEV scenarios, like the ZEV mandates. The goal of this study intends to understand the relative share of eVMT between a plug-in hybrid vehicle and a battery electric vehicle. Research will use real world travel data from BMW battery electric vehicles (BEVs) and Range extender plug-in hybrid battery electric vehicles (iREX) to compare the eVMT and utility factor between a plug-in hybrid and battery electric vehicles. Preliminary results indicate that a plug-in hybrid vehicle has higher eVMT share on an annual basis compared to a BEV. The research will also analyze PHEV driving and charging behavior from 1523 Toyota Prius Prime PHEV data. Impacts of daily driving requirements, fuel and energy prices, daily eVMT, and time of ownership of the vehicle on charging behavior will be quantified.
Describe Implementation of Research Outcomes (or why not implemented): Place any photos here	
Impacts/Benefits of Implementation (actual, not anticipated):	



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<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project website	<p>https://ncst.ucdavis.edu/graduate-student-research/</p>
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