

UTC Project Information	
Project Title	Enhancing Safety and Accessibility for Active Users at Signalized Intersections under the Signal Phasing and Timing (SPaT) Challenge
University	University of Washington
Principal Investigator	Yinhai Wang
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Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$40,000 Washington State Department of Transportation \$40,000
Total Project Cost	\$ 80,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	March 16, 2021- Sept 15, 2022
Brief Description of Research Project	<p>The objective of this project is to enhance both safety and accessibility for non-motorized road users (henceforth referred to as active users) at signalized intersections in urban areas, primarily Seattle at first, but with plans to extend throughout the region later.</p> <p>In essence, an approach to facilitate user movements at signalized intersections using video/sensing technology inputs will be developed in order to:</p> <ul style="list-style-type: none"> (1) detect active users waiting to cross a roadway and actuate the signal for them (2) detect any active users crossing the roadway, alerting drivers of active users' presence via an alert in a mobile application (app), and potentially extending the crossing phase for them as needed/possible. <p>For this project, the team will make use of sensing technology developed in the PI's lab, notably the Mobile Unit for Sensing Traffic (MUST sensor), as well as previous app development experience.</p>

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	
<p>Impacts/Benefits of Implementation (actual, or anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project Website	