

UTC Project Information	
Project Title	Demand Inference for Free-Floating Micro-Mobility: Accessibility and Availability
University	University of Washington
Principal Investigator	Chiwei Yan
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Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$40,000 University of Washington \$40,000
Total Project Cost	\$80,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	Jan 1, 2022- June 30, 2023
Brief Description of Research Project	<p>The city of Seattle, Portland, and other major US cities have been seeing an increasing amount of deployment and usage of micro-mobility fleets such as electric bikes and scooters. These services quickly gain popularity by providing convenient, cost-effective, and emission-free mobility options to riders.</p> <p>This project develops novel statistical and data analytics methods to infer underlying demand for such services, using only observed trip and vehicle availability data. Its focus is on the more recent (and more popular) free-floating or dock-less services. In short, the methods developed in the proposed project enable municipal agencies and fleet operators to accurately answer the following questions, using data collected from day-to-day operations, such as trip counts and vehicle locations:</p> <ul style="list-style-type: none"> * How many riders would be interested in using the service at each geographic location in the service area if there were always vehicles available within proximity; and *How many of them get served (availability) and how good is the service quality (accessibility) --- distance a rider must travel to find an available vehicle?

<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	