

UTC Project Information	
Project Title	MPC-677 – Understanding Paratransit: Examining Time Inefficiencies and the Efficacy of Alternative Modes for Persons with Disability
University	University of Colorado Denver
Principal Investigator	Manish Shirgaokar Aditi Misra Wesley Marshall
PI Contact Information	<p>Manish Shirgaokar Assistant Professor Dept. of Urban & Regional Planning University of Colorado Denver Phone: (303) 315-0336 Email: manish.shirgaokar@ucdenver.edu ORCID: 0000-0001-6458-1885</p> <p>Aditi Misra Assistant Professor Dept. of Civil Engineering University of Colorado Denver Phone: (303) 315-7170 Email: aditi.misra@ucdenver.edu ORCID: 0000-0002-5600-5973</p> <p>Wesley Marshall Professor Dept. of Civil Engineering University of Colorado Denver Phone: (303) 315-7568 Email: wesley.marshall@ucdenver.edu ORCID: 0000-0002-3106-7342</p>
Funding Source(s) and Amounts Provided (by each agency or organization)	<p>USDOT, Office of the Assistant Secretary for Research and Technology \$100,000</p> <p>University of Colorado Denver \$100,000</p>
Total Project Cost	\$200,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	November 12, 2021 to July 1, 2023
Brief Description of Research Project	Under MPC-677, we assembled a unique database of paratransit demand in the Denver Region from primary data provided to us by the transit agency for the region (Regional Transportation District or RTD). This database has information on origins and destinations for trips over 2.5 years (2019/01 – 2021/06). Further, weather and land use data have been attached to this dataset.

	<p>Given the gaps in knowledge about paratransit (in)efficiency, request for extension and added funding is centered on extracting deeper insights from this dataset. The intent is to construct tours out of the existing data. We then plan to estimate tour-level travel time differences between paratransit and comparable auto travel. By constructing a trip frequency model at the TAZ level, we will also estimate spatial impacts. This work will include a form of payment analysis where we examine differences between patrons benefiting from deep subsidies versus customers paying out of pocket. Lastly, we will explore the challenges government agencies face, in relation to the Americans with Disabilities Act, when providing requisite infrastructure to support travel by disabled persons.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>Wrapping up first phase of this project by showing how socio-demographic groups, particularly males versus females, experience different travel time inefficiency on paratransit. We compare paratransit travel time, from actual trip runs in the Denver region, with counterfactual trips using automobile.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project Website 	