

## UC ITS Researchers Registered for CTA Webinar – Shared Mobility, Automation, and Transit's Role - July 20, 2017

Name	Title	Campus	Email	Research Interests and Examples of Current or Proposed Research Projects
Eduardo C. Serafin	Technical Program Manager	UC Berkeley	eduardo.serafin@berkeley.edu	Developing a "California Transit Academy" or other related training/professional development programs, which could entail: 1) Transit fundamentals (e.g. Transit 101) for CA legislators 2) Transit certificate program for practitioners 3) Transit workshops either before or after CTA's annual fall conference 4) Specialized technical sessions for CTA's annual fall conference
Adam Cohen	Research Associate	UC Berkeley	apcohen@berkeley.edu	Research interests: shared mobility and emerging technologies, city and regional planning and international affairs. Current projects include: Planning Advisory Service Report 583 Planning for Shared Mobility, the first-ever shared mobility guide for urban planners (Released Fall 2016); Smartphone Applications to Influence Travel Choices: Practices and Policies (Released Fall 2016); on evaluation team for the Federal Transit Administration's Mobility on Demand Sandbox (Ongoing/Schedule Completion 2019); global benchmarking studies on shared mobility services, (Ongoing/No End Date); projects related to shared mobility and modal shift impacts driven by transportation technologies, traveler information, and sustainable mobility systems (Ongoing/No End Date); and tracking industry developments in the rapidly evolving shared mobility space (Ongoing/No End Date).
Elliot Martin	Assistant Research Engineer	UC Berkeley	elliott@berkeley.edu	Research interests: impacts of shared mobility and transit systems. Currently evaluating MOD Sandbox FTA sponsored projects, many of which integrate shared mobility services in support of public transit operations.
Max Shen	Professor	UC Berkeley	maxshen@berkeley.edu	Research interests include shared mobility, transportation network optimization, car sharing systems planning and optimization, and policies on rider-sharing.
Joan Walker*	Professor	UC Berkeley	joanwalker@berkeley.edu	Research interests: behavioral modeling, with an expertise in discrete choice analysis and travel behavior.
Giovanni Circella*	Assistant Professional Researcher	UC Davis	gcircella@ucdavis.edu	Research interests: travel behavior analysis, transportation planning, travel demand modeling, land use planning and modeling, travel survey methods, transportation sustainability, and policy analysis. Recent research activity has focused on the impact of personal attitudes and preferences on travel choices, the relationships between land use and travel behavior, the impact of information and telecommunication technology (ICT) on mobility patterns, the adoption of shared mobility and other emerging trends in transportation, and the mobility of specific segments of the population, e.g. young adults ("millennials").
Yueyue Fan	Professor	UC Davis	yyfan@ucdavis.edu	Research interests: Applied mathematics and computation focusing on transportation and energy systems modeling and optimization, network modeling, resilient infrastructure system planning, and acquisition and identification of networked data. Current projects: Designing an integrative systems approach to evaluate the feasibility of using shared mobility service to relax the conventional service coverage requirement of a transit system, so that transit system resources can be reallocated more efficiently.

\*Speaker

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Miguel Jaller	Assistant Professor	UC Davis	mjaller@ucdavis.edu	Current projects include: shared mobility in first/last mile transit access programs with a focus on impacts on travel demand, energy and emissions; and estimating activity and health impacts of first and last mile transit access programs for work and shopping trips using shared mobility services in a metropolitan area. Both of projects combine travel demand modeling with mathematical optimization to explicitly model the use of shared mobility providers for the first and last mile transit access process with a focus on the San Francisco Metro Area.
Alan Jenn	Postdoctoral Researcher	UC Davis	ajenn@ucdavis.edu	Research interests: Relationship between electrification and new mobility services, implementation challenges and policy development
Caroline Rodier	Research Scientist	UC Davis	cjrodier@ucdavis.edu	Research interests: Design and evaluation of new shared use mobility systems, including modeling dynamic ridesharing services and automated vehicle scenarios and designing shared use pilot projects in rural, disadvantaged communities. Current research projects include two white papers: 1) environmental effects of shared mobility and 2) environmental effects of autonomous vehicles; identifying shared-used mobility alternatives to transit in rural communities in the San Joaquin Valley; first and last mile with automated vehicle shuttle and ridesourcing using existing modeling tools and data; and simulation of ridesourcing using agent-based demand and supply regional models.
Michael Zhang	Professor	UC Davis	hmzhang@ucdavis.edu	Research interests: Use connected vehicles and automation technology to enhance data collection, route planning, and operational control. Current projects include, signal priority for transit vehicles using DSRC/WAVE communication: funded by National Science Foundation, which entails development of the DSRC/WAVE enabled transit signal priority and detect stop/in-vehicle passenger load using smart phones and wearables. Planned research: demand estimation, fuel saving vehicle operation strategies, platooning automated buses for flexible bus rapid transit.
Michael G McNally	Professor	UC Irvine	mmcnally@uci.edu	Research interests: all aspects of transportation planning, forecasting, and technology. Current member of the OCTA Citizen Advisory Committee. Developing a proposal for an app-based travel survey that explicitly targets travel and activity scheduling (not just outcome) that would gather continuous data for all modes.
R. Jayakrishnan	Professor	UC Irvine	rjayakri@uci.edu	Research Interests: Long-time research interest in shared ride systems. Developed perhaps the first such systems, called High-Coverage Point to Point Transit (HCPPT) and have current research over 3 years on combining ride-sharing with transit, car-share, bike-share, etc. Current projects include: Promoting Peer-to-Peer Ridesharing Services as Transit System Feeders; Designing a Transit-Feeder System Using Bikesharing and Peer-to-Peer Ridesharing; and Analysis of Comprehensive Multi-modal Shared Travel Systems with Transit, Rideshare, Carshare and Bikeshare Options. These three projects are in sequence, and have developed complete ride-matching algorithms and real-time computational schemes for shared travel across modes, and the associated smartphone apps for trip-planning. The case studies involve the LA area and the LA Metro transit system. Possibilities in autonomous modes are also examined.

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Jiangbo Gabriel Yu	Graduate Student Researcher	UC Irvine	jiangby@uci.edu	Research Interests: uncertainty; information and communication in transportation systems. Current research includes promoting peer-to-peer ridesharing services as transit system feeders; cognition-based agent modeling, traveler information quantification, and dynamic traffic assignment under heterogeneous risk preference.
Farzana Khatun	Ph.D. Student	UC Irvine	fkhatun@uci.edu	Research interests: public transit, GIS and travel behavior. Current projects include immigrant's travel behavior, OCTA public transit system.
Navjyoth Sarma (Nav)	Graduate Student	UC Irvine	jayashan@uci.edu	Research Interests: scheduling, transit integration, first-and-last-mile connectivity, and dynamic transit operations/planning. Masters thesis looks at developing a system level quality of service measure for transit that evaluates network level availability of transit during the peak and off-peak hours. This measure is an indicator of the potential of a person living in a particular community to give up his personal vehicle and take transit to his destination at a given time. I would like to base my PhD proposal in the domain of transit-micro-transit integration and schedule synchronization domain.
Wenlong Jin	Associate Professor	UC Irvine	wjin@uci.edu	Research Interests: cloud transporting as a model for enabling ubiquitous, convenient, on-demand access to a shared pool of configurable transporting resources
Jerry Tao	Graduate Student	UC Irvine	jjaruit@uci.edu	Research Interests: Cooperation, coordination, and connection between transit agencies and TNCs in hub selection, route planning, pricing policy, and revenue sharing. Current projects: (1) Designed an experiment to test impacts of public transit information display on commuters' behavior and attitudes; (2) studied subway users' satisfaction determinants; and (3) examined university employees' commute patterns.
Youngeun Bae	Ph.D. Student	UC Irvine	youngeub@uci.edu	Research Interests: 1) Risk and safety of autonomous transit buses (what standards and evaluations should be applied to autonomous buses to ensure safety concerns?) 2) Demand responsive transit system using autonomous buses (how to design this system that contributes to equitable mobility, particularly for people with disabilities or those in low-density areas?)
Michael Manville	Assistant Professor	UCLA	mmanvill@ucla.edu	Research Interests: relationships between transportation and land use, and on local public finance
Juan Matute	Associate Director	UCLA	jmatute@ucla.edu	Project manager for the Statewide Transit Strategic Plan, which considers TNC substitution for and integration with transit. The Statewide Transit Strategic Plan will be published by February 2018. More information is available at <a href="http://www.dot.ca.gov/drmt/spstsp.html">http://www.dot.ca.gov/drmt/spstsp.html</a> . Also have ongoing research project which considers transit-TNC integration in Los Angeles.