Carole Turley Voulgaris

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Education

*University of California, Los Angeles*Los Angeles, California

Doctor of Philosophy, Urban Planning 2012 – 2017

*University of Notre Dame* Notre Dame, Indiana

Master of Business Administration, Finance concentration, Magna cum laude 2010 – 2012

*Brigham Young University* Provo, Utah

Master of Science, Civil Engineering 2006 - 2007

*Brigham Young University* Provo, Utah

Bachelor of Science, Civil Engineering 2000 – 2006

Employment

*Harvard Graduate School of Design* 2019-present

Assistant Professor, Department of Urban Planning and Design Cambridge, Massachusetts

*California Polytechnic State University* 2018-2019

Assistant Professor, Department of Civil and Environmental Engineering San Luis Obispo, California

*Transpo Group* 2007-2010

Transportation Engineer Kirkland, Washington

*Utah Transit Authority* 2006-2007

Capital Development Intern Salt Lake City, Utah

Research

*Under review*

Braun, L. M., H.T.K. Le, **C.T. Voulgaris** & R.C. Nethery. 2022. Who benefits from shifting metal to pedal? An equity-oriented health impact assessment for analyzing the health tradeoffs of cycling.(Revise and resubmit in progress)

Macfarlane, G.S., **C.T. Voulgaris** & T. Tapia. 2022. If you build it who will come? Equity analysis of park system changes using passive origin-destination data. (Revise and resubmit in progress)

*Refereed Journal Articles*

Braun, L. M., H.T.K. Le, **C.T. Voulgaris** & R.C. Nethery. 2021. Healthy for whom? Equity in the spatial distribution of cycling risks in Los Angeles, CA. *Journal of Transport and Health, 23.* DOI: 10.1016/j.jth.2021.101227

Darling, W., E. Carpenter, T. Johnson-Praino, C. Brakewood & **C.T. Voulgaris**. 2021. A comparison of reduced-fare programs for low-income transit riders. *Transportation Research Record: Journal of the Transportation Research Board.* DOI: 10.1177/03611981211017900

**Voulgaris, C.T.**, R. Hosseinzade, A. Pande & S. Alexander. 2021. Neighborhood effects of Safe Routes to School programs on the likelihood of active travel to school. *Transportation Research Record: Journal of the Transportation Research Board.* DOI: 10.1177/0361198121995490

**Voulgaris, C.T.** 2020. What is a forecast for? Motivations for transit ridership forecast accuracy in the federal New Starts program. *Journal of the American Planning Association, 86*(4), 458-469DOI: 10.1080/01944363.2020.1746191

**Voulgaris, C.T.** 2020. Trust in Forecasts? Correlates with ridership forecast accuracy for fixed-guideway transit projects. *Transportation, 47,* 2439-2477*.* DOI: 10.1007/s11116-019-10024-8

Panik, R.T., E. Morris, & **C.T. Voulgaris.** 2019. Does walking and bicycling more mean exercising less? Evidence from the U.S. and the Netherlands. *Journal of Transport & Health, 15.* DOI: 10.1016/j.jth.2019.100590

Shinn, J.E., & **C.T. Voulgaris.** 2019. Ridership Ramp-up? Initial ridership variation on new rail transit projects. *Transportation Research Record: Journal of the Transportation Research Board.* DOI: 10.1177/0361198119844462

Blumenberg, E., A.E. Brown, K.M. Ralph, B.D. Taylor, & **C.T. Voulgaris.** 2019. A resurgence in urban living? Trends in residential location patterns of young and older adults since 2000. *Urban Geography*. DOI: 10.1080/02723638.2019.1597594

**Voulgaris, C.T.** 2019. Crystal Balls and Black Boxes: What makes a good forecast? *Journal of Planning Literature, 34*(3)*,* 286-299*.* DOI: 10.1177/0885412219838495

**Voulgaris, C. T.**, Smart, M. J., & Taylor, B. D. 2019. Tired of Commuting? Relationships among Journeys to School, Sleep, and Exercise among American Teenagers. *Journal of Planning Education and Research, 39*(2) 142-154, DOI: 10.1177/0739456X17725148.

Ralph, K.M., **C.T. Voulgaris**, & A.E. Brown.2017. Travel and the Built Environment: Insights using Activity Densities, the Sprawl Index, and Neighborhood Types. *Transportation Research Record: Journal of the Transportation Research Board,* 2653, 1-9, DOI: 10.3141/2653-01

Ralph, K.M.**, C.T. Voulgaris**, B.D. Taylor, E. Blumenberg, & A.E. Brown. 2017. Millennials, built form, and travel: Insights from a nationwide typology of U.S. neighborhoods. *Journal of Transport Geography.* *57*, 218-226, DOI: 10.1016/j.jtrangeo.2016.10.007

**Voulgaris, C.T.**, B.D. Taylor, E. Blumenberg, A.E. Brown, & K. Ralph. 2017. Synergistic neighborhood relationships with travel behavior: An analysis of travel in 30,000 US neighborhoods. *Journal of Transportation and Land Use,* *10*(1), 437-461, DOI: 10.5198/jtlu.2016.840

**Voulgaris, C.T.** 2016. A TUF Sell: Transportation Utility Fees as User Fees for Local Roads and Streets. *Journal of Public Works Management and Policy, 21*(4)*,* 305-323*.* DOI: 10.1177/1087724X16629961

Brown, A., E. Blumenberg, B.D. Taylor, K. Ralph, & **C.T. Voulgaris.** 2016. A Taste for Transit? Analyzing Public Transit Trends among Youth. *Journal of Public Transportation, 19*(1), 49-67. DOI: 10.5038/2375-0901.19.1.4

**Voulgaris, C.T.**, A. Loukaitou-Sideris & B.D. Taylor. 2015. Planning for Pedestrian Flows in Rail Rapid Transit Stations: Lessons from the State of Current Knowledge and Practice. *Journal of Public Transportation, 18*(3), 1-14. DOI: 10.5038%2F2375-0901.18.3.1

*Conference Presentations*

**Voulgaris, C.T.**, G. Macfarlane, J. Kaylor, T. Su & A. Bauranov. 2021. Whose Emissions Are These Anyway? Estimating Vehicle Miles Traveled to Account For Site-Level Transportation Impacts on Climate Change. *61st Annual Association of Collegiate Schools of Planning Conference.* Online.

**Voulgaris, C.T.**, & S. Littlefield. 2021. Working from home or taking work home? Travel effects of the option to work from home. *100th Annual Meeting of the Transportation Research Board.* Online.

**Voulgaris, C.T.**, R. Hosseinzade, A. Pande & S. Alexander. 2021. Neighborhood effects of Safe Routes to School programs on the likelihood of active travel to school. *100th Annual Meeting of the Transportation Research Board.* Online.

Lamera, M., M. Williams, A. Bauranov, A. Pande, & **C.T. Voulgaris**. 2021. Safety performance of edge-lane roads. *100th Annual Meeting of the Transportation Research Board.* Online.

Darling, W., E. Carpenter, T. Johnson-Praino, C. Brakewood & **C.T. Voulgaris**. 2021. A comparison of reduced-fare programs for low-income transit riders. *100th Annual Meeting of the Transportation Research Board.* Online.

**Voulgaris, C.T.** 2020. Home away from home or work away from work: What are the travel effects of working from home? *60th Annual Association of Collegiate Schools of Planning Conference.* Online.

**Voulgaris, C.T.** & R. Oulton. 2019. Green and Complete Streets as an Opportunity for Cross-course Collaborative Projects. *American Society of Engineering Education Pacific Southwest Conference.* Los Angeles.

Shinn, J.E.& **C.T. Voulgaris.** 2019. Ridership Ramp-up? Initial ridership variation on new rail transit projects. *98th Annual Meeting of the Transportation Research Board*. Washington, DC.

Panik, R.T., E.A. Morris, & **C.T. Voulgaris.** 2019. Does walking and bicycling more mean exercising less? Evidence from the US and the Netherlands. *98th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.** 2018. In Forecasts We Trust? Correlates with ridership forecast accuracy for fixed-guideway transit projects. *97th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.** 2017. Federal Money for Local Projects: Analyzing Trends in Federally Funded Transit Project Cost Estimates. *57th Annual Association of Collegiate Schools of Planning Conference.* Denver, Colorado.

**Voulgaris, C.T.** 2017. Costly Errors: Analyzing Trends in Federally Funded Transit Project Cost Estimates. *96th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.**, E. Blumenberg, M. Brozen & K. Bridges.2017. Are These Streets Made for Walking? Walking and the Built Environment in Four California Cities. *96th Annual Meeting of the Transportation Research Board*. Washington, DC.

Ralph, K.M., **Voulgaris, C.T.** & A. Brown.2017. Travel and the Built Environment: Insights using Activity Densities, the Sprawl Index, and Neighborhood Types. *96th Annual Meeting of the Transportation Research Board*. Washington, DC.

Blumenberg, E., **C.T. Voulgaris**, M. Brozen & K. Bridges. 2017. Walk on: Are changes in neighborhood characteristics associated with changes in walking? *96th Annual Meeting of the Transportation Research Board*. Washington, DC.

Brozen, M., K. Bridges, **C.T. Voulgaris**, & E. Blumenberg. 2017. Improving the next generation of travel demand models to better represent pedestrian needs: The case of large California Metropolitan Planning Organizations. *96th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.** 2016. Crystal Balls and Black Boxes: Forecast accuracy for federally-funded transit projects. *56th Annual Association of Collegiate Schools of Planning Conference.* Portland, Oregon.

Brown, A., E. Blumenberg, B.D. Taylor, **C.T. Voulgaris**, & K. Ralph. 2016. A Taste for Transit? Analyzing Youth and Public Transit Use Trends in the U.S. *95th Annual Meeting of the Transportation Research Board*. Washington, DC.

Ralph, K., **C.T. Voulgaris**, B.D. Taylor, E. Blumenberg, & A. Brown. 2016. Youth, Travel, and the Built Environment: Insights from Typecasting Places and Younger Travelers. *95th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.**, E. Blumenberg, B.D. Taylor, A. Brown, & K. Ralph. 2016. Neighborhood Character and Travel Behavior: A Comprehensive Analysis of the U.S. *95th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.**, E. Blumenberg, A. Brown, K. Ralph & B.D. Taylor. 2015. Who Are the Travelers in Your Neighborhood? *55th Annual Association of Collegiate Schools of Planning Conference.* Houston, Texas.

Taylor, B.D., E. Blumenberg, A. Brown, K. Ralph & **C.T. Voulgaris**. 2015. Back to the City? Are Millennials Favoring Cities over the Suburbs and Rural Areas, and What Does This Mean for the Future of Travel? *55th Annual Association of Collegiate Schools of Planning Conference.* Houston, Texas.

**Voulgaris, C.T.**, A. Loukaitou-Sideris & B.D. Taylor. 2015. Planning for Pedestrian Flows in Underground Rail Transit Stations: A State-of-Practice Survey. *94th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Voulgaris, C.T.**, B.D. Taylor, & M. Smart. 2015. Long Routes to School? School Travel and Activity Participation among High School Students. *94th Annual Meeting of the Transportation Research Board*. Washington, DC.

**Turley, C.** 2014. Promises and Pitfalls of Transportation Utility Fees. 2014. *Transportation Research Board 5th International Conference on Surface Transportation Financing: Innovation, Experimentation, and Exploration.* July 11, 2014. Irvine, California.

**Turley, C.** & G. G. Schultz. 2008. Sensitivity Analysis of Driver Behavior and Vehicle Performance Parameters in a Microscopic Traffic Simulation Model. In *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, Athens, Greece.

*Reports*

**Voulgaris, C.T.**, S. Alexander, R. Hosseinzade, J. Jimenez, K. Lee, & A. Pande. 2020. *Measuring Success of Safe Routes to School Programs.* (MTI Report No. 1821). Mineta Transportation Institute. doi:https://doi.org/10.31979/mti.2020.1821

Kawahara, T., B. Liu, A. Pande, C. Thigpen, & **C.T. Voulgaris**. 2019. *Moving from Walkability? Evaluation of Traditional and Emerging Data Source for Evaluating Changes in Campus-Generated Greenhouse Gas Emissions*. (MTI Report No. 1857). Mineta Transportation Institute.

Blumenberg, E., K. Bridges, M. Brozen, & **C.T. Voulgaris**. 2016. *Heightening Walking above its Pedestrian Status: Walking and Travel Behavior in California.* (UCCONNECT Report No. TO 015 – 65AO529). University of California Center for Economic Competitiveness in Transportation.

Blumenberg, E., A. Brown, K. Ralph, & B.D. Taylor, & **Voulgaris, C.T.** 2015. *Typecasting Neighborhoods and Travelers: Analyzing the Geography of Travel Behavior among Teens and Young Adults in the U.S*. Federal Highway Administration.

Loukaitou-Sideris, A., B.D. Taylor, & **C.T. Voulgaris**. 2015. *Passenger Flows in Underground Railway Stations and Platforms* (MTI Report No. 12-43). Mineta Transportation Institute.

Smart, M.J., K.M. Ralph, B.D. Taylor, **C. Turley**, & A.E. Brown. *Honey, Can You Pick-Up Groceries on Your Way Home? Analyzing activities and travel among students and in non-traditional households*. (Report number UCTC-FR-2014-07). University of California Transportation Center.

**Turley, C.** 2011. Water Services: Progress and Constraints. *Briefing Papers (266).* Catholic Parliamentary Liaison Office. Cape Town.

**Turley, C.** 2011. What Drives the Bus? Public Transport Objectives in South Africa. *Occasional Papers (30).* Catholic Parliamentary Liaison Office. Cape Town.

*Media Coverage*

David Harrison, “Billions Spent on Roads and Transit Projects Are Often Based on Optimistic Forecasts,” *Wall Street Journal*, September 21, 2021, sec. Politics, https://www.wsj.com/articles/transportation-projects-often-rely-on-optimistic-forecasts-11632216602.

Gorey, H. 2019. “Will transportation woes drive down home prices?” RealEstate by Boston.com and Globe.com. 4 September 2019. http://realestate.boston.com/buying/2019/09/04/transportation-woes-drive-home-prices/

Lindblom, M. 2018. “Sound Transit seeks two light-rail stations in South Lake Union, only five blocks apart.” Seattle Times. 25 March 2018. https://www.seattletimes.com/seattle-news/transportation/sound-transit-seeks-two-light-rail-stations-in-south-lake-union-but-at-what-cost/

Lindblom, M. 2016. “Megaproject expert: Transit-cost estimates getting more realistic.” Seattle Times. 22 August 2016. http://www.seattletimes.com/seattle-news/transportation/megaproject-expert-transit-cost-estimates-getting-more-realistic/

Lindblom, M. 2016. “Sound Transit’s cost overruns for first phase hit about 86 percent.” *Seattle Times.* 20 August 2016. http://www.seattletimes.com/seattle-news/transportation/sound-transits-cost-overruns-for-first-phase-hit-about-86-percent/

Viotti, V. 2015. “How much more can we afford?” *Honolulu Star Advertiser.* 4 October 2015. http://www.pressreader.com/usa/honolulu-star-advertiser/20151004/283678298490196/TextView

Laskow, S. 2015. “How Simulators are changing subway-station design” *Politico New York*. 6 February 2015. http://www.politico.com/states/new-york/city-hall/story/2015/02/how-simulators-are-changing-subway-station-design-086730

Teaching

*SES 5394: Travel Behavior and Forecasting* Spring 2022

Harvard Graduate School of Design

*SES 5437: Transportation Economics and Finance* Fall 2021

Harvard Graduate School of Design

*VIS 2128: Spatial Analysis* Fall 2021

Harvard Graduate School of Design

*ADV 9204: Preparation for Independent Thesis Proposal* Fall 2020

Harvard Graduate School of Design

*SES 5215: Analytic Methods of Urban Planning: Quantitative* Fall 2020, 2021

Harvard Graduate School of Design

*STU 1122: Second Semester Core Urban Planning Studio* Spring 2020

Harvard Graduate School of Design

*VIS 2129: Spatial Analysis and the Built Environment* Fall 2019, 2020

Harvard Graduate School of Design

*Civil Engineering 523: Transportation System Planning* Fall 2018

California Polytechnic State University

*Civil Engineering 527: Sustainable Mobility* Spring 2018, 2019

California Polytechnic State University

*Civil Engineering 423: Intelligent Transportation Systems* Spring 2018, 2019

California Polytechnic State University

*Civil Engineering 424: Public Transportation*Winter 2018, 2019

California Polytechnic State University

Funded Research Grants

*Center for Green Buildings and Cities Faculty Research Grant* 2021

Role: Co-principal Investigator (with Elizabeth Christoforetti) Amount: $19,393

Project Title: Location-based Sustainability Analysis

*Center for Green Buildings and Cities Faculty Research Grant* 2020

Role: Principal Investigator Amount: $19,992

Project Title: Evaluating Methods for Estimating Site-level Vehicle Miles Traveled

*California State University Transportation Consortium Grant* 2019

Role: Principal Investigator Amount: $75,000

Project Title: Safety Considerations for All Road Users of Advisory Bike Lanes

*California Department of Transportation Grant* 2018

Role: Principal Investigator Amount: $782,311

Project Title: Transportation Management Center Training Simulator Support

*CTEDD Research Grant* 2018

Role: Co-principal Investigator (with Anurag Pande) Amount: $55,177

Project Title: An Empirical Bayes Approach to Quantifying the Impact of Transportation Network Companies on Vehicle Miles Traveled

*Mineta Transportation Institute Research Grant* 2018

Role: Principal Investigator Amount: $48,271

Project Title: Safe Routes to School Intersectional Analysis

*California State University Transportation Consortium Grant* 2018

Role: Principal Investigator Amount: $73,453

Project Title: Moving to Walkability? State and revealed behavior on the impacts of land use and travel demand management on mode choice

*UC Institute of Transportation Studies Grant* 2017

Role: Principal Investigator Amount: $20,000

Project Title: Crystal Balls and Black Boxes: Optimism Biasin Ridership and Cost Forecasts for New Starts Rapid Transit Projects

*UCLA Graduate Division Dissertation Year Fellowship* 2016

Role: Principal Investigator Amount: $35,830

Project Title: Crystal Balls and Black Boxes: Optimism Biasin Ridership and Cost Forecasts for New Starts Rapid Transit Projects

*UCCONNECT Dissertation Grant* 2016

Role: Principal Investigator Amount: $7,500

Project Title: Crystal Balls and Black Boxes: Optimism Biasin Ridership and Cost Forecasts for New Starts Rapid Transit Projects

*UCLA Graduate Division Graduate Summer Research Mentorship Grant*2013

Role: Mentored student researcher (with Evelyn Blumenberg) Amount: $6,000

Project Title: The Role of Pupil Transportation in Education Reform and School Choice

Awards and Honors

*Transportation Research Board William W. Millar Award* 2022

Awarded to the authors of the best paper in the public transportation area at the TRB Annual Meeting

*Urban Planning and Design Student Forum Recognition Faculty Award* 2021

Selected by vote of the student body at the Harvard Graduate School of Design

*Transportation Research Board Fred Burggraf Award* 2020

Awarded to recognize excellence in transportation research for scholars 35 years of age or younger

*Pacific Southwest Region CUTC Outstanding Student of the Year Award* 2018

Awarded by the Council of University Transportation Centers

*Barclay Gibbs Jones Award* 2017

Awarded by ACSP for best doctoral dissertation in planning

*Eno Leadership Development Conference Alumni Fellowship*2015

Awarded to top-rated applicant to the Eno Leadership Development Conference

*Institute of Transportation Studies Fellowship* 2014

Merit-based fellowship for UCLA graduate students in transportation

*Eisenhower Fellowship*2013

Merit-based fellowship administered by the Federal Highway Administration

*American Public Transportation Foundation Hall of Fame Scholarship* 2006

Merit-based scholarship awarded to five transportation students nationally

Service and Leadership

*National Cooperative Highway Research Program* 2021-present

Member, project panel on incorporation of uncertainty in long-range transportation planning

*Eno Center for Transportation* 2020-present

Member, advisory panel on transit costs and project delivery

*Association of Collegiate Schools of Planning* 2020-present

Member, Doctoral Committee

*Transportation Research Board, National Academies of Sciences, Engineering, and Medicine*

Member, AP090: Standing Committee on Transit Data 2020-present

Secretaty, AP090: Standing Committee on Transit Data 2021-present

Member, AP030: Standing Committee on Public Transportation Marketing and Fare Policy 2021-present

*Institute of Transportation Engineers* 2018-2019

Faculty Advisor, Cal Poly Student Chapter

*Critical Planning Journal* 2012-2013

Managing Co-editor

*National Association of Women MBAs* 2011

President, Notre Dame Student Chapter

*Institute of Transportation Engineers* 2006-2007

Secretary, Brigham Young University Student Chapter

*American Society of Civil Engineers* 2003

Vice President, Brigham Young University Student Chapter

Professional License

Professional Engineer (PE), Washington License #: 47256