Energy Analysis and Environmental Impacts Division
Lawrence Berkeley National Laboratory
Berkeley, CA 94720

650.416.4816 ☎
ndpopovich@lbl.gov ✉

NATALIE POPOVICH

education

Ph.D in Agricultural and Resource Economics, University of California, Davis, 2019

Dissertation: *Information as a tool for urban water conservation: three essays in microeconomics*

Dissertation committee: Katrina Jessoe (chair), Erich Muehlegger, Jeffrey Williams

M.S. in Agricultural and Resource Economics, University of California, Davis, 2017

M.S. in Transportation Technology and Policy, University of California, Davis, 2014

Thesis: *Mode Choice, the Built Environment, and Consumer Behavior: Insights from Davis, CA*

Thesis committee: Susan Handy (chair), Pat Mokhtarian, Deborah Salon

B.A. in Race and Ethnic Studies, Whitman College, 2010

Concentration: Environmental Justice

Thesis: *Residential Chemistry in Walla Walla: An Exploration of Neighborhood Diversity and Interaction*

One-year study abroad, Sociology, Universidad de Buenos Aires, Argentina, 2008-2009

research experience

Justice40 Fellow, U.S. Department of Energy Office of Economic Impact and Diversity, May 2021 - present

Research Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA, Oct 2021 - present

Project Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA, Jun 2020 - Oct 2021

Senior Scientific Engineering Associate, Lawrence Berkeley National Laboratory, (Jan 2019 - Jun 2020)

Graduate Student Researcher, Center for Water-Energy Efficiency, UC Davis, 2015 - 2019

Research Assistant, Institute of Transportation Studies, UC Davis, 2012 - 2014

Active Transportation Program Specialist, City of Davis, Davis, CA, 2013 - 2014

publications

Peer-reviewed journal articles

Popovich, N., Phadke, A., Rajagopal, D., and E. Tasar. (2021) Economic, environmental, and grid resilience benefits of converting diesel trains to battery-electric. *Nature Energy.* https://doi.org/10.1038/s41560-021-00915-5

Popovich, N., Spurlock, C.A., Needell, Z., Jin, L., Wenzel, T., Sheppard, C., and M. Asudegi. (2021). A Methodology to Develop a Geo-spatial Transportation Typology. *Journal of Transport Geography, 93.* https://doi.org/10.1016/j.jtrangeo.2021.103061

Popovich, N. and S. Handy. (2015). Downtown, Strip Centers, and Big-Box Stores: Mode Choice by Shopping Destination Type in Davis, California. *Journal of Transport and Land Use, 8*(2): 149-170. https://doi.org/10.5198/jtlu.2015.739

Popovich, N. and S. Handy. (2014). Bicyclists as Consumers: Mode Choice and Spending Behavior in Downtown Davis, CA. *Transportation Research Record: Journal of the Transportation Research Board, 2468*: 47-54. https://doi.org/10.3141/2468-06

Popovich, N., Gordon, E., Shao, Z., Xing, Y., Wang, Y., and S. Handy. (2013). Experiences of electric bicycle users in the Sacramento, California area. *Travel Behaviour and Society, 1*(2): 37-44. https://doi.org/10.1016/j.tbs.2013.10.006

In review

Popovich, N. Social comparisons in residential water use: measuring the salience of electronic information and the mechanisms of response.

Kersey, J., **Popovich, N.**, and A. Phadke. Application of rapidly improving battery technology for direct electrification of intraregional container shipping. Preprint: `https://doi.org/10.21203/rs.3.rs-852125/v1`

Reports and white papers

Popovich, N. 2018. Valuing information feedback loops for long-term resource management. Report for the Ellen MacArthur Foundation.

Popovich, N., Martindill, J., Sanguinetti, A, and Olmos, K. 2018. Smart Water-Energy Savings Final Report for the Department of Water Resources. Center for Water-Energy Efficiency.

Popovich, N. 2014. Results of the 2013-14 Campus Travel Survey. *Institute of Transportation Studies, University of California, Davis, Research Report UCD-ITS-RR-14-14.*

Popovich, N. and C. Thigpen. 2013. Congestion Pricing Policy Memo. University of California Transportation Center.

Snyder, D., **Popovich, N.**, and C. Kidd. 2013. "How California's bike budget can triple bicycling by 2020.

Popovich, N. 2009. The Walla Walla Valley Wine Industry and Its Impacts on Farmworkers' Health, Labor, and Housing Needs. Directed research study for the Washington State Farmworkers Housing Trust.

selected presentations

"A Methodology to Develop a Geo-spatial Transportation Typology." Annual Meeting of the Transportation Research Board, Washington D.C., Jan 2021.

"Valuing information stocks in urban systems for long-term resource management." Congress of the International Society for Ecological Economics, Mexico City, Mexico, Sep 2018.

"Optimizing information stocks in urban systems to increase the circularity of water." Schmidt MacArthur Fellows Summer School, London, UK, Jun 2017.

"Downtown, Strip Centers, and Big-Box Stores: Mode Choice by Shopping Destination Type in Davis, California." World Symposium on Transportation and Land Use, Delft, The Netherlands, Jun 2014.

research grants

Early Career Development Lab-Directed Research & Development Award, Berkeley Lab, 2021, $450,000
Henry A. Jastro Graduate Research Award, UC Davis, 2016
AAA Greenlight Sustainable Transportation Research Fellowship, UC Davis, 2013, $17,000
University of California Transportation Center Fellowship, UC Davis, 2012 - 2014

honors & awards

CORE-Teagle Fellow, CORE-USA, 2017
Schmidt MacArthur Circular Economy Fellow, Ellen MacArthur Foundation, 2017
Helen M. Overly Memorial Fellowship, Women in Transportation Seminar, 2014
DUCK Award for Outstanding Community Service, Whitman College, 2010

memberships

Council-Appointed Representative for the City of Pacific Grove, Transportation Agency of Monterey County Bicycle and Pedestrian Committee, Jan 2021 - present
Alumni Board Member, Ellen MacArthur Foundation, May 2018 - present
Board President (Treasurer), Our Climate, Jun 2019 - Aug 2021 (Feb 2014- May 2019)
Board Secretary, Bike Davis, Feb 2013 - June 2014

service to the profession	Coordinator, Sustainability Working Group, Young Scholar's Initiative, Aug 2017 - 2019
	Founder/Leader, Pluralism in Economics Reading Group, Davis, CA, 2015 - 2018
	Reviewer for paper submissions to: *Transportation Research Record, Transportation, Travel Behavior and Society, The Energy Journal, Transport Geography, Findings*
languages	English (native), Spanish (highly proficient), French (advanced)
skills	R, Stata, LaTeX, QGIS, Atlas.ti