

Lewis Lehe

Research interests

urban congestion, congestion pricing, land use, transportation economics and policy

Appointments

2018-present **Assistant professor**, *Dept. of Civil & Environmental Eng., University of Illinois Urbana-Champaign.*

Education

2016 **Ph.D. Civil and Environmental Engineering**, *UC Berkeley.*

- Thesis: *Aspatial Models of Zone Pricing and Parking*
- Advisor: Carlos Daganzo
- Minors: Economics and City Planning

2013 **M.S. Civil and Environmental Engineering**, *UC Berkeley.*

2012 **M.A. Civil and Environmental Engineering**, *University of Leeds .*

- Dissertation: *Income Effects in Discrete Choice Models*

2010 **B. Phil. Mathematics-Economics**, *University of Pittsburgh.*

Publications

Daganzo, C. F., & Lehe, L. J. (2015). Distance-dependent congestion pricing for downtown zones. *Transportation Research Part B: Methodological*, 75, 89-99.

Daganzo, C. F., & Lehe, L. J. (2016). Traffic flow on signalized streets. *Transportation Research: Part B: Methodological*, 90, 56-69.

Daganzo, C. F., Lehe, L. J., & Argote-Cabanero, J. (2017). Adaptive offsets for signalized streets. *Transportation Research Part B: Methodological*, 117, 926-934.

Lehe, L. J. (2017). Feedback and the use of land for parking. *Journal of Transport and Land Use*, 10(1), 463-476.

Lehe, L. J. (2017). Downtown tolls and the distribution of trip lengths. *Economics of Transportation*, 11-12, 23-32.

Lehe, L. J. (2018). How minimum parking requirements make housing more expensive. *Journal of Transport and Land Use*, 11(1), 1309-1321.

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Lehe, L. J. (2019). Downtown congestion pricing in practice. *Transportation Research Part C*, 100, 200–223.

Lehe, L. J. (2020). Winners and losers from road pricing with heterogeneous travelers and a mixed-traffic bus alternative. *Transportation Research Part B: Methodological*, 139, pp. 432-446.

Lehe, L. J. & Pandey, A. (2020). Hyperdemand: a static traffic model with backward-bending demand curves. *Economics of Transportation*, in press.

█ Papers in progress

Regulated street-hail taxi service with heterogeneous drivers (with Ayush Pandey).

The expansion of US cities (with Issi Romem and Mauricio Arango)

█ Grants

“Taxation of Ridesharing.” PI. \$160k. Illinois Center for Transportation.

“City as a Reservoir System” Living Lab. PI. \$25k. Institute for Sustainability, Energy and the Environment, UIUC.

“The Effect of Mobility-on-Demand Services on the Last Mile Problem.” co-PI. \$30k. Institute for Sustainability, Energy and the Environment, UIUC.

█ Teaching

CE 259 Public Transportation Systems (graduate, UC Berkeley)

CEE 310 Transportation Engineering (undergraduate, UIUC)

CEE 498TE Transportation Economics (undergraduate/graduate sections, UIUC)

█ Service & Outreach

Traffic Vis.com: website to teach traffic flow concepts with interactive games and videos. 40,000 page views in Nov. 2019.

Reviewer for:

- *Transportation Research Part A: Policy and Practice*
- *Transportation Research Part B: Methodological*
- *Transportation Research Part C: Emerging Technologies*
- *Economics of Transportation*
- *Journal of Transport and Land Use*
- *Transport Findings*

Treasurer for *Transport Findings*.