

Lewis Lehe

ASSISTANT PROFESSOR · CIVIL AND ENVIRONMENTAL ENGINEERING
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Education

UC Berkeley

PHD CIVIL AND ENVIRONMENTAL ENGINEERING

- Advisor: Dr. Carlos Daganzo
- Concentration: Transportation Engineering

Berkeley, CA

2013-2016

UC Berkeley

MS CIVIL AND ENVIRONMENTAL ENGINEERING

- Concentration: Transportation Engineering

Berkeley, CA

2012 - 2013

University of Leeds

MA TRANSPORT ECONOMICS

- Thesis: Income Effects in Discrete Choice Models

Leeds, United Kingdom

2011 - 2012

University of Pittsburgh

B.PHIL. MATHEMATICS-ECONOMICS

- Latin American Studies Certificate

Pittsburgh, PA

2005 - 2010

Publications

PUBLISHED

Daganzo, C.F., **Lehe, L.J.**, 2015. Distance-dependent congestion pricing for downtown zones. *Transportation Research Part B: Methodological* 75, 89-99. doi:10.1016/j.trb.2015.02.010

Lehe, L., 2019. Downtown congestion pricing in practice. *Transportation Research Part C: Emerging Technologies* 100, 200-223. doi:10.1016/j.trc.2019.01.020

Lehe, L., Pandey, A., 2022. Taxi service with heterogeneous drivers and a competitive medallion market. *Journal of Urban Economics* 131, 103488. doi:10.1016/j.jue.2022.103488

Lehe, L., Devunuri, S., Rondan, J., Pandey, A., 2021. Taxation of Ride-hailing. Illinois Center for Transportation. doi:10.36501/0197-9191/21-040

Lehe, L., Gayah, V.V., Pandey, A., 2021. Increasing Returns to Scale in Carpool Matching: Evidence from Scoop. *Findings*. doi:10.32866/001c.25093

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, 432-446. doi:10.1016/j.trb.2020.07.003

Lehe, L.J., 2017. Downtown tolls and the distribution of trip lengths. *Economics of Transportation* 11-12, 23-32. doi:10.1016/j.econtra.2017.10.003

Lehe, L.J., Devunuri, S., 2022. Large Elasticity at Introduction. *Research in Transportation Economics* 95, 101116. doi:10.1016/j.retrec.2021.101116

Lehe, L.J., Pandey, A., 2020. Hyperdemand: A static traffic model with backward-bending demand curves. *Economics of Transportation* 24. doi:10.1016/j.econtra.2020.100182

Hu, S., Zhou, Q., Li, J., Wang, Y., Roncoli, C., Zhang, L., **Lehe, L.**, 2022. High Time-Resolution Queue Profile Estimation at Signalized Intersections Based on Extended Kalman Filtering. *IEEE Transactions on Intelligent Transportation Systems* 23, 21274-21290. doi:10.1109/TITS.2022.3173515

Pandey, A., **Lehe, L.**, Monzer, D., 2021. Distributions of Bus Stop Spacings in the United States. *Findings*. doi:10.32866/001c.27373

Daganzo, C.F., **Lehe, L.J.**, Argote-Cabanero, J., 2018. Adaptive offsets for signalized streets. *Transportation Research Part B: methodological* 117, 926-934.

Daganzo, C.F., **Lehe, L.J.**, 2016. Traffic flow on signalized streets. *Transportation Research Part B: Methodological* 90, 56-69. <https://doi.org/10.1016/j.trb.2016.03.010>

Lehe, L., 2018. Minimum parking requirements and housing affordability. *Journal of Transport and Land Use* 11, 1309-1321.

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

IN REVIEW

Devunuri, S., Qiam, S., **Lehe, L.**, Pandey, A., 2022. Bus Stop Spacings Statistics: Theory and Evidence. *Transportation Research Review*. doi:10.48550/arXiv.2208.04394

Lehe, L.J., Pandey, A., Levy, A., 2022. Bus Stop Spacing with Heterogeneous Trip Lengths and Elastic Demand. *Transportation Science*. doi:10.2139/ssrn.4135394

Liu, H., Devunuri, S., **Lehe, L.J.**, Gayah, VV., 2022. Scale Effects in Ridesplitting: A Case Study of the City of Chicago. *Transportation Research Part A: Policy and Practice*.

Pandey, A., **Lehe, L.J.**, 2022. Local stability of traffic equilibria in an isotropic network. *Transportation Research Part B: Methodological*.

Awards, Fellowships, & Grants

2021	Collaborative Research: Economics and Control for Next-Generation Carpooling , National Science Foundation: CMMI-2052512	\$ 200,000
2021-2022	Mobility On-demand Lab , Discovery Partners Institute	\$ 150,000
2021-2022	The Last Mile Problem - a Grand Transportation Challenge Award , National Bureau of Economic Research	\$ 75,000
2020-2021	Taxation of Ridesharing , Illinois Center for Transportation	\$ 160,000

Teaching Experience

Spring 2019+	CEE 310: Transportation Engineering ,	Every semester
Spring 2019+	CEE 419: Transportation Economics ,	Every spring

Outreach & Professional Development

SERVICE AND OUTREACH

- 2022+ **Institute for Transportation Engineers Student Chapter**, Faculty Advisor
- 2022+ **Graduate Ambassadors Committee**, Chair
- 2020+ **UIUC Faculty Senate**, Senator

PEER REVIEW

Transportation Research Parts A-C, Transportation Research Review, Economics of Transportation, Journal of Urban Economics, Findings