

# Lewis Lehe

ASSISTANT PROFESSOR · CIVIL AND ENVIRONMENTAL ENGINEERING  
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

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## Education

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### UC Berkeley

Berkeley, CA

PHD CIVIL AND ENVIRONMENTAL ENGINEERING

2013-2016

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

### UC Berkeley

Berkeley, CA

MS CIVIL AND ENVIRONMENTAL ENGINEERING

2012 - 2013

- Concentration: Transportation Engineering

### University of Leeds

Leeds, United Kingdom

MA TRANSPORT ECONOMICS

2011 - 2012

- Thesis: Income Effects in Discrete Choice Models

### University of Pittsburgh

Pittsburgh, PA

B.PHIL. MATHEMATICS-ECONOMICS

2005 - 2010

- Latin American Studies Certificate

## Publications

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### 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

2018	<b>Graduate Research Fellowship</b> , Granting Organization	\$ 20,000
	<b>A Departmental Award</b> , University Department	\$ 2,500
	<b>Another Award</b> , Granting Institution	\$ 1,000
2017	<b>An Award</b> , Granting Institution	\$ 2,000
	<b>Award Name</b> , Granting Institution	\$ 1,000
	<b>A Travel Award</b> , Granting Institution	\$ 300
	<b>Another Travel Award</b> , Granting Institution	\$ 500
2016	<b>Perhaps a Big Award</b> , Granting Institution	\$ 10,000

## Presentations

\* *presenting author*; + *mentored undergraduate*

### INVITED TALKS

- Spring 2019. *Title of my fancy talk*. Invited talk: Event That I Presented At, City, State.
- Spring 2018. *A guest lecture for a course*. Guest Lecture, Name of Course, University.
- Spring 2018. *A different invited talk that I gave*. Invited talk: Event I Presented At, City, State.

### CONTRIBUTED PRESENTATIONS

- Name, Y.** 2018. A talk that I gave at a departmental seminar. Departmental seminar: University's Department, City, State.
- Name, Y.**, Author Two, Author Three, Author Four. 2018. Title of a talk that I presented at a conference. Oral presentation: A Cool Conference, City, State.
- Name, Y.**, Author Two. 2018. A poster that I presented with only myself and my advisor as authors. Poster: The Conference I Presented At, City, State.
- Name, Y.**, Author Two, Author Three, Author Four. 2018. Title of a talk that I presented at a conference. Oral presentation: A Cool Conference, City, State.
- Name, Y.** 2015. A different departmental seminar that I gave. Departmental seminar: University's Department, City, State.
- Undergrad, Y\*\*, **Your Name**, Author Three, Author Four. 2015. Title of a poster presented by an undergrad I mentored. Poster: Event Presented At, City, State.

## Teaching Experience \_\_\_\_\_

Spring 2018    **Course**, Teaching Assistant  
Spring 2017    **Course**, Teaching Assistant  
Fall 2016    **Course**, Teaching Assistant  
Fall 2015    **Course**, Teaching Assistant  
Spring 2015    **Teaching Fellow Position**, University Department  
Fall 2014    **Course**, Teaching Assistant

## Mentoring \_\_\_\_\_

2016-2017    **Undergraduate Name**, Position, University  
2014-2015    **Undergraduate Name**, Position, University  
2014-2015    **Undergraduate Name**, Position, University

## Outreach & Professional Development \_\_\_\_\_

### SERVICE AND OUTREACH

2018    **Science Fair**, Volunteer Judge  
2016-2017    **Graduate Student Association**, Committee Member

### DEVELOPMENT

**Workshop I Participated In**, and an explanation of this workshop, what I learned from it, and why I consider it to be professional development.

### PEER REVIEW

One journal I review for  
Another journal

### PROFESSIONAL MEMBERSHIPS

One fancy society  
Another fancy society