

CURRICULUM VITAE

ALEX KARNER

Graduate Program in Community and Regional Planning
School of Architecture
The University of Texas at Austin
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Austin, TX 78712

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EDUCATION

University of California, Davis

PhD, Civil and Environmental Engineering, 2012

Dissertation: Transportation Planning and Regional Equity: History, Policy, and Practice

Committee: Deb Niemeier, Patricia Mokhtarian, Jonathan London

MS, Civil and Environmental Engineering, 2008

Thesis: Near-Roadway Air Quality: Meta-Analysis and Mitigation

University of California, San Diego

Visiting graduate student, Department of History, Sep. 2009 – Mar. 2010

University of Toronto

BASc (Hons), Civil Engineering, 2006

Thesis: Evaluating the Life Cycle Energy and Emissions Implications of Transportation
Fuels Derived from the Alberta Oil Sands

ACADEMIC EMPLOYMENT

Graduate Program in Community and Regional Planning

School of Architecture

The University of Texas at Austin

Aug. 2017 – Present: Assistant professor

Faculty affiliate in Urban Studies

School of City and Regional Planning

College of Design

Georgia Institute of Technology

Aug. 2015 – Aug. 2017: Assistant professor

Center for Sustainable Urban Development

Department of Transportation Engineering and Logistics

Pontificia Universidad Católica de Chile

May 2015 – Aug. 2015: Postdoctoral researcher

**Julie Ann Wrigley Global Institute of Sustainability
Walton Sustainability Solutions Initiatives
Arizona State University**

Jan. 2014 – Aug. 2015: Postdoctoral research fellow

**Department of Civil and Environmental Engineering and Center for Regional Change
University of California, Davis**

Oct. 2012 – Jan. 2014: Postdoctoral researcher

PUBLICATIONS

(Student co-authors indicated with ^S)

Peer-reviewed and law review

Published or in-press while at UT-Austin

- P28. Bierbaum, A., **A. Karner**, and J. Barajas. “Towards Mobility Justice: Linking Transportation and Education Equity in the Context of School Choice.” *Journal of the American Planning Association*, In press. <https://doi.org/10.1080/01944363.2020.1803104>
- P27. **Karner, A.**, J. London, D. Rowangould, and K. Manaugh. “From Transportation Equity to Transportation Justice: Within, Through, and Beyond the State.” *Journal of Planning Literature*, 2020. 35(4): 440-459.
- P26. Alcorn, L.^S and **A. Karner**. “Integrating Formal and Informal Transit into One Hybrid Passenger Transport System in Lagos, Nigeria.” *Transportation*, In press. <https://doi.org/10.1007/s11116-020-10099-8>
- P25. **Karner, A.**, K. Brower Brown,^S R. Marcantonio, and L. Alcorn.^S “The View from the Top of Arnstein’s Ladder: Participatory Budgeting and the Promise of Community Control.” *Journal of the American Planning Association [Special issue on “50 Years since Arnstein’s Ladder”]*, 2019. 85(3): 236-254.
- P24. **Karner, A.** and R. Duckworth.^S “‘Pray for Transit’: Seeking Transportation Justice in Metropolitan Atlanta.” *Urban Studies*, 2019. 56(9): 1882-1900.
- P23. Zhong, Q.,^S **A. Karner, A.**, Golub, A., and M. Kuby. “A Multiobjective Optimization Model for Locating Affordable Housing Investments While Maximizing Accessibility to Jobs by Public Transportation.” *Environment and Planning B: Urban Analytics and City Science*, 2019. 46(3): 490-510.
- P22. Kent, M.^S and **A. Karner**. “Prioritizing Low-Stress and Equitable Bicycle Infrastructure using a Novel Accessibility Measure.” *International Journal of Sustainable Transportation*, 2019. 13(2): 100-110.
- P21. Wu, Y.,^S D. Rowangould, J. London, and **A. Karner**. “Modeling Health Equity in Active Transportation Planning.” *Transportation Research Part D: Transport and Environment*, 2019. 67: 528-540.
- P20. **Karner, A.** and Marcantonio, R. “Achieving Transportation Equity: Meaningful Public Involvement to Meet the Needs of Underserved Communities.” *Journal of Public Works Management & Policy*, 2018. 23(2): 105-126.
- P19. **Karner, A.** “Assessing Public Transit Service Equity using Route-Level Accessibility Measures and Public Data.” *Journal of Transport Geography*, 2018. 67: 24-32.

- P18. Marcantonio, R., A. Golub, **A. Karner**, and L.N. Dyble. “Confronting Inequality in Metropolitan Regions: Realizing the Promise of Civil Rights and Environmental Justice in Metropolitan Transportation Planning.” *Fordham Urban Law Journal*, 2017. 44(4): 1017-1077.
- P17. Cloutier, S., **A. Karner**, H. Breetz, P. Toufani,^S N. Onat, S. Patel,^S S. Paralkar,^S E. Berejnoi, B. Morrison, J. Papenfuss, A.D. Briggs, and C. Carlson. “Measures of a Sustainable Commute as a Predictor of Happiness.” *Sustainability*, 2017. 9: 1214.

Published prior to UT-Austin

- P16. **Karner, A.** “Planning for Transportation Equity in Small Regions: Towards Meaningful Performance Assessment.” *Transport Policy*, 2016. 52: 46-54.
- P15. Benner, C. and **A. Karner**. “Low-Wage Jobs-Housing Fit: Identifying Locations of Affordable Housing Shortages.” *Urban Geography*, 2016. 37(6):883-903.
- P14. Rowangould, D., **A. Karner**, and J. London. “Identifying Environmental Justice Communities for Transportation Analysis.” *Transportation Research Part A: Policy and Practice*, 2016. 88: 151-162.
- P13. **Karner, A.** and A. Golub. “Comparison of Two Common Approaches to Public Transit Service Equity Evaluation.” *Transportation Research Record*, 2015. 2531: 170-179.
- P12. **Karner, A.**, D. Hondula, and J. Vanos. “Heat Exposure and Vulnerability During Non-Motorized Travel: Implications for Transportation Policy Under Climate Change.” *Journal of Transport & Health*, 2015. 2(4): 451-459.
- P11. **Karner, A.** and J. London. “Rural Communities and Transportation Equity in California’s San Joaquin Valley.” *Transportation Research Record*, 2014. 2452: 90-97.
- P10. **Karner, A.** and D. Niemeier. “Civil Rights Guidance and Equity Analysis Methods for Regional Transportation Plans: A Critical Review of Literature and Practice.” *Journal of Transport Geography*, 2013. 33: 126-134.
- P9. London, J., **A. Karner**, J. Sze, D. Rowan, G. Gambirazzio and D. Niemeier. “Racing Climate Change: Collaboration and Conflict in California’s Global Climate Change Policy Arena.” *Global Environmental Change*, 2013. 23(4): 791-799.
- P8. **Karner, A.** “Multimodal Dreamin’: California Transportation Planning, 1967-1977.” *Journal of Transport History*, 2013. 34(1): 39-57.
- P7. **Karner, A.**, A. Urrutia, and D. Niemeier. “US Public Transit Fantasies: Performance and Economic Stimulus.” *International Journal of Transport Economics*, 2012. 34(1): 39-55.
- P6. **Karner, A.**, D. Eisinger, and D. Niemeier. “Near-Roadway Air Quality: Synthesizing the Findings from Real-World Data.” *Environmental Science & Technology*, 2010. 44(14): 5334-5344. [*A “highly cited paper” in the top 1% of all papers in the field of environment/ecology according to Clarivate Analytics.*]
- P5. Rowan, D., **A. Karner**, and D. Niemeier. “MPG Illusions and CAFE Distortions: When Even the Transport Experts Have Trouble.” *Transportation Research Record*, 2010. 2191: 8-15.
- P4. Gould, G. and **A. Karner**. “Modeling Bicycle Facility Operation: A Cellular Automaton Approach.” *Transportation Research Record*, 2009. 2140: 157-164.
- P3. **Karner, A.**, D. Eisinger, S. Bai, and D. Niemeier. “Mitigating Diesel Truck Impacts in Environmental Justice Communities: Transportation Planning and Air Quality in Barrio Logan, San Diego, California.” *Transportation Research Record*, 2009. 2125: 1-8.

- P2. Sze, J., G. Gambirazzio, **A. Karner**, D. Rowan, J. London, and D. Niemeier. "Best in Show? Climate and Environmental Justice Policy in California." *Environmental Justice*, 2009. 2(4): 179-184.
- P1. Niemeier, D., G. Gould, **A. Karner**, M. Hixson, B. Bachmann, C. Okma, Z. Lang, and D. Heres Del Valle. "Rethinking Downstream Regulation: California's Opportunity to Engage Households in Reducing Greenhouse Gases." *Energy Policy*, 2008. 36(9): 3436-3447.

Book chapters published while at UT-Austin

- C4. Pereira, R. and **A. Karner**. "Transportation Equity." In *International Encyclopedia of Transportation*. R. Vickerman, R. Noland, and D. Ettema (eds.), Amsterdam: Elsevier, In press. pp. 16.
- C3. **Karner, A.** and A. Golub. "Assessing the Equity Impacts of a Transportation Improvement Program." In *Measuring Transport Equity*. Lucas, K., K. Martens, F. Di Ciommo, and A. Dupont-Kieffer (eds.), Amsterdam: Elsevier, 2019. pp. 277-290.
- C2. **Karner, A.**, A. Golub, K. Martens, and G. Robinson. "Transportation and Environmental Justice: History and Emerging Practice." In *Routledge Handbook of Environmental Justice*. Holifield, R., J. Chakraborty, and G. Walker (eds.), New York: Routledge, 2018. pp. 400-411.

Book chapters published prior to UT-Austin

- C1. **Karner, A.**, J. London, D. Rowangould, and C. Garoupa-White. "Putting Data into Action for Regional Equity in California's San Joaquin Valley." In *What Counts: Harnessing Data for America's Communities*. Federal Reserve Bank of San Francisco and the Urban Institute, (eds.), 2014. pp. 272-276.

Book reviews

- BR3. **Karner, A.** "After the Car." Dennis, K. and J. Urry. *Journal of the American Planning Association*, 2010. 76(3):379-380.
- BR2. **Karner, A.** "Socially Responsible Engineering: Justice in Risk Management." Vallerio, D.A. and P.A. Vesilind. *Science and Engineering Ethics*, 2010. 16(2):415-417.
- BR1. **Karner, A.** "Creating a Climate for Change: Communicating Climate Change and Facilitating Social Change." Moser, S.C. and L. Dilling (eds.). *Public Understanding of Science*, 2008. 17(4): 503-505.

Non-peer reviewed articles

- O6. **Karner, A.** "Analyzing Public Transit Equity Using CTPP Flow Data." Federal Highway Administration (FHWA) and AASHTO Standing Committee on Planning Census Transportation Planning Package (CTPP) Status Report. October 2019. <https://perma.cc/9FVM-WB83>
- O5. **Karner, A.** "Using GIS to Examine Social Equity Impacts in Transportation Systems." Federal Highway Administration (FHWA) Newsletter on GIS in Transportation. August 2019. <https://perma.cc/THT6-JWD7>
- O4. **Karner, A.** "MARTA Rebranding Rooted in a Racialized History of Public Transit." *Atlanta Studies*, April 23, 2019, <https://doi.org/10.18737/atls20190423>.

- O3. **Karner, A.** and M. Stępniaak. “Exploratory Topic 2: Places where People Live, Work, and Play.” In Transportation Research Board Conference Proceedings 56: Socioeconomic Impacts of Connected and Automated Vehicles. Brussels, Belgium. June 26-27, 2018.
- O2. Marcantonio, R. and **A. Karner**. “Social equity in transportation planning: A community-based framework.” *Progressive Planning*, 2016. 206: 38-41.
- O1. Marcantonio, R. and **A. Karner**. “Disadvantaged Communities Teach Regional Planners a Lesson in Equitable and Sustainable Development.” *Poverty & Race*, 2014. 23(1): 5-12.

Research reports

- RR10. Rowangould, D., **A. Karner**, Y. Wu,^S O. Igbinedion,^S and J. London. “Development of Fine-Grained Spatial Resolution for an Integrated Health Impacts Assessment Tool for the Sacramento Region.” National Center for Sustainable Transportation. University of California, Davis. Research report, 2019.
- RR9. **Karner, A.**, D. Rowangould, Y. Wu,^S O. Igbinedion,^S and J. London. “Development and Application of an Integrated Health Impacts Assessment Tool for the Sacramento Region.” National Center for Sustainable Transportation. University of California, Davis. Research report, 2017.
- RR8. Kumar, A., C. Ross, and **A. Karner**. “Crowdsourced Social Media Monitoring System Development.” Georgia Department of Transportation Research Report No. 16-14. Atlanta, GA. 2017.
- RR7. Partnership for Southern Equity. “Opportunity Deferred: Race, Transportation, and the Future of Metropolitan Atlanta.” Atlanta, GA. 2016. [*Lead study author with co-author Richard Duckworth.*^S]
- RR6. **Karner, A.**, D. Rowangould, and J. London. “We Can Get There from Here: New Directions for Transportation Equity.” National Center for Sustainable Transportation, University of California, Davis. Whitepaper, 2016.
- RR5. **Karner, A.** and C. Benner. “Job Growth, Housing Affordability, and Commuting in The Bay Area.” A report prepared for the Bay Area Regional Prosperity Plan Housing Working Group, 2015.
- RR4. Chuang, W-C., **A. Karner**, N. Selover, D. Hondula, N. Chhetri, A. Middel, M. Roach, and B. Dufour. “Arizona Extreme Weather, Climate and Health Profile Report.” A report prepared for Arizona Department of Health Services and the United States Centers for Disease Control and Prevention Climate-Ready States and Cities Initiative, 2015.
- RR3. **Karner, A.**, A. Golub, and C. Chavis. “Understanding Regional Disparities in Public Transit Performance Using Realtime Transit Data.” National Transportation Center at Maryland, Research Report NTC2015-MU-R-1, 2016.
- RR2. Gould, G. and **A. Karner**. “Modeling Bicycle Facility Operation: A Cellular Automaton Approach.” Institute of Transportation Studies, University of California, Davis, Research Report UCD-ITS-RR-09-10, 2009.
- RR1. Silvis, J., W. Leighty, and **A. Karner**, “Folk Quantification of Transportation Energy: An Initial Investigation of Perceptions of Automobile Energy Use.” Institute of Transportation Studies, University of California, Davis, Research Report UCD-ITS-RR-07-22, 2007.

Op-ed contributions and letters to the editor

- **Karner, A.** “Thoughts on Prop J.” Letter to the editor. The Austin Chronicle. November 1, 2018. <https://www.austinchronicle.com/feedback/2018-11-01/2366069/> [<https://perma.cc/M7FV-MF7D>]
- **Karner, A.,** J. Hirsch, R. Rosenberger, and J. Woo. “Smart cities for whom? Leveraging technology for an inclusive and just Atlanta.” Op-ed in Saporta Report, December 10, 2017. <https://saportareport.com/smart-cities-leveraging-technology-inclusive-just-atlanta/> [<https://perma.cc/373K-45TF>]
- **Karner, A.** “Don’t miss (or overlook) the bus.” Op-ed in Creative Loafing (Atlanta alternative weekly magazine), November 24-30, 2016. [https://creativeloafing.com/content-267636-Don't-miss-\(or-overlook\)-the-bus](https://creativeloafing.com/content-267636-Don't-miss-(or-overlook)-the-bus) [<https://perma.cc/2GTL-UN6V>]
- **Karner, A.** and C. Benner. “More market-rate units won’t protect low-income renters.” Invited contribution to Washington Post Wonkblog on the topic “How to make expensive cities affordable for everyone again.” <https://www.washingtonpost.com/news/wonk/wp/2016/02/19/how-to-make-expensive-cities-affordable-for-everyone-again/> [<https://perma.cc/M326-PPM6>]
- **Karner, A.** and C. Benner. “Bay Area not meeting its affordable housing needs.” Op-ed in Oakland Tribune, June 29, 2015. [<https://perma.cc/H5BS-APJG>]
- **Karner, A.** “Can California’s San Joaquin Valley Conquer Urban Sprawl?” Op-ed in Zocalo Public Square, July 2, 2014. (Also ran in the Fresno Bee.) <https://www.zocalopublicsquare.org/2014/07/01/can-californias-san-joaquin-valley-conquer-urban-sprawl/ideas/nexus/> [<https://perma.cc/L28M-NWCM>]

MEDIA COVERAGE

1. J. George. “Metro Ridership Increases as Agency Begins Restoring Service to Pre-pandemic Levels.” Washington Post. August 22, 2020. https://www.washingtonpost.com/local/trafficandcommuting/metro-ridership-increases-as-agency-begins-restoring-service-to-prepandemic-levels/2020/08/22/b8bdcbc6-e331-11ea-8181-606e603bb1c4_story.html [<https://perma.cc/HSK6-N2LJ>]
2. Z. Sullivan. “Sacramento Region to Launch Free Transit Pass for Youth.” Next City. September 25, 2019. <https://nextcity.org/daily/entry/sacramento-region-to-launch-free-transit-pass-for-youth> [<https://perma.cc/AQW9-4RVS>]
3. Austin Chronicle. “City Council to Continue Considering Scooters in August.” May 31, 2019. <https://www.austinchronicle.com/news/2019-05-31/city-council-to-continue-considering-scooters-in-august/> [<https://perma.cc/8CAJ-6UTF>]
4. C. Cataneo. “Performance of a Plan: A Conversation with Alex Karner.” Take Shape Magazine No. 2, 2018.
5. Austin Community Impact Newspaper. “Vision Zero pushes for alternatives to Austin’s car culture.” October 25, 2018. <https://communityimpact.com/austin/central-austin/editors-pick/2018/10/25/vision-zero-pushes-for-alternatives-to-austins-car-culture/>
6. The Urban Edge (Blog for Rice University’s Kinder Institute for Urban Research). “Houston Metro's Next Steps Could Have Big Impacts, But for Whom Depends on Final Funding and

- Plans.” August 6, 2018. <https://kinder.rice.edu/2018/08/06/houston-metros-next-steps-could-have-big-impacts-whom-depends-final-funding-and-plans> [https://perma.cc/3RHU-B72H]
7. Marketplace (National NPR Program). “In an effort to boost ridership, Atlanta is rebranding its trains and buses.” June 6, 2018. <https://www.marketplace.org/2018/06/06/economy/effort-boost-ridership-atlanta-rebranding-its-trains-and-buses> [https://perma.cc/5Y3C-A4P8]
 8. P. Simek. “Dallas’ Transit Woes Share in Familiar History of Segregation Urbanism.” D Magazine. February 9, 2017. <http://www.dmagazine.com/frontburner/2017/02/dallas-transit-woes-share-in-familiar-history-of-segregation-urbanism/> [https://perma.cc/TX9D-E32G]
 9. A. Schmitt. “How Racial Discrimination Shaped Atlanta’s Transportation Mess.” Streetsblog USA. February 8, 2017. <https://usa.streetsblog.org/2017/02/08/how-racial-discrimination-shaped-atlantas-transportation-mess/> [https://perma.cc/279V-GZ75]
 10. The Urban Edge (Blog for Rice University’s Kinder Institute for Urban Research). “New Study Examines How Historic Racism Shaped Atlanta’s Transportation Network.” February 8, 2017. http://urbanedge.blogs.rice.edu/2017/02/08/new-study-examines-how-historic-racism-shaped-atlantas-transportation-network/#.WJ-Eq_krLzQ [https://perma.cc/95FW-3JM6]
 11. Atlanta Black Star. “Atlanta CEO Offers Funding Strategies Aimed at Expanding Transportation, Reducing Gentrification.” January 26, 2017. <http://atlantablackstar.com/2017/01/26/atlanta-ceo-offers-funding-strategies-aimed-expanding-transportation-reducing-gentrification/> [https://perma.cc/93T5-7GLF]
 12. Georgia Public Broadcasting. “How to Make Atlanta a Bicycle Friendly City.” December 21, 2016. <http://gpbnews.org/post/how-make-atlanta-bicycle-friendly-city> [https://perma.cc/39ZQ-97NK]
 13. Georgia Public Broadcasting. “Atlanta Affordable Housing Law Gaining Ground in Other Cities.” August 30, 2016. <http://news.wabe.org/post/atlanta-affordable-housing-law-gaining-ground-other-cities> [https://perma.cc/47MN-YJN3]
 14. SaportaReport. “Fallout over Lack of Affordable Housing along BeltLine.” September 27, 2016. <https://saportareport.com/fallout-lack-affordable-housing-along-beltline-includes-gravels-tweet/> [https://perma.cc/GP62-PRJW]
 15. Georgia Public Broadcasting. “Is the Atlanta BeltLine in Danger of Being Too Popular?” June 30, 2016. <http://gpbnews.org/post/atlanta-beltline-danger-being-too-popular> [https://perma.cc/Q9RY-W3LX]
 16. Yale Climate Connections. “Self-transportation in a Changing Climate.” March 21, 2016. <http://www.yaleclimateconnections.org/2016/03/self-transportation-in-a-changing-climate/> [https://perma.cc/BXC9-AW9Y]
 17. CityLab. “Why Boston’s Late-Night Service Cuts could be a Civil Rights Violation.” March 18, 2016. <http://www.citylab.com/cityfixer/2016/03/why-bostons-last-night-service-cuts-could-be-a-civil-rights-violation/474321/> [https://perma.cc/3ZEA-KRWL]
 18. NextCity. “Boston Bike Café Has Transportation Equity on the Menu.” December 24, 2015. <https://nextcity.org/daily/entry/boston-dorchester-bike-shop-cafe-sip-and-spoke-bike-kitchen> [https://perma.cc/5J6H-2AYS]
 19. Streetsblog. “Study: Civil Rights Protections Lack Teeth When it comes to Transportation.” February 14, 2014. <http://usa.streetsblog.org/2014/02/14/study-civil-rights-protections-lack-teeth-when-it-comes-to-transportation/> [https://perma.cc/BA2Q-DYQD]
 20. Marin Independent Journal. “Report: Plan Bay Area Would Reduce Bay Area’s Greenhouse Gas Emissions, but Alternatives would Cut Even More.” May 25, 2013.

<https://www.marini.com/2013/05/25/report-plan-bay-area-would-reduce-bay-areas-greenhouse-gas-emissions-but-alternative-would-cut-even-more/> [<https://perma.cc/DE9Y-2Q5R>]

SPONSORED RESEARCH

Dr. Karner has been principal investigator or co-principal investigator on grants and contracts whose value exceeds \$1.8 million.

2020

1. Sutter Health. Evaluating the Effectiveness of a Free Youth Transit Pass in the Sacramento Region (\$80,000, PI).
2. The University of Texas at Austin Snell Endowment. Evaluating the Equity Implications of Bus Network Redesigns (\$25,000, PI).

2019

3. National Cooperative Highway Research Program (NCHRP). Accessibility Measures in Practice: Guidance for Transportation Agencies (\$500,000, PI, with Co-PIs Ram Pendyala, Arizona State University, and Kara Kockelman, Texas).
4. The University of Texas at Austin Snell Endowment. Sacramento Free Transit Pass Survey (\$25,000, PI).
5. Texas Department of Transportation (TxDOT). Identify Risk Factors that Lead to Increase in Fatal Pedestrian Crashes and Develop Countermeasures to Reverse Trend (\$361,000, Co-PI with PI Kara Kockelman, Texas).

2018

6. The University of Texas at Austin Snell Endowment. Providing Sufficient Transportation Access: A Literature Review (\$25,000, PI).

2017

7. Federal Transit Administration. Multimodal Public Transportation System Connectivity Performance Measures: Developing Transformational Metrics with Community Engagement (\$300,000, PI, with Co-PI Ram Pendyala, Arizona State University).
8. National Center for Sustainable Transportation. Development of Fine-Grained Spatial Resolution for an Integrated Health Impacts Assessment Tool (\$70,000, Co-PI with PI Jonathan London, University of California, Davis).
9. California Endowment. BEST: Building equitable student transit, Phase II (\$80,000, Co-PI with PI Nancy Erbstein, University of California, Davis).

2016

10. US Department of Transportation. Teaching Old Models New Tricks (TOMNET). Tier 1 University Transportation Center (\$7.5 million, Georgia Tech Key Personnel include Dr. Karner. Center Director Ram Pendyala, Arizona State University and Assoc. Director Patricia Mokhtarian, Georgia Tech).
11. National Center for Sustainable Transportation. Development and Application of an Integrated Health Impacts Assessment Tool for Transportation Plans in Sacramento County (\$64,000, Co-PI, with PI Jonathan London, University of California, Davis).

12. Georgia Department of Transportation. Crowdsourced social media monitoring system development (\$95,000, Co-PI, with PI Amit Kumar, Georgia Tech and Co-PI Catherine Ross, Georgia Tech).
13. Georgia Tech, College of Design Faculty Development Grant. Affordable housing and sustainable commutes: Bay Area employee survey (\$9,417, PI).
14. California Endowment. BEST: Building equitable student transit (\$70,000, PI with Co-PI Nancy Erbstein, University of California, Davis).

2015

21. National Center for Sustainable Transportation (National University Transportation Center headed by University of California, Davis). Transportation equity whitepaper (\$25,000, Co-PI, with PI Jonathan London, University of California, Davis and Co-PI Dana Rowangould, Consultant).
22. National Center for Strategic Transportation Policies, Investments, and Decisions (National University Transportation Center headed by University of Maryland) Understanding regional disparities in public transit performance using realtime transit data (\$50,000, Co-PI with PI Aaron Golub, Arizona State University and Co-PI Celeste Chavis, Morgan State University).
23. US Department of Housing and Urban Development and Metropolitan Transportation Commission. Investigating the impacts of high-wage job growth on housing demand and affordability (\$40,000, Co-PI with PI Chris Benner, University of California, Davis).

GRANTS AND AWARDS

- 2020:** Commencement Faculty Award for Outstanding Scholarship, School of Architecture, The University of Texas at Austin
- 2019:** Summer Research Assignment, The University of Texas at Austin (declined)
- 2018:** Diversity Mentoring Fellowship, The University of Texas at Austin
- 2017:** Outstanding Faculty Award, College of Design, Georgia Institute of Technology
Awarded annually to recognize outstanding achievement in the areas of teaching, scholarship, creative activity, and service by a tenured or tenure-track faculty member in the College of Design.
- 2012:** University of California Center for Collaborative Research for an Equitable California Travel Award (\$500)
- 2011-2012:** University of California, Davis Sustainable Transportation Center Outstanding Student of the Year (awarded through the United States Department of Transportation's University Transportation Centers Program)
- 2011-2012:** University of California, Davis, Sustainable Transportation Center Dissertation Fellowship (\$21,500)
- 2010-2011:** Social Sciences and Humanities Research Council of Canada (SSHRC) Doctoral Fellowship (\$20,000)
- 2007-2008:** Natural Sciences and Engineering Research Council of Canada (NSERC) Post Graduate Scholarship - Masters (\$17,300)
- 2006:** SSHRC Canada Graduate Scholarship - Masters (\$17,500, awarded but declined)
- 2005:** University of Toronto Department of Civil Engineering Faculty Undergraduate Summer Research Fellowship (\$4,450)

INVITED PRESENTATIONS

Presentation at the 99th Transportation Research Board Annual Meeting. “Regional Equity Analysis Frameworks and State of the Practice in the United States.” Washington, DC. January 12-16, 2020.

Panelist at the Federal Highway Administration/Transportation Research Board Joint Expert Meeting on “Emerging Trends: Technology Opportunities for Regional Mobility.” Washington, DC. November 18, 2019.

Invited roundtable participant. “Transport Justice in Theory and Practice: How have they Evolved During the Past Decade?” Association of Collegiate Schools of Planning 59th Annual Conference. Portland, OR. Greenville, SC. October 24-27, 2019.

Panelist and presenter at the Texas A&M Transportation Institute Pedestrian Safety Forum. “A Brief History of Transportation Equity.” Austin, TX. August 22, 2019.

Panelist at The University of Texas at Austin’s undergraduate Urban Studies Society event on dockless mobility. Austin, TX. April 10, 2019.

Presentation at the CityForum weekly seminar at The University of Texas at Austin. “Towards Meaningful Participation: Participatory Budgeting and The Promise of Community Control.” Austin, TX. April 5, 2019.

Presentation at Lunch U.P. seminar series. “Towards Meaningful Participation: Participatory Budgeting and The Promise of Community Control.” Taubman College of Architecture and Urban Planning, University of Michigan. Ann Arbor, MI. February 28, 2019.

Panelist at the Global Symposium on Connected and Automated Vehicles and Infrastructure. Session on Policy and Social Justice. Ann Arbor, MI. February 27, 2019.

Webinar presentation for the Travel Model Improvement Program (TMIP). “Equity Analysis Data, Measures, And Methods for MPOs And Transit Agencies.” February 15, 2019.
[\[https://tmip.org/content/tmip-webinar-equity-analysis-data-measures-and-methods-mpos-and-transit-agencies\]](https://tmip.org/content/tmip-webinar-equity-analysis-data-measures-and-methods-mpos-and-transit-agencies)

Presentation at the Texas A&M Transportation Institute. “Transportation Equity Practice and Research.” Austin, TX. December 18, 2018.

Panelist at LINK Houston’s report release for “Equity in Transit 2018.” Houston, TX. November 27, 2018.

Presentation in the Civil Engineering Sustainable Systems Seminar. “Social Sustainability in Transportation.” Austin, TX. October 17, 2018.

Webinar presentation for the Institute for Transportation Engineers (ITE) Learning Hub webinar series. “Integrated Transport and Health Impacts Model (ITHIM) Sacramento Equity Analysis Tool.” July 17, 2018.

Presentation and panelist at the Women’s Transportation Seminar. “It Takes Two: Working Together to Improve Transportation Outcomes.” Austin, TX. April 13, 2018.

Presentation and panelist at the United States Department of Transportation Civil Rights Virtual Symposium—Speaking with One Voice: Gaining the Competitive Edge. “Achieving Transportation Equity through Meaningful Public Engagement.” March 13-15, 2018.

Presentation and panelist at the Texas Law Community Development and Environmental Justice Lawyering Project “One Year in: Fostering our Roles as Community Development Attorneys.” Houston, TX. February 13, 2018.

Presentation at the Developmental Area Seminar, Department of Psychology, The University of Texas at Austin. “Public Transit and Public Schools: Making The Connection In Two California School Districts.” Austin, TX. February 12, 2018.

Presentation at the CityForum weekly seminar at The University of Texas at Austin. “‘All of the Above’: Transportation Equity Law, Practice, and Advocacy.” Austin, TX. January 19, 2018.

Presenter and panelist at the Northeastern Pennsylvania (NEPA) Equitable Transit Summit. Scranton, PA. October 17, 2017.

Presentation at TransitCenter. “Contemporary Research on Transportation Equity.” New York, March 21, 2017.

Presentation at the American Institute of Certified Planners (AICP) Exam Preparation Short Course. Plan Making and Implementation #1. Atlanta, GA. January 20, 2017.

Keynote presentation at workshop on Race, Space and Opportunity: A Tale of Two Regions convened by Partnership for Southern Equity. Atlanta, GA. January 18, 2017.

Invited roundtable participant. “How big data will change planning.” Association of Collegiate Schools of Planning 56th Annual Conference. Portland, OR. November 2 – 6, 2016.

Presentation at the Housing Land Advocates 2016 Conference. “Jobs-Housing Fit: Linking Housing Affordability and Local Wages.” Portland, OR. November 4, 2016.

Presentation at the United States Department of Transportation National Summit on Transportation & Opportunity. “Achieving Transportation Equity through Meaningful Public Engagement.” Washington, DC. September 29, 2016.

Presentation at Kittelson & Associates, Inc. “Defining and Measuring Public Transit Service Equity.” Boston, MA. July 7, 2016.

Presentation at workshop on Race & Transportation in Atlanta convened by Partnership for Southern Equity. “Opportunity Deferred: Race & Transportation in the Atlanta Region.” Atlanta, GA. June 23, 2016.

Invited panel participant. “Real-World Applications of the Integrated Transport and Health Impacts (ITHIM) Model.” National Center for Sustainable Transportation workshop on ITHIM. Sacramento, CA. June 20, 2016.

Invited panel participant. “Resilience and Social Sustainability.” Integrated Network for Social Sustainability (INSS) Annual Conference. Atlanta, GA. June 9, 2016.

Presentation at the Atlanta Regional Commission. “Contemporary Research on Transportation Equity.” Workshop on Performance Measures and Equity. Atlanta, GA. January 27, 2016.

Presentation at the Atlanta Regional Commission. “Performance Assessment and Integrated Planning.” Community Planning Academy. Atlanta, GA. November 16, 2015.

Invited panel participant. Book launch for “What Counts: Harnessing Data for America’s Communities.” Davis, CA. February 13, 2015.

Presentation at the University of California, Davis. “Defining and Measuring Equity in Public Transit Service Provision.” ITS-Davis Weekly Seminar Series. Davis, CA. January 23, 2015.

Presentation at Arizona State University. “Defining and Measuring Equity in Public Transit Service Provision.” ASU Transportation Seminar. Tempe, AZ. October 3, 2014.

Presentation at the United States Department of Transportation Civil Rights Virtual Symposium—Speaking with One Voice. “Civil rights guidance and equity analysis methods for regional transportation plans: A critical review of literature and practice.” February 4-6, 2014.

Presentation at the Ditching Dirty Diesel Collaborative Public Health Forum. “Near-Roadway Air Quality Research and Equity, Environment and Jobs Scenario Comments.” Oakland, CA. March 26, 2012.

CONFERENCE PRESENTATIONS

Karner, A. “Spotlight On: Redistributing Power Through Engagement: Arnstein’s Legacy” Paper presentation and panel discussion at the National Planning Conference. Cancelled. Houston, TX. April 25-28, 2020.

Karner, A. and K. Brower Brown. “Participatory Budgeting’s Promise and Limits in Fresno: Insights from Labor Organizing Scholarship.” Paper presentation at the American Association of Geographers Annual Meeting. Virtual. April 6-10, 2020.

Karner, A. “People-Focused and Near-Term Public Transit Performance Analysis.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

Karner, A. and K. Levine. “Beyond Quantitative Analysis: Examining Equity Practices at US Public Transit Agencies.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

Karner, A. and R. Pereira. “Pitfalls in the Measurement of Transport Inequalities and Transport Poverty.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

K. Levine and **A. Karner.** “Measuring Access to Public Transit for People with Disabilities using Detailed Sidewalk Data.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

Alcorn, L. and **A. Karner.** “Integrating Formal and Informal Transit into One Hybrid Passenger Transport System in Lagos, Nigeria.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

Bierbaum, A., **A. Karner,** and J. Barajas. “Transportation Equity, Education Equity, and School Choice: Making the Connections.” Paper presentation at the 99th Transportation Research Board Annual Meeting. Washington, DC. January 12-16, 2020.

Karner, A., K. Brower-Brown, R. Marcantonio, and L. Alcorn. “Participatory Budgeting in Fresno, California: The Promise of Community Control And The Limits of Arnstein's Ladder.” Paper presentation at the 59th Annual Conference of the Association of Collegiate Schools of Planning. Greenville, SC. October 24-27, 2019.

Azhar, A. and **A. Karner.** “Opportunity without Access: Assessing Conflicting LIHTC Siting Strategies.” Paper presentation at the 59th Annual Conference of the Association of Collegiate Schools of Planning. Greenville, SC. October 24-27, 2019.

Karner, A. “Access to Opportunities and User Benefits in Public Transit Performance Assessment.” Paper presentation at the 17th TRB National Planning Applications Conference. Portland, OR. June 2-5, 2019.

Wu, Yizheng., O. Igbinedion, D. Rowangould, J. London, and **A. Karner.** “Modeling Neighborhood-Level Health Outcomes of Transportation Plans.” Paper presentation at the 2019 Active Living Conference. Charleston, SC. February 17-20, 2019.

Karner, A. “Investigating the Effects of Public Transit Service Changes Using Access to Opportunities and Revealed Behavior Measures.” Paper presentation at the 98th Annual Meeting of the Transportation Research Board. Washington, DC. January 13-17, 2019.

Wang, F., C. Ross, and **A. Karner**. “Understanding the Influence of Mobility-as-a-Service (MaaS) on Job Accessibility and Transportation Equity.” Paper presentation at the 98th Annual Meeting of the Transportation Research Board. Washington, DC. January 13-17, 2019.

Amekudzi-Kennedy, A. B. Woodall, **A. Karner**, A. Akosa, H. Franklin, J.L Simao, H. Gudmundsson, J. Smith-Colin “Institutional Arrangements, Transportation System Investments and Socio-Economic Outcomes: Affecting the Development of Shared Regional Prosperity.” Paper presentation at the 98th Annual Meeting of the Transportation Research Board. Washington, DC. January 13-17, 2019.

Karner, A. “Community-Engaged Performance Measures for Public Transit Accessibility and Equity Analysis.” Paper presentation at the 58th Annual Conference of the Association of Collegiate Schools of Planning. Buffalo, NY. October 25-28, 2018.

Kumar, A., C. Ross, and **A. Karner**. “Understanding the Role of Online Social Networks and Crowdsourced Data for Traffic and Incident Management.” Paper presentation at the 58th Annual Conference of the Association of Collegiate Schools of Planning. Buffalo, NY. October 25-28, 2018.

Karner, A. and A. Golub. “Assessing the Equity Impacts of a Transportation Improvement Program.” Paper presentation at the 97th Annual Meeting of the Transportation Research Board. Washington, DC. January 7-11, 2018.

Kent, M. and **A. Karner**. “Prioritizing Low-Stress and Equitable Bicycle Infrastructure Using A Novel Accessibility Measure.” Paper presentation at the 97th Annual Meeting of the Transportation Research Board. Washington, DC. January 7-11, 2018.

Kumar, A., C. Ross, **A. Karner**, and R. Katyal. “Traffic and Incident Management Using Crowdsourced Data: Challenges and Lessons Learned from Practice.” Paper presentation at the 97th Annual Meeting of the Transportation Research Board. Washington, DC. January 7-11, 2018.

Wu, Y., D. Rowangould, J. London, and **A. Karner**. “Modeling Health Equity in Active Transportation Planning.” Paper presentation at the 97th Annual Meeting of the Transportation Research Board. Washington, DC. January 7-11, 2018.

Marcantonio, R., A. Golub, **A. Karner**, and L.N. Dyble. “Realizing the Potential of Equity Analyses of Regional Transportation Plans: Law, Practice, and Proposals for Reform.” Paper presentation at the 97th Annual Meeting of the Transportation Research Board. Washington, DC. January 7-11, 2018.

Karner, A. and N. Erbstein. “Public Schools, Transit Accessibility, and Student Performance in Two California School Districts.” Paper presentation at the 57th Annual Conference of the Association of Collegiate Schools of Planning. Denver, CO. October 12-15, 2017.

Carpenter, A., **A. Karner**, and R. Duckworth. “Mobility Matters: Investigating the Link between Public Transportation and Income Inequality in Major U.S. Cities.” Paper presentation at the 47th Urban Affairs Association Conference. Minneapolis, MN. April 19-22, 2017.

Carpenter, A., **A. Karner**, and R. Duckworth. “Mobility Matters: Investigating the Link between Public Transportation and Income Inequality in Major U.S. Cities.” Paper presentation at the 2016 Savannah State University Urban Planning Conference. Savannah, GA. March 31, 2017.

Karner, A. “Transportation Equity and the Geography of Opportunity: Quantifying Needs and Gaps in Metropolitan Atlanta.” Paper presentation at the 96th Annual Meeting of the Transportation Research Board. Washington, DC. January 8-12, 2017.

Karner, A., A. Golub, and C. Chavis. “Assessing Regional Disparities in Public Transit Performance with Archived General Transit Feed Specification Real-Time Data.” Paper presentation at the 96th Annual Meeting of the Transportation Research Board. Washington, DC. January 8-12, 2017.

Karner, A. and R. Duckworth. “‘Pray for Transit’: Seeking Transportation Justice in Clayton County, Georgia.” Paper presentation at the 96th Annual Meeting of the Transportation Research Board. Washington, DC. January 8-12, 2017.

Zhong, Q., **A. Karner**, A. Golub, and M. Kuby. “A Multiobjective Optimization Model for Locating Affordable Housing Investments While Maximizing Accessibility to Jobs by Public Transportation.” Paper presentation at the 96th Annual Meeting of the Transportation Research Board. Washington, DC. January 8-12, 2017.

Karner, A., A. Golub, and C. Chavis. “Assessing Disparities in Regional Public Transit Performance Using Realtime Data.” Paper presentation at the 56th Annual Conference of the Association of Collegiate Schools of Planning. Portland, OR. November 3-6, 2016.

Ross, C., **A. Karner**, P. Hylton, E. Sperling, and S. Guhathakurta. “Quality of Life Benefits of Urban Trails: Analysis of the Atlanta BeltLine.” Paper presentation at the 12th International Urban Planning and Environment Association Symposium. Lisbon, Portugal. May 31 – June 3, 2016.

Hylton, P., C. Ross, E. Sperling, and **A. Karner**. “Urban Revitalization: Changing Atlanta’s Land Use Intensities.” Paper presentation at the 12th International Urban Planning and Environment Association Symposium. Lisbon, Portugal. May 31 – June 3, 2016.

Karner, A., C. Ross, P. Hylton, R. Duckworth, and S. Guhathakurta. “Public Transit Equity and the Geography of Opportunity in Atlanta.” Paper presentation at the 12th International Urban Planning and Environment Association Symposium. Lisbon, Portugal. May 31 – June 3, 2016.

Karner, A. and R. Duckworth. “Expanding Transit, Growing Opportunity: Creating Local Transit Service in Clayton County, Georgia.” Paper presentation at the 2016 Savannah State University Urban Planning Conference. Savannah, GA. April 1-2, 2016.

Karner, A. “Assessing Regional Disparities in Transit Service Using Realtime Data.” Paper presentation at the 2016 Savannah State University Urban Planning Conference. Savannah, GA. April 1-2, 2016.

Karner, A., D. Hondula, and J. Vanos. “Heat Exposure During Non-Motorized Travel: Implications for Transportation Policy Under Climate Change.” Paper presentation at the Annual Meeting of the Association of American Geographers. San Francisco, CA. March 29-April 2, 2016.

Karner, A. and T. Welch. “Rethinking Supply and Demand in Public Transit Accessibility Studies.” Paper presentation at the 46th Urban Affairs Association Conference. San Diego, CA. March 16-19, 2016.

Golub, A., **A. Karner,** and R. Marcantonio. “Observations from The Rise of a Regional Transportation Justice Coalition in The San Francisco Bay Area.” Paper presentation at the 46th Urban Affairs Association Conference. San Diego, CA. March 16-19, 2016.

Karner, A., M. Kuby, and A. Golub. “Modeling Transit Ridership Demographics for use in Equity Analysis.” Paper presentation at the 95th Annual Meeting of the Transportation Research Board. Washington, DC. January 10-14, 2016.

Karner, A. and L. Sagaris, “Testing A New Approach to Planning Sustainable Transport Using Data From Metropolitan Santiago de Chile and the San Francisco Bay Area.” Paper presentation at the 95th Annual Meeting of the Transportation Research Board. Washington, DC. January 10-14, 2016.

Karner, A. and C. Benner, “The Convergence of Social Equity and Environmental Sustainability: Jobs-Housing Fit and Commute Distance.” Paper presentation at the 95th Annual Meeting of the Transportation Research Board. Washington, DC. January 10-14, 2016.

Karner, A. and A. Golub. “Bay Area Transportation Justice Advocacy: Two Decades of Struggle and Innovation.” Paper presented at the Association of Collegiate Schools of Planning 55th Annual Conference. Houston, TX. October 22-25, 2015.

Karner, A. “Development of Highly Resolved Spatial and Temporal Metrics of Public Transit Accessibility and their Application to Service Equity Analysis.” Paper presented at the 94th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2015.

Karner, A. and A. Golub. “Comparing Two Common Approaches to Public Transit Service Equity Evaluation.” Paper presented at the 94th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2015.

Karner, A. and D. Niemeier. “Effects of Scale and Scope in Modeling and Decision Making.” Presentation in Workshop on Integrated Land-Use, Travel Demand Air Quality, and Exposure

Modeling: The Future of Regional Transportation Planning? At the 94th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2015.

Rowangould, D., **A. Karner**, and J. London. "Identifying Environmental Justice Communities for Transportation Analysis." Paper presented at the 94th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2015.

Karner, A. "Assessing Equity in Public Transportation Planning and Decision Making." Paper presented at the 52nd Paving and Transportation Conference. Albuquerque, NM. January 5-6, 2015.

Karner, A., D. Hondula, and J. Vanos. "Connecting Transportation Scenarios and Extreme Heat Exposure In Urban Areas." Paper presented at the 95th American Meteorological Society Annual Meeting. Phoenix, AZ. January 4-8, 2015.

Karner, A. "Towards Equitable Public Transit Decision Making" Paper presented at the Association of Collegiate Schools of Planning 54th Annual Conference. Philadelphia, PA. October 30-November 2, 2014.

Karner, A. and C. Benner. "A Jobs-Housing Fit Metric and its Relationship to Vehicle-Miles Traveled." Paper presented at the New Partners for Smart Growth Conference. Denver, CO. February 13-15, 2014.

Niemeier, D., G. Rowangould, **A. Karner**, and D. Rowangould. "Limitations to Current Knowledge." Presentation in Workshop on The Next 50 Years in Travel Analysis: What We Don't Know but Need to Know at the 93rd Annual Meeting of the Transportation Research Board. Washington, DC. January 12-16, 2014.

Pasch, A., S. Bai, **A. Karner**, D. Eisinger, H. Hafner, L. Tidd, A. Polidori, and D. Niemeier. "Background and Ambient Near-Road PM Concentrations: Insights and Analysis Strategies." Presentation in Workshop on Particulate Matter Hot Spot Analyses: Research and Applications, Part 2 at the 93rd Annual Meeting of the Transportation Research Board. Washington, DC. January 12-16, 2014.

Karner, A. and J. London. "Rural Communities and Transportation Equity in California's San Joaquin Valley." Paper presented at the 93rd Annual Meeting of the Transportation Research Board. Washington, DC. January 12-16, 2014.

Karner, A., "Integrating Health into Regional Planning: Sketching a Path Forward." Paper presented at the 141st Annual Meeting of the American Public Health Association. Boston, MA. November 2-6, 2013.

Karner, A. and D. Niemeier, "A Review of Civil Rights Guidance and Equity Analysis Methods for Regional Transportation Plans." Paper presented at the 92nd Annual Meeting of the Transportation Research Board. Washington, DC. January 13-17, 2013.

Karner, A. and D. Niemeier. “Innovations in the Equity Analysis of Regional Transportation Plans.” Paper presented at the 92nd Annual Meeting of the Transportation Research Board. Washington, DC. January 13-17, 2013.

Karner, A., “Innovations in Regional Transportation Equity Analysis.” Presented at the International Conference on Inequality and Sustainability. Medford, MA, November 9-10, 2012.

Karner, A., “Transportation Equity Analysis for Activity-Based Travel Demand Models.” Presented at the University of California Transportation Center Student Conference. Davis, CA. April 20, 2012.

Karner, A., “Evaluating Public Participation in California’s Global Warming Solutions Act.” Presented at the 2nd Annual Dimensions of Political Ecology Conference. Lexington, KY. April 13-15, 2012.

Karner, A. and D. Niemeier, “The Region or the State? California Transportation Planning, 1967-1977.” Transportation History, Session 303. Paper presented at the 91st Annual Meeting of the Transportation Research Board. Washington, DC. January 22-26, 2012.

Karner, A., “Advanced Models, Advancing Equity: Harnessing Innovations in Forecasting Travel Demand.” Presented during UC Davis College of Engineering visit by Dr. Chuck Vest, President of the National Academy of Engineering. Davis, CA. November 30, 2011.

Karner, A. and D. Niemeier, “Translating Policy to Practice: An Interdisciplinary Investigation of Transportation Planning.” Presented at the 13th Transportation Research Board National Planning Applications Conference. Reno, NV. May 8-12, 2011.

Karner, A. and D. Rowan, “Moving Toward Equity: The Ongoing Struggle for Environmental Justice in California.” Panel organizer and presenter. Interdisciplinary Graduate and Professional Symposium. Davis, CA. April 21-23, 2011.

Karner, A. and D. Niemeier, “Transportation Spending Under the American Recovery and Reinvestment Act in California.” Taxation and Finance, Session 561. Paper presented at the 90th Annual Meeting of the Transportation Research Board. Washington, DC. January 23-27, 2011.

Karner, A., D. Eisinger, and D. Niemeier, “Near-Road Air Quality: Findings from Real World Data.” Paper presented at the Coordinating Research Council Mobile Source Air Toxics Workshop. Sacramento, CA. November 30-December 2, 2010.

Karner, A., D. Eisinger, and D. Niemeier, “Near-Road Air Quality: Findings from Real World Data.” Paper presented at the Air & Waste Management Association Symposium on Air Quality Measurement Methods and Technology. Los Angeles, CA. November 2-4, 2010.

Rowan, D., **A. Karner**, and D. Niemeier, “MPG Illusions and CAFE Distortions: When Even the Transport Experts Have Trouble.” Energy and Greenhouse Gas Emissions from the

Transportation Sector, Session 439. Paper presented at the 89th Annual Meeting of the Transportation Research Board. Washington, DC. January 10-14, 2010.

Karner, A., D. Rowan, J. London, J. Sze, and D. Niemeier, “Environmental Justice, Gender, and Conflict in California Climate Policy.” Paper presented at the Fourth International Conference on Women’s Issues in Transportation. Irvine, CA. October 27-30, 2009.

Karner, A., D. Eisinger, S. Bai, and D. Niemeier, “Mitigating Diesel Truck Impacts in Environmental Justice Communities: Transportation Planning and Air Quality in Barrio Logan, San Diego.” Measuring Equity, Session 586. Paper presented at the 88th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2009.

Gould, G. and **A. Karner,** “Modeling Bicycle Facility Operation: A Cellular Automaton Approach.” Factors Affecting Bicycle Use and Mode Choice, Session 708. Paper presented at the 88th Annual Meeting of the Transportation Research Board. Washington, DC. January 11-15, 2009.

TEACHING EXPERIENCE

Assistant professor, Graduate Program in Community and Regional Planning, School of Architecture, The University of Texas at Austin

2020, Fall: Introduction to Visual Communication and Geographic Information Systems (masters-level graduate, core class, 33 students in two sections)

2020, Spring: Transportation Accessibility and Equity Analysis (masters-level graduate, 17 students)

2019, Fall: Introduction to Visual Communication and Geographic Information Systems (masters-level graduate, core class, 35 students in two sections)

2019, Spring: Transportation Accessibility and Equity Analysis (masters-level graduate, 14 students)

2019, Spring: Applied Methods (masters-level graduate, 11 students)

2018, Fall: Urban Transportation Planning and Policy (upper division undergraduate, 24 students)

2018, Spring: Transportation Accessibility and Equity Analysis (masters-level graduate, 11 students)

2018, Spring: Applied Methods (masters-level graduate, 10 students)

2018, Spring: Undergraduate Research Experience (undergraduate, 1 student)

2017, Fall: Undergraduate Research Experience (undergraduate, 2 students)

Assistant professor, School of City and Regional Planning, Georgia Institute of Technology

2017, Spring: Quantitative and Computer Methods (masters-level graduate, core class, 53 students)

2016, Fall: Urban Transportation (upper division undergraduate, 45 students)

2016, Fall: Transportation & GIS (graduate, 28 students)

2016, Spring: Quantitative and Computer Methods (masters-level graduate, core class, 54 students)

2015, Fall: Urban Transportation (upper division undergraduate, 40 students)

Instructor, School of Geographical Sciences and Urban Planning, Arizona State University

2014: Transportation Systems Professional Seminar (masters-level graduate, 30 students)

Instructor, UC Davis First Year Seminar Program

2013: Introduction to Environmental Justice Analysis for Engineers (freshman seminar, 12 students)

Teaching assistant, Department of Civil and Environmental Engineering, University of California, Davis

2011: Transportation and Land Use: Sustainable Design (upper division undergraduate, 50 students)

STUDENT ADVISING AND THESIS/DISSERTATION COMMITTEE SERVICE

PhD students

<i>The University of Texas at Austin</i>				
Name	Degree	Year of completion	Type	Current placement
Kaylyn Levine	PhD	Expected 2022	Dissertation chair	
Minyu Situ	PhD	Expected 2025	Dissertation chair	
<i>Georgia Institute of Technology</i>				
Name	Degree	Year of completion	Type	Current placement
Fangru Wang	PhD	2018	Dissertation committee	Software engineer, Pinterest

Masters students

<i>The University of Texas at Austin</i>				
Name	Degree	Year of completion	Type	Current placement
Tymon Khamsi	MSCRP	Expected 2020	Professional report	
Bolin Lan	MSCRP	2020	Professional report	
Sagnika Das	MSCRP	2020	Professional report	Research Assistant, Texas A&M Transportation Institute
June Greeman	MSCRP	2020	Professional report	Research Assistant, Texas A&M Transportation Institute
Louis Alcorn	MSCE/MSCRP	2019	Thesis	Associate Consultant, WSP
Paulina Urbanowicz	MSCRP	2019	Professional report	Leadership Fellow, The Port Authority of New York & New Jersey
Olivia Posner	MSCRP	2019	Professional report	
Arman Rajaeian	MSCRP	2018	Professional report	Planner, Metro Transit (Minneapolis, MN)
Caleb Roberts	MSCRP	2018	Professional report	Co-Director for Northwest Texas, Texas Housers
Thomas Medina	MSCRP	2018	Professional report	Architectural Designer, L.M. Holder III
Greg Grant	MSCRP	2018	Professional report	Transportation Planner, Jacobs
<i>Georgia Institute of Technology</i>				
Name	Degree	Year of completion	Type	Current placement
Sanjay Senthilkumar	MSCE/MCRP	2018	Thesis	Senior Performance Analyst, Georgia State Road & Tollway Authority
Rebecca van Dyke	MCRP	2018	Option paper	Senior Consultant, High Street Consulting
Margaret Kent	MCRP	2017	Option paper	Planner, Kittelson & Associates
Anindya Debnath	MCRP	2017	Option paper	Assistant Professor, Dept. of Urban and Regional Planning, Bangladesh University of Engineering and Technology

Ellen Ray	MCRP	2017	Option paper	Assistant Administrator, Rebekah Baines Johnson Center
Richard Duckworth	MCRP	2017	Option paper	Relocation Specialist, US Department of Housing and Urban Development

Undergraduate students (senior projects/thesis equivalents)

<i>The University of Texas at Austin</i>			
Name	Degree	Year completed	Type
Edwin Bautista	BA Urban Studies	2020	Senior Project
Estephanie Diaz	BA Urban Studies	2020	Senior Project
Eric Wise	BA Urban Studies	2019	Senior Project
Maya Williams-Britton	BA Urban Studies	2019	Senior Project
Brendan Rodriguez	BA Urban Studies	2019	Senior Project
Julia Hage	BA Urban Studies	2019	Senior Project
Jordan McGee	BA Urban Studies	2019	Senior Project
Jake Wigal	BA Urban Studies	2019	Senior Project
Hannah Winge	BA Urban Studies	2018	Senior project
Laura Osborn	BA Urban Studies	2018	Senior project
Thomas Williams	BA Urban Studies	2018	Senior project

Undergraduate students (undergraduate research experience)

<i>The University of Texas at Austin</i>			
Name	Major	Semester	Type
William Watkins	Middle Eastern Languages and Cultures/History	Fall 2019	School of Undergraduate Studies
Rutuja Joshi	Management Information Systems	Spring 2019	School of Undergraduate Studies
Harman Kang	Geography	Spring 2019	School of Undergraduate Studies
Anna Huntington	Math	Fall 2018	Bridging Disciplines Program
Paul Wilson	Biology/Data Science	Fall 2018	Statistics and Data Science
Chandler Forsythe	Humanities	Fall 2017	School of Undergraduate Studies
Jorge Hernandez	Computer Science	Fall 2017	School of Undergraduate Studies

STUDENT AWARDS, HONORS, AND ACHIEVEMENTS

Louis Alcorn (UT-Austin MSCRP, 2019/MSCE, 2020): Dwight David Eisenhower Fellow 2019-2020

Paulina Urbanowicz (UT-Austin MSCRP, 2019): Eno Future Leaders Development Fellow 2018

Richard Duckworth (Georgia Tech MCRP, 2017): Presidential Management Fellow 2017-2019

PROFESSIONAL EXPERIENCE

Sustainable Systems Research, LLC, Davis, CA

2012 – Present: Principal

Sacramento Area Council of Governments, Sacramento, CA

2009: Travel demand modeling intern

FACULTY SERVICE

The University of Texas at Austin (campus-wide service)

Steering committee member, Opportunity Forum (2018-Present)

Panel member, Smart Cities, Bridging Disciplines Program (2019-Present)

School of Architecture, The University of Texas at Austin

Member, Digital Technologies Committee (2017-2019)

Co-editor, Platform (Annual School of Architecture development-focused magazine highlighting faculty research, 2018-2019)

School of Civil and Environmental Engineering, Georgia Institute of Technology

Member, Dickerson Chair search committee (2016-2017)

College of Design, Georgia Institute of Technology

Member, Diversity and Inclusion Council (2016-2017)

School of City and Regional Planning, Georgia Institute of Technology

Member, PhD Committee (2015-2017)

Member, Diversity Committee (2016-2017)

SERVICE TO THE PROFESSION

Editorial board memberships

Journal of Public Transportation, Associate Editor (2020-Present)
Transportation Research Record, Handling Editor (2019-Present)

Special issue editor

Transportation Research Part D: Transport and Environment Special Issue on Transportation Justice (2020). Co-editors: Aaron Golub and Tierra Bills.

Transportation Research Board

Program committee co-chair, Conference on Advancing Transportation Equity (to be held May 2021)
US Planning committee member, 6th European Union-United States Transport Research Symposium on the Socioeconomic Impacts of Connected and Automated Vehicles (2018-2019)
Member, ADD50: Standing Committee on Environmental Justice in Transportation (2015-2020)
Member, AME10: Standing Committee on Equity in Transportation (2020 – Present)
Member, AME80: Standing Committee on Community Resources and Impacts (2020 – Present)

Research proposal reviewer

Center for Transportation Equity, Decisions and Dollars (Tier 1 UTC), The University of Texas at Arlington
Comisión Nacional de Investigación Científica y Tecnológica (CONICYT, National Commission for Scientific and Technological Research, Chilean NSF equivalent)
Cooperative Mobility for Competitive Megaregions (Tier 1 UTC), The University of Texas at Austin
National Center for Sustainable Transportation, University of California, Davis
National Institute for Transportation and Communities, Portland State University
University of California, Los Angeles Institute for Transportation Studies
Israel Science Foundation

Book proposal reviewer

SAGE Publishing

Book chapter reviewer

Learning from Arnstein's Ladder: From Citizen Participation to Public Engagement (RTPI edited volume)

Conference abstract reviewer

International Transport Forum Pre-Summit Research Day, 2019

Paper reviewer

Full reviewer statistics available on Publons: <https://publons.com/researcher/1351553/alex-karner/peer-review/>

Atmospheric Environment
Case Studies in Transport Policy
City
CLEAN – Soil, Air, Water
Computers, Environment and Urban Systems
Environmental Science and Technology
Environmental Sociology
IATSS Research
International Development Planning Review
International Journal of Sustainable Transportation
Journal of Cleaner Production
Journal of Planning Literature
Journal of Policy History
Journal of Planning Education and Research
Journal of the American Planning Association
Journal of Transport Geography
Journal of Transport & Health
Landscape and Urban Planning
Physics Letters A
Planning Forum (graduate student publication at UT Austin)
Public Works Management & Policy
Sustainability
Transportation Research Part A: Policy and Practice
Transportation Research Part D: Transport and Environment
Transportation Research Record
Transport Policy
Travel Behaviour and Society
Urban Geography