

Gulsah Akar, Ph.D.

Professor & Chair
 School of City and Regional Planning
 College of Design
 Georgia Institute of Technology
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EDUCATION

Ph.D.	2009	Civil and Environmental Engineering, Concentration: Transportation University of Maryland (UMD) at College Park Dissertation: <i>Analysis of Activity Choice: The Role Of Activity Attributes And Individual Schedules</i> . Committee: Kelly J. Clifton (Chair), Cinzia Cirillo, Qing Shen, Ali Haghani & Paul Schonfeld
M.Sc.	2004	Civil Engineering, Middle East Technical University (METU), Ankara, Turkey
B.Sc.	2002	Civil Engineering, Middle East Technical University (METU), Ankara, Turkey

ACADEMIC POSITIONS & AFFILIATIONS

2021 - present	Professor & Chair	School of City & Regional Planning, Georgia Institute of Technology
2020 - 2021	Professor	City and Regional Planning, Knowlton School, The Ohio State University (OSU)
2019 - 2021	Research Program Lead	Smart and Resilient Communities Program, Sustainability Institute, OSU
2017 - 2021	Courtesy Appointment	Civil, Environmental and Geodetic Engineering, OSU
2015 - 2020	Associate Professor	City and Regional Planning, Knowlton School, OSU
2010 - 2015	Assistant Professor	City and Regional Planning, Knowlton School, OSU
2009 - 2010	Visiting Assistant Professor	City and Regional Planning, Knowlton School, OSU

LEADERSHIP TRAINING

2020	Better mentoring = Better Science Training, College of Engineering, OSU
2017-2018	The President and Provost's Leadership Institute (PPLI), OSU

JOURNAL EDITORSHIPS

2015-present	Editor, <i>Journal of Planning Literature</i> SSCI, 2019 Impact Factor: 2.583, Five-year impact factor: 3.982
2018	Guest Editor, <i>Transportation</i> Special Issue: User response to autonomous vehicles and emerging mobility systems SSCI, SCI, Impact Factor: 3.457, Five-year impact factor: 3.851

PEER REVIEWED JOURNAL PUBLICATIONS*

1. H. Miller, K. Clifton, G. Akar, K. Tufte, S. Gopalakrishnan, J. MacArthur, E. Irwin, R. Ramnath & J. Stiles (2021). Urban Sustainability Observatories: Leveraging Urban Experimentation for Sustainability Science and Policy. *Harvard Data Science Review*, <https://doi.org/10.1162/99608f92.2025202b>
2. B. Ozbilen, K. Slagle, G. Akar (2021) "Perceived risk of infection while traveling during the COVID-19 pandemic: Insights from Columbus, OH", *Transportation Research Interdisciplinary Perspectives*, <https://doi.org/10.1016/j.trip.2021.100326>
3. B. Ozbilen, K. Wang and G. Akar (2021) "Revisiting the Impacts of Virtual Mobility on Travel Behavior: An Exploration of Daily Travel Time Expenditures", *Transportation Research Part A*, Vol. 145, pp. 49-62 <https://doi.org/10.1016/j.tra.2021.01.002>
4. G. Pae and G. Akar (2020) "Effects of Walking on Self-Assessed Health Status: Links between walking, trip purposes and health", *Journal of Transport and Health*, Vol. 18, <https://doi.org/10.1016/j.jth.2020.100901>
5. N. Chen, G. Akar, S. Gordon and S. Chen (2020) "Where do you live and what do you drive: Built-environmental and spatial effects on vehicle type choice and vehicle use", *International Journal of Sustainable Transportation*, forthcoming, published online: <https://doi.org/10.1080/15568318.2020.1762950>
6. K. Wang, G. Akar, K. Lee and M. Sanders (2020) "Commuting patterns and bicycle level of traffic stress (LTS): Insights from spatially aggregated data in Franklin County, Ohio", *Journal of Transport Geography*, Volume 86, forthcoming, published online: <https://doi.org/10.1016/j.jtrangeo.2020.102751>
7. K. Wang and G. Akar (2020) "Will Millennials Drive Less as the Economy Recovers: A Post Recession Analysis of Automobile Travel Patterns", *Journal of Planning Education and Research (JPER)*, forthcoming (published online: <https://doi.org/10.1177/0739456X20911705>)
8. K. Wang and G. Akar (2019) "Effects of neighborhood environments on perceived risk of self-driving: evidence from the 2015 and 2017 Puget Sound Travel Surveys", *Transportation*, Vol. 46. 6, pp. 2117-2136 <https://doi.org/10.1007/s11116-019-10069-9>
9. Y. Park and G. Akar (2019) "Understanding the effects of individual attitudes and residential neighborhood types on university commuters' bicycling decisions", *Journal of Transport and Land Use*, Vol. 12, No. 1, pp. 419-441 <https://doi.org/10.5198/jtlu.2019.1259>
10. K. Wang and G. Akar (2019) "Gender gap generators for bike share ridership: Evidence from Citi Bike System in New York City", *Journal of Transport Geography*, Vol. 76, pp. 1-9 <https://doi.org/10.1016/j.jtrangeo.2019.02.003>

* Underline indicates an advisee at the time of manuscript submission.

11. K. Wang and G. Akar (2019) "Factors affecting the adoption of autonomous vehicles for commute trips: An Analysis with the 2015 and 2017 Puget Sound Travel Surveys", *Transportation Research Record*, vol. 2673 (2), pp. 13-25. <https://doi.org/10.1177/0361198118822293>
12. Y. Park and G. Akar (2019) "Why Do Bicyclists Take Detours? A Multilevel Regression Model Using Smartphone GPS Data", *Journal of Transport Geography*, vol. 74, pp. 191-200. <https://doi.org/10.1016/j.jtrangeo.2018.11.013>
13. K. Wang and G. Akar (2018) "The perceptions of bicycling intersection safety by four types of bicyclists" *Transportation Research Part F: Psychology and Behaviour*, Volume 59, Part A, pp. 67-80. <https://doi.org/10.1016/j.trf.2018.08.014>
14. K. Wang, G. Akar and Y-J Chen (2018) "Bike sharing differences among Millennials, Gen Xers, and Baby Boomers: Lessons learnt from New York City's bike share" *Transportation Research Part A*, Vol. 116, pp 1-14. <https://doi.org/10.1016/j.tra.2018.06.001>
15. K. Wang and G. Akar (2018) "Street Intersection Characteristics and Their Impacts on Perceived Bicycling Safety" *Transportation Research Record*, Vol. 2672 (46), 41-54 <https://doi.org/10.1177/0361198118801349>
16. M. Blau, G. Akar and J. Nasar (2018) "Driverless Vehicles' Potential Influence on Bicyclist Facility Preferences." *International Journal of Sustainable Transportation* , 12:9, 665-674 <https://doi.org/10.1080/15568318.2018.1425781>
17. Y. Park, N. Chen and G. Akar (2018) "Who is Interested in Carpooling and Why: The Importance of Individual Characteristics, Role Preferences, and Carpool Markets" *Transportation Research Record*, vol. 2672 (8) 708-718 <https://doi.org/10.1177/0361198118756883>
18. N. Chen, C. Wang and G. Akar (2017) "Geographically Weighted Regression Approach to Investigate Spatial Variations in Activity Space", *Transportation Research Record (TRR)*, No. 2671, pp. 40-50 <https://doi.org/10.3141/2671-05>
19. N. Chen and G. Akar (2017) "How do Socio-Demographics and Built Environment affect Individual Accessibility based on Activity Space? Evidence from Greater Cleveland, Ohio", *Journal of Transport and Land Use*, Vol 10, No 1, pp. 477–503 <https://doi.org/10.5198/jtlu.2016.861>
20. Y.J. Chen and G. Akar (2017) "Using trip chaining and joint travel as mediating variables to explore the relationships among travel behavior, socio-demographics and urban form", *Journal of Transport and Land Use*, Vol 10, No 1, pp. 573–588 <https://doi.org/10.5198/jtlu.2017.882>
21. N. Chen and G. Akar (2016). "Effects of Neighborhood Types & Socio-Demographics on Activity Space", *Journal of Transport Geography*, vol. 54, pp. 112-121 <https://doi.org/10.1016/j.jtrangeo.2016.05.017>
22. G. Akar, N. Chen and S. Gordon (2016) "Influence of Neighborhood Types on Trip Distances, Spatial Error Models for Central Ohio", *International Journal of Sustainable Transportation*, Vol. 10, Issue 3, pp 284-293 <https://doi.org/10.1080/15568318.2014.903447>

23. M. Namgung and G. Akar (2015). "Influences of Neighborhood Characteristics and Personal Attitudes on Public Transit Use" *Transportation Research Record (TRR)*, Vol. 2500, pp. 93-101 <https://doi.org/10.3141/2500-11>
24. C. Wang, G. Akar and JM Guldmann (2015) "Do Your Neighbors Affect Your Bicycling Choice: A Spatial Probit Model for Bicycling to The Ohio State University" *Journal of Transport Geography*, Vol. 42, pp. 122-130 <https://doi.org/10.1016/j.jtrangeo.2014.12.003>
25. M. Namgung and G. Akar (2014) "The Role of Gender and Attitudes on Public Transportation Use" *Transportation Research Record (TRR)*. Vol. 2415, pp. 136-144 <https://doi.org/10.3141/2415-15>
26. J. Evans-Cowley and G. Akar (2014) "StreetSeen Visual Survey Tool for Determining Factors That Make a Street Attractive for Bicycling" *Transportation Research Record (TRR)*. Vol, 2468, pp. 19-27 <https://doi.org/10.3141/2468-03>
27. G. Akar (2013) "Ground Access to Airports, Case Study: Port Columbus International Airport" *Journal of Air Transport Management*, Vol.30, pp. 25-31 <https://doi.org/10.1016/j.jairtraman.2013.04.002>
28. G. Akar, N. Fischer and M. Namgung (2013) "Bicycling Choice and Gender, Case study: The Ohio State University", *International Journal of Sustainable Transportation*, Vol. 7, Issue 5, pp. 347-365. <https://doi.org/10.1080/15568318.2012.673694>
29. G. Akar, C. Flynn and M. Namgung (2012) "Travel Choices and Links to Transportation Demand Management, Case Study at The Ohio State University", *Transportation Research Record (TRR)*, Vol. 2319, pp. 77-85. <https://doi.org/10.3141/2319-09>
30. G. Akar and J-M. Guldmann (2012) "Another look at VMT: Determinants of vehicle use in two-vehicle households", *Transportation Research Record (TRR)*, Vol. 2322, pp. 110-118. <https://doi.org/10.3141/2322-12>
31. G. Akar, K.J. Clifton, and S.T. Doherty (2012) "Redefining Activity Types: Who Participates in Which Leisure Activity?" *Transportation Research Part A: Policy & Practice*, Vol. 46, Issue 8, pp. 1194–1204. <https://doi.org/10.1016/j.tra.2012.05.007>
32. G. Akar, K. J. Clifton, and S. Doherty (2011) "Discretionary Activity Location Choice: In-Home or Out-of-Home?" *Transportation*, vol. 38, pp. 101–122. <https://doi.org/10.1007/s11116-010-9293-x>
33. G. Akar, K. J. Clifton (2009) "The influence of individual perceptions and bicycle infrastructure on the decision to bike" *Transportation Research Record (TRR) - Journal of Transportation Research Board*, Vol. 2140, pp. 165-172. <https://doi.org/10.3141/2140-18>
34. G. Akar, K. J. Clifton, and S. Doherty (2009) "How do travel attributes affect the planning time horizon of activities?" *Transportation Research Record (TRR) - Journal of Transportation Research Board*, Vol. 2132, pp. 33-41. <https://doi.org/10.3141/2132-04>

35. K. J. Clifton, C. Burnier and G. Akar (2009) "Severity Of Injury Resulting from Pedestrian-Vehicle Crashes: What Can We Learn From Examining Built Environment?" *Transportation Research-D*, Vol. 14, Issue 6, pp. 425-43. <https://doi.org/10.1016/j.trd.2009.01.001>
36. R. McCuen, G. Akar, I. Gifford, and D. Srikantaiah (2009) "A Model for Improving the Effectiveness of Advisor-Advisee Communication: Analyses and Recommendations", *Journal of Professional Issues in Engineering Education and Practice*, Vol. 135, No. 4, pp. 153-160. [https://doi.org/10.1061/\(ASCE\)1052-3928\(2009\)135:4\(153\)](https://doi.org/10.1061/(ASCE)1052-3928(2009)135:4(153))

EDITORIALS

- G. Akar and H. Miller (2021). Editorial: Transportation and Cities in the 21st Century: Will New Mobility Technologies Make Cities More Sustainable, *Journal of Planning Literature*, Vol. 36, Issue 1, pp 3-4. <https://journals.sagepub.com/doi/10.1177/0885412220975515>
- G. Akar and G.D. Erhardt (2018). Editorial: User response to autonomous vehicles and emerging mobility systems. *Transportation*, Volume 45, Issue 6, pp 1603–1605. <https://doi.org/10.1007/s11116-018-9943-y>

FUNDED RESEARCH

- **Co-PI:** Smart Columbus Impact Assessment, Smart Columbus (Co-PIs: H. Miller, E. Irwin, G. Akar, Z. Chen, A. Woodburn, J. Reece, A. Herziger), 2019-2021, \$362,862
- **Co-PI:** Concepts for Advancing Sustainable Urban Systems (SUS) Research Networks, NSF (PI: Harvey Miller; Co-PIs: G. Akar, S. Gopalakrishnan, K. Clifton and K. Tufte, 2019, \$49,880.
- **Co-PI:** Sustainable Columbus Observatory (SCO), OSU Sustainability Institute (Co-PIs: Professors Harvey Miller, Ningchuan Xiao and Gulsah Akar), 2018-2020, \$150,000.
- **PI:** Investigating Tools for Evaluating Service and Improvement Opportunities on Bicycle Routes on Ohio's Local System, ODOT (Ohio Department of Transportation), 2018-2019, \$94,319.
- **Co-PI:** The Impact of Electric Vehicles on Resilience in Smart Cities, OSU Sustainable and Resilient Economy Program, (PI: Dr. Jee Young Lee, Co-PIs: Professors Gulsah Akar, Jung Hyun Kim & Ramteen Sioshansi) 2017-2018, \$49,900
- **Co-PI:** Ladders to Opportunity: Leveraging Transportation Investment to Improve Infant & Maternal Health Outcomes, OSU Connect and Collaborate Grant Program, (PI: Professor Jason Reece, Co-PIs: Professors Rachel Kleit, Amber Woodburn & Gulsah Akar) 2017-2018, \$10,000
- **Co-PI:** Affordable Housing and Environmental Risk in Ohio. OSU Center for Real Estate (PI: Dr. Jee Young Lee, Co-PI: Gulsah Akar), 2016-2017, \$2,000
- **PI:** Street Intersection Characteristics and Their Impacts on Perceived Safety, ODOT (Ohio Department of Transportation), 2016-2017, \$40,000

- **PI:** Tracking bicyclists' route choices at The Ohio State University, NEXTRANS University Transportation Center, 2015-2016, \$90,000.
- **PI:** Linking Land Use, Transportation and Travel Behavior in Ohio – Vehicle Choice and Decline Components, ODOT (Ohio Department of Transportation), (Co-PI: Professor Steven I. Gordon) 2013-2015, \$151,108.
- **PI:** Linking Land Use, Transportation and Travel Behavior in Ohio, ODOT (Ohio Department of Transportation), (Co-PI: Professor Steven I. Gordon) 2011-2012, \$135,664.
- **PI:** Ground Access to Airports, CAS (Center for Aviation Studies, The Ohio State University), 2011-2012, \$25,000.
- **Co-PI:** Potential of employer-based real-time ridesharing, University Transportation Center, 2012-2013, \$39,852 (with Professors Mark McCord and Rabi Mishalani)

OTHER ARTICLES

- Y. Park and G. Akar (2018) "Investigating Bicyclists' Route Preferences and Detour Behavior with Smartphone GPS Application, Remote Sensing, & Google Street View" Planning & Technology Today, American Planning Association (APA), Technology Division, Issue 116, Winter 2017, p. 8.
- G. Akar (2010) "Moving from oil for transportation" Renewable Energy World Magazine North America. Vol. 2, no. 4. Edited by D. Wagman. (July)

BOOK REVIEWS

- B. Ozbilen and G. Akar (2018). Review of "Beyond Mobility: Planning Cities for People and Places by Robert Cervero, Erick Guerra, and Stefan Al", JPER, October 2018.
- G. Akar (2012): Review of "Transportation and economic development challenges", Journal of the American Planning Association, Vol. 78, issue 1, pp. 115-116.

TECHNICAL REPORTS

- G. Akar, K. Lee, K. Wang and M. Sanders (2019) Investigating Tools for Evaluating Service and Improvement Opportunities on Bicycle Routes on Ohio's Local System. *ODOT (Ohio Department of Transportation)*
<https://cdm16007.contentdm.oclc.org/digital/collection/p267401ccp2/id/18159>
- G. Akar and K. Wang (2017) Street Intersection Characteristics and Their Impacts on Perceived Bicycling Safety. *ODOT (Ohio Department of Transportation)*
<http://cdm16007.contentdm.oclc.org/cdm/ref/collection/p267401ccp2/id/15926>
- G. Akar and Y. Park (2017) Tracking Bicyclists' Route Choices, Case Study: The Ohio State University. *USDOT Region V Regional University Transportation Center Final Report*
http://www.purdue.edu/discoverypark/nextrans/assets/pdfs/171OSUY2.2_Summary%20and%2

[0Final%20Technical%20Report.pdf](#)

- R. Mishalani, M. McCord and G. Akar (2015) Investigating the Potential of Employer Based Real time Ridesharing. *USDOT Region V Regional University Transportation Center Final Report* https://www.purdue.edu/discoverypark/nextrans/assets/pdfs/Final_Report_0900Y04.pdf
- G. Akar, S. Gordon, Y. Zhang, N. Chen and MY. Park. (2015). Linking Land Use, Transportation and Travel Behavior in Ohio- Vehicle Choice and Decline Components. *ODOT (Ohio Department of Transportation)*. https://ntl.bts.gov/lib/56000/56200/56283/Linking_land_use_and_travel_in_Ohio_incorporating_vehicle_choice_and_decline_components.pdf
- G. Akar, S. Gordon and Y. Zhang. (2013). Linking Land Use, Transportation and Travel Behavior in Ohio. *ODOT (Ohio Department of Transportation)*. https://www.dot.state.oh.us/Divisions/Planning/SPR/Research/reportsandplans/Reports/2013/Planning/134624_FR.pdf

CONFERENCE PRESENTATIONS*

1. B. Ozbilen, G. Akar, K. White, H. Dabelko-Schoeny and Q. Cao “Analyzing Travel Behavior of Older Adults: What Are the Determinants of Sustainable Mobility?” Association of Collegiate Schools of Planning (ACSP) 60th Annual Conference, November 2020, Virtual Meeting.
2. K. Kwon and G. Akar “Trip Chaining, Gender and Household Structures” Association of Collegiate Schools of Planning (ACSP) 60th Annual Conference, November 2020, Virtual Meeting.
3. G. Pae and G. Akar “The Effects of Active Travel and Perceived Built Environment on Self-Assessed Health Status” Association of Collegiate Schools of Planning (ACSP) 60th Annual Conference, November 2020, Virtual Meeting.
4. G. Akar, K. Lee, M. Sanders, K. Wang “Investigating Tools for Evaluating Service and Improvement Opportunities on Bicycle Routes in Ohio”, 98th Annual Meeting of the Transportation Research Board (TRB), January-2019, Washington, D.C
5. G. Akar, K. Wang, K. Lee, M. Sanders “Commuting mode choices and bicycle level of traffic stress: Findings from the Franklin County, Ohio”, 98th Annual Meeting of the Transportation Research Board (TRB), January-2019, Washington, D.C
6. K. Kwon & G. Akar “Gender Differences in Commute Behavior: Is it Shrinking or Persistent?” Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.
7. B. Ozbilen & G. Akar “A Novel Approach to the Measurement of Sustainability Through Sustainability Indicators: A Case Study of Columbus, OH” Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.
8. K. Wang & G. Akar “Will Millennials Drive Less as the Economy Recovers: A Nationwide Longitudinal Study” Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.
9. G. Pae & G. Akar “Retired and Healthy: Links Between Walking Trips, Retirement and Health” Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.

* Underline indicates an advisee at the time of abstract/manuscript submission.

10. G. Akar, K. Wang, K. Lee, M. Sanders “Investigating Tools for Evaluating Bicycling Comfort and Safety” Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.
11. K. Lee and G. Akar “Leveraging Ohio Datasets for Bicycle Facilities” Ohio Transportation Engineering Conference, October 2019, Columbus, OH.
12. G. Akar, E. Irwin, H. Miller, B. Ozbilen, A. Porr, N. Xiao “The Sustainable Columbus Observatory (SCO): Measuring community progress towards sustainability and resilience” The Ohio State University’s 2019 Community Engagement Conference, January 2019, Columbus, OH.
13. K. Wang and G. Akar “Factors Affecting the Adoption of Autonomous Vehicles for Commute Trips: An Analysis with the 2015 and 2017 Puget Sound Travel Surveys” 98th Annual Meeting of the Transportation Research Board (TRB), January-2019, Washington, D.C
14. K. Wang and G. Akar “Gender Gap Generators for Bikeshare Ridership: Evidence from the Citi Bike System in New York City” 98th Annual Meeting of the Transportation Research Board (TRB), January-2019, Washington, D.C
15. K. Wang and G. Akar “Effects of Neighborhood Environments on Perceived Risk of Self-Driving: Evidence from the 2015 and 2017 Puget Sound Travel Surveys ” 98th Annual Meeting of the Transportation Research Board (TRB), January-2019, Washington, D.C
16. J-Y Lee and G. Akar “Electric Vehicles, Power outages and Willingness to pay”, Association of Collegiate Schools of Planning (ACSP) 58th Annual Conference, October 2018, Buffalo, NY.
17. Y. Park, N. Chen and G. Akar “Who Is Interested in Carpooling and Why? The Importance of Individual Characteristics, Role Preferences, and Carpool Markets”, 97th Annual Meeting of the Transportation Research Board (TRB), January-2018, Washington, D.C
18. K. Wang and G. Akar “Street Intersection Characteristics and Their Impacts on Perceived Bicycling Safety”, 97th Annual Meeting of the Transportation Research Board (TRB), January-2018, Washington, D.C
19. K. Wang, Y-J Chen and G. Akar “Joint Analysis of the Impacts of Built Environment and Bikeshare Station Capacity on Trip Attractions Across Different Gender and Age Groups 97th Annual Meeting of the Transportation Research Board (TRB), January-2018, Washington, D.C
20. Y. Park and G. Akar “Bicycle Route Preferences of University Commuters Revealed by Smart-Phone GPS Data: Safe, Separated, Fluid, and Green” Association of Collegiate Schools of Planning (ACSP) 57th Annual Conference, October 2017, Colorado, Denver.
21. K. Wang and G. Akar “Street Intersection Characteristics and Their Impacts on Perceived Bicycling Safety” ACSP, 57th Annual Conference, October 2017, Colorado, Denver.
22. Yu-Jen Chen, K. Wang and G. Akar “Joint Analysis of the Impacts of Built Environment on Bike Sharing Station Capacity and Gender Specific Trip Attractions” ACSP, 57th Annual Conference, October 2017, Colorado, Denver.
23. G. Akar “New Technologies, Unintended Consequences and Other Road Users” APA Statewide Planning Conference, September 2017, Athens, OH. Session Name: “Who’s Driving This Thing: Planning For Livable Communities In The Era Of Disruptive Transportation Tech”
24. Y-J. Chen and G. Akar “Study on Joint Travel Companion Types of Multiple-Member Households in Cleveland Metropolitan Area, Ohio”, 96th Annual Meeting of the Transportation Research Board (TRB), January-2017, Washington, D.C
25. N. Chen, C-H Wang and G. Akar “Geographically Weighted Regression Approach to Investigate Spatial Variations in Activity Space” 96th Annual Meeting of the Transportation Research Board (TRB), January-2017, Washington, D.C
26. Y. Park and G. Akar “Factors Affecting Bicycle Commuting: The Role of Individual Attitudes and Neighborhood Environments” 96th Annual Meeting of the Transportation Research Board (TRB), January-2017, Washington, D.C

27. Y-J. Chen and G. Akar “Structural analysis on Trip Chaining, Joint Travel and Travel Demand: Evidence from Cleveland Metropolitan Area” Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference, November 2016, Portland, Oregon.
28. Y. Park and G. Akar “The decision to commute by bicycle to campus: The interplay of individual attitudes and neighborhood environments” Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference, November 2016, Portland, Oregon.
29. M. Blau, G. Akar and J. Nasar “Driverless Vehicles’ Influence on Bicyclist Facility Preferences” Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference, November 2016, Portland, Oregon.
30. N. Chen, C-H Wang and G. Akar “Geographically Weighted Regression Approach to Investigate Spatial Variations in Activity Space” Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference, November 2016, Portland, Oregon.
31. K. Wang, G. Akar and D. Salon “Neighborhood Environments and School Children’s Bicycling Activity: A gender-based hierarchical model with spatial spillover effects” Association of Collegiate Schools of Planning (ACSP) 56th Annual Conference, November 2016, Portland, Oregon.
32. M. Blau, G. Akar and J. Nasar “Driverless Vehicles’ Potential Influence on Bicyclist Facility Preferences” 95th Annual Meeting of the Transportation Research Board (TRB), January-2016, Washington, D.C
33. N. Chen and G. Akar “How do socio-demographics and built environment affect individual accessibility based on activity space? Evidence from Greater Cleveland, Ohio” 95th Annual Meeting of the Transportation Research Board (TRB), January-2016, Washington, D.C
34. N. Chen and G. Akar “How do socio-demographics and built environment affect individual accessibility based on activity space? Evidence from Greater Cleveland, Ohio”, Association of Collegiate Schools of Planning (ACSP) 55th Annual Conference, October 2015, Houston, Texas.
35. Y-J. Chen and G. Akar “Exploring the interrelationships among socio-demographics, urban form, activity travel patterns and vehicle miles traveled” Association of Collegiate Schools of Planning (ACSP) 55th Annual Conference, October 2015, Houston, Texas.
36. M. Namgung and G. Akar “Influences of Neighborhood Characteristics and Personal Attitudes on University Commuters’ Public Transit Use” 94th Annual Meeting of the Transportation Research Board (TRB), January-2015, Washington, D.C
37. N. Chen and G. Akar “Effects of Built Environment on Activity Spaces as Transportation Equity Indicator” 94th Annual Meeting of the Transportation Research Board (TRB), January-2015, Washington, D.C
38. M. Namgung and G. Akar “Influences of neighborhood characteristics and personal attitudes on public transit use” Association of Collegiate Schools of Planning (ACSP) 54th Annual Conference, November 2014, Philadelphia, PA
39. G. Akar, N. Chen, S. Gordon and M. Park “Where do you live and what do you drive: Effects of land-use and built environment on vehicle type choice” ACSP 54th Annual Conference, November 2014, Philadelphia, PA
40. Y-J. Chen and G. Akar “A study on joint and individual home-based tours using activity-based model approach” ACSP 54th Annual Conference, November 2014, Philadelphia, PA
41. N. Chen and G. Akar “Transportation equity analysis using individual accessibility and activity space” ACSP 54th Annual Conference, November 2014, Philadelphia, PA
42. M. Namgung and G. Akar “The Role of Gender and Attitudes on Public Transportation Use” presented at the 93rd Annual Meeting of the Transportation Research Board (TRB), January-2014, Washington, D.C

43. J. Evans-Cowley and G. Akar "StreetSeen: Factors Influencing the Desirability of a Street for Bicycling" presented at the 93rd Annual Meeting of the Transportation Research Board (TRB), January-2014, Washington, D.C
44. G. Akar, S. Gordon & Y. Zhang "Linking Land Use and Transportation in Ohio" presented at the 14th TRB National Transportation Planning Applications Conference, May 30 2013, Columbus, OH
45. G. Akar, N. Chen and S. Gordon "Influence of Neighborhood Types on Trip Distances, A Case Study of Central Ohio" presented at the 92nd Annual Meeting of the Transportation Research Board (TRB), January-2013, Washington, D.C
46. C. Wang, G. Akar and J.M. Guldmann "Do Your Neighbors Affect Your Mode Choice? A Spatial Probit Model for Commuting to The Ohio State University" presented at the 92nd Annual Meeting of the Transportation Research Board (TRB), January-2013, Washington, D.C
47. G. Akar, S. Gordon, N. Chen, Y-J. Chen and Y. Zhang "Linking Land Use and Transportation in Ohio" Association of Collegiate Schools of Planning (ACSP) Annual Conference, November 2012, Cincinnati, OH
48. M. Namgung and G. Akar "Why not public transit? The role of attitudes and perceptions in public transit usage" Association of Collegiate Schools of Planning (ACSP) Annual Conference, November 2012, Cincinnati, OH
49. G. Akar and J-M. Guldmann "Another look at VMT: Determinants of vehicle use in two-vehicle households", presented at the 91st Annual Meeting of the Transportation Research Board (TRB), January-2012, Washington, D.C.
50. G. Akar, C. Flynn and M. Namgung "Understanding Travel Choices and Links to TDM: A Case study of The Ohio State University", presented at the 91st Annual Meeting of the Transportation Research Board (TRB), January-2012, Washington, D.C.
51. M. Bornhorst, G. Akar, P. Craigmile, N. Hernandez and T. Buckley "Space and Time Patterns of Traffic-Related Air Pollution to Inform Exposure and Risk for Transportation and Parking Planning at The Ohio State University", presented at International Society of Exposure Science Annual Conference, Oct 23-27, 2011, Baltimore, MD.
52. G. Akar "How can we promote carpooling? Using individual perceptions to create a framework" ACSP Annual Conference, October 2011, Salt Lake City, UT
53. J. Silcott & G. Akar "Challenging the bicycle compatibility index (BCI): How effective is the BCI?", ACSP, October 2011, Salt Lake City, UT
54. G. Akar, N. Fischer, M. Namgung "Why women bicycle less? Case study: The Ohio State University" Transportation Research Board (TRB) 90th Annual Meeting, January 2011 -Washington, D.C
55. G. Akar "Why women bicycle less? Evidence from the University of Maryland campus" ACSP, October, 2010, Minneapolis, MN.
56. G. Akar "Activity Choice and Travel: A New Choice Framework", 50th Anniversary ACSP Conference, October, 2009 - Crystal City, Virginia.
57. G. Akar, K. J. Clifton, & S. Doherty "The Role of Activity Attributes and Gender on Activity Participation" TRB's Fourth International Conference on Women's Issues in Transportation, October 27-30, 2009- Irvine, California.
58. K. J. Clifton, G. Akar, A. L. Smith & C. Voorhes "Gender differences in adolescent travel to school: Exploring the Links with Physical Activity and Health" TRB's Fourth International Conference on Women's Issues in Transportation, October 27-30, 2009- Irvine, California.
59. G. Akar, K.J. Clifton, & S. T. Doherty. "How Do Travel Attributes Affect Planning Time Horizon of Activities?" Transportation Research Board (TRB) 88th Annual Meeting, 2009, Washington, D.C
60. G. Akar and K.J. Clifton. "The Influence of Individual Perceptions and Bicycle Infrastructure on the Decision to Bike," TRB, 88th Annual Meeting, 2009 –Washington, D.C

61. K. J. Clifton, G. Akar, A.F. Yan., G. Knaap & C.C. Voorhees (2009) "Influence of Social Support of Family and Friends for Adolescent Walking, Physical Activity, and Health" Transportation Research Board (TRB) 88th Annual Meeting, 2009 –Washington, D.C
62. G. Akar, K. J. Clifton, & S. Doherty "Influence of Time-Use Decisions on Physical Activity Patterns", International Association of Time Use Research Conference (IATUR), October 17-19, 2007- Washington, D.C.
63. G. Akar, K. J. Clifton, & S. Doherty "Discretionary Activity Location Choice: An Examination of Activity Attributes on In-Home or Out-of-Home Location Choice", World Conference on Transport Research (WCTR), June 24-28, 2007- UC-Berkeley
64. G. Akar & A. Inal "Urban Transportation Patterns and Solution Approaches to Achieve a Sustainable Transportation System in Ankara", TRB 86th Annual Meeting, January 21-25, 2007- Washington, D.C.
65. K. J. Clifton, G. Akar & S. Doherty "Influence of Personal and Activity Attributes on Discretionary Activity Location Choice: In-Home or Out-of-Home?" ACSP 47th Annual Conference, November 9-12 2006, Fort Worth, Texas.
66. G. Akar & A. Inal "Automobile Travel Reduction in Urban Areas, Case Study: Ankara", Seventh International Congress on Advances in Civil Engineering, October 11-13, 2006, Yildiz Technical University, Istanbul, Turkey
67. K. J. Clifton, G. Akar & S. Doherty "The influence of personal and activity attributes on activity location choice: in-home or out-of-home?" 11th International Conference on Travel Behaviour Research, August 16-20, 2006, Kyoto, Japan
68. G. Akar, E. Gulveren & A. Inal "An Analysis of National Traffic Accident Data with Emphasis on Changes to the 1996 Highways Traffic Act" TRODSA (Traffic and Road Safety International Congress), May 5-7, 2004, Ankara, Turkey

INVITED TALKS

- Panel Speaker, Student Job Market Workshop – Publishing in Planning, Association of Collegiate Schools of Planning (ACSP) 60th Annual Conference, November 2020, Virtual Meeting.
- Speaker, City and Regional Planning Colloquium, Smart Columbus Project Impact Assessment, OSU, September 2020.
- Panel Speaker, Student Job Market Workshop – Publishing in Planning, Association of Collegiate Schools of Planning (ACSP) 59th Annual Conference, October 2019, Greenville, SC.
- Faculty affiliate presentation, Center for Automotive Research (CAR) External Advisory Board Meeting. 2018. The Ohio State University.
- Panel speaker, OSU Mobility Week, 2018, The Ohio State University.
- Panel Speaker, CURA Panel Discussion: Healthy Places. 2018, The Ohio State University.
- Presenter, Transportation choices & their implications: From Campus Transportation to Statewide Modeling, 2015, Portland State University, Portland, OR
- Presenter, Decisions and Their Implications for Urban Transportation: From Campus to Statewide Modeling, 2015, Istanbul Technical University, Istanbul, Turkey
- G. Akar & JM. Guldmann (2011) Transportation Trends - How do we explain VMT?, OTEC (Ohio Transportation Engineering Conference), Columbus, OH (October 26, 2011)
- Presenter, "Transportation Choice: Making a System that Works for All" Midwest Fair Trade Fest, Columbus, OH (May 14, 2011)
- Presenter, "Campus Planning for Pedestrians and Bicyclists" APA Webcast Series, OSU (April 15, 2011)

- Presenter, “Choice Models and Their Extensions to Energy Consumption Patterns” Integrated Systems Engineering Department Lecture Series, OSU (February 16, 2011)
- Presenter, “Transportation and Information” Knowlton School Lecture Series, OSU (November 17, 2010)
- Presenter, “How are we traveling today? How about in future?” Beyond the Bus? Public Transit in Central Ohio, by League of Women Voters of Metropolitan Columbus. Columbus, OH. (March 18, 2010)

DOCTORAL STUDENT ADVISING (Dissertation Advisor)

- Kihyun Kwon, degree anticipated 2023
- Basar Ozbilen, degree anticipated 2022
- Gilsu Pae, degree anticipated 2021
- Yujin Park, *Essays in Geospatial Modeling of Urban Green Infrastructure*. Spring 2020. (Co-advisor: Professor Jean-Michel Guldmann)
- Kailai Wang, *Towards Sustainable Mobility: the Impacts of Infrastructure Change, Technological Innovation, and Demographic Shift*. Summer 2019
- Yu-Jen Chen. *Structural Analysis on Activity-travel Patterns, Travel Demand, Socio-demographics, and Urban Form: Evidence from Cleveland Metropolitan Area*. May 2017
- Na Chen. *Transportation equity analysis using individual accessibility and activity space*. August 2016. (Co-advisor: Professor Phil Viton)
- Mi Namgung. *Influences of neighborhood characteristics and personal attitudes on public transit use*. December 2014.

DOCTORAL STUDENTS (Dissertation Committee Member)

- Youngbin Lym. *Three essays on unveiling complex urban phenomena: toward improved understanding*. Graduated 2020.
- Emre Tepe. *Statistical modeling and simulation of land development dynamics*. Graduated 2016.
- Mi Young Park. *Modeling population and land use change within the metropolitan areas of Ohio*. Graduated 2016.
- Chih-Hao Wang. *Land-Use Allocation and Earthquake Damage Mitigation: A Combined Spatial Statistics and Optimization Approach*. Graduated 2013.
- Jae Choon Lee. *The Impact of Urban Form Changes on Transportation Emissions: A Novel Focus on Air Pollutants and CO2*. Graduated 2012.
- Chunhi Ren. *Modeling Poverty Dynamics in Moderate-Poverty Neighborhoods: A Multi-Level Approach*. Graduated 2011.
- David Jung-Hwi. *Optimal Regional Allocation of Population and Employment: Application of a Spatial Interaction Commuting Model*. Graduated 2010.
- Youngkook Kim. *Impacts of Transportation, Land Uses, and Meteorology on Urban Air Quality*. Graduated 2010.

POSTDOCTORAL SUPERVISION

- Jee Young Lee, PhD (2016- 2019)

ACADEMIC JOB PLACEMENT

- Yujin Park, tenure-track assistant professor, Clemson University (2020- present)
- Kailai Wang, tenure-track assistant professor, University of Houston (2020- present)
- Na Chen, tenure-track assistant professor, University of Cincinnati (2016- present)
- Mi Namgung, tenure-track assistant professor, Pusan National University (2015- present)

TEACHING

OSU - Under Semesters (2012-present)

Planning Dissertations and Theses from Start to Finish (CRP 7300)	Spring 2019
Planning Techniques (CRP 6500)	Spring 2013-2021
Urban Transportation Demand Forecasting (CRP/CEGE 5700)	Fall 2016-2020
Analyzing the City (CRP 3100)	Fall 2012-2017
Non-motorized Transportation Planning (CRP 6810)	Spring 2013-2015

OSU- Under Quarters (2009-2012)

Project and Policy Analysis (CRP 601)	Winter 2010-2012
Data and Forecasting (CRP 340)	Fall 2010-2011
Introduction to Planning for Sustainable Development (CRP724)	Spring 2011
Analysis of Energy Factors in Planning (CRP 720)	Winter 2010 & 2011
Non-motorized Transportation Planning (CRP 694)	Fall 2009-2011
Sustainable Development Studio (CRP 824)	Spring 2010

UMD (2007-2008)

Co-taught "Urban Transportation Planning" (Graduate level)
Co-taught "Recent Developments in Urban Studies: Planning for Non-motorized Transportation Modes" (Graduate level)

METU (2002-2004)

Teaching Assistant "Principles of Transportation and Traffic Engineering" (Undergraduate)

OTHER EXPERIENCE

2007-2008	Department of Transportation Services (DOTS), UMD, Graduate Research Assistant
2006-2007	EMBARQ, World Resources Institute (WRI), Center for Sustainable Transport, Washington DC. Research Analyst
2005-2006	National Center for Smart Growth, UMD, Graduate Research Assistant
2004-2005	Transportation Division, CEE, UMD, Graduate Research Assistant
2002-2004	Transportation Division, Civil Engineering Department, METU, Teaching and Research Assistant
2001	Bouygues-Offshore, Paris, France, Civil Engineering Intern
2000	Tepe Construction Industry CO. INC, Ankara, Turkey, Civil Engineering Intern

CONSULTANCIES

2010 Bus User Perception Study, World Resources Institute
 2012-2013 Understanding Market Segments for Current and Future Residential Location and Travel Choices, Portland State University, (Consultant for Professor Kelly J. Clifton)

AWARDS & ACHIEVEMENTS

2008 Ann G. Wylie Dissertation Fellowship, UMD
 2007 Eisenhower Graduate Fellowship
 2004 Graduate Scholarship, WTS (Women's Transportation Seminar), DC Chapter
 2004 Fellowship, awarded to first choice incoming graduate students, Maryland Transportation Initiative & Civil and Environmental Engineering
 1998-2002 Two 'High Honor' and four 'Honor' degrees, METU, Turkey

SERVICE

Profession

2019 Proposal Reviewer, National Institute for Transportation and Communities (NITC)
 2018- Member, National Academies of Science, Transportation Research Board Committee on Bicycle Transportation (ANF20) (Paper review coordinator in 2019)
 2017-2020 Transportation Track Co-Chair, Association of Collegiate Schools of Planning (ACSP)
 2015- Editor, Journal of Planning Literature
 2011- Member, National Academies of Science, Transportation Research Board Committee on Traveler Behavior and Values (ADB10)
 2011-2018 Member, National Academies of Science, Transportation Research Board Committee on Women's Issues (ABE70)
 2011 Member, Women's Transportation Seminar, Columbus Chapter

Section

2015- Ph.D. Program Chair, City & Regional Planning
 2018-2019 Chair, Graduate Studies Committee, City & Regional Planning
 2019 Spring Probationary faculty review committee (member on one, chair on two Assist. Prof. Annual Review Committees)
 2018 Spring Probationary faculty review committee (member on one, chair on one Assist. Prof. Annual Review Committees)
 2017-2018 Chair for the Tools and Techniques Committee (This committee reviewed and revised the methods courses of the master's curriculum)
 2017 Spring Probationary faculty review committee (member on one, chair on two Assist. Prof. Annual Review Committees)
 2016-2017 Search Committee Chair for a targeted assistant professor position
 2015-2016 Search Committee Co-Chair, Assistant Professor, Smart Urban Systems
 2015-2016 Search Committee Co-Chair, Assistant Professor, Risk and Resilience
 2013-2015 Master's Program Chair, City & Regional Planning

School

2018-2019 Member, Academic Affairs Committee, Knowlton School
2018-2019 Member, Promotion & Tenure Committee, Knowlton School
2017 Spring Member, Promotion & Tenure Committee, Knowlton School

College

2020 Member, Graduate Fellowship Review Committee, College of Engineering
2015- Member, Research Committee, College of Engineering
2016-2018 Member, Faculty Professional Leave Committee, College of Engineering
2011-2018 Member, Faculty Oversight Committee, Center for Aviation Studies (CAS), OSU

University

2020-2021 Member, University Fellowship Review Committee, OSU
2019- Research Program Lead, Sustainability Institute, OSU
2019 Participating Faculty, Interdisciplinary Postdoctoral Research Program, The Steam Factory, OSU
2019-2020 Member, CURA (Center for Urban and Regional Analysis) Advisory Board
2018-2019 Search Committee Member (Sustainability Institute Representative) for an assistant professor position at the Geography Department
2017-2018 Search Committee Member (SRE Representative) for an assistant professor position at the Geography Department
2017-2018 Faculty Affiliate, SRE (Sustainable & Resilient Economy) Discovery Theme
2017-2018 Member, Smart City Columbus, OSU Core Research Team
2015- Member, Parking Advisory Committee, OSU
2010-2012 Member, Bicycle Advisory Committee, OSU

REVIEW ACTIVITY (Manuscript Reviewer)

Transport Geography
Transportation
Transport Policy
Urban Studies
Transportation Research Part A: Policy and Practice
Transportation Research Part D: Transport and Environment
Journal of Air Transport Management
TRB (Transportation Research Board)
International Journal of Sustainable Transportation
Journal of Transport and Land Use
Computers, Environment and Urban Systems