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EDUCATION

2016, Ph.D. in Metropolitan Planning, Policy, and Design, University of Utah
2011, M.Eng. in Cartography and Geographic Information Engineering, China University of Geosciences
2008, B.S. in Geographic Information System (GIS), China University of Geosciences

EMPLOYMENT

Assistant professor, Department of Planning and Urban Studies, University of New Orleans, 2018-
Affiliate faculty, University of New Orleans Transportation Institute, 2018-
Postdoctoral fellow, Metropolitan Research Center, University of Utah, 2017
Research assistant, Metropolitan Research Center, University of Utah, 2012-2016

RESEARCH

1. Evaluation of the Intersection Configurations on Protected Bike Lanes: A Case Study. **Co-PI**, 2017-2018, Utah Department of Transportation, \$20,000.
2. Centers Research for Salt Lake County. **Team member**, 2017-2018, Wasatch Front Regional Council, Utah Transit Authority, and Salt Lake County, \$30,634.
3. Key Enhancements to the WFRC/MAG Four-Step Travel Demand Model. **Co-PI**, 2015-2018, National Institute for Transportation and Communities, Utah Department of Transportation, and Wasatch Front Regional Council, \$165,000.
4. Trip and Parking Generation at Transit-Oriented Development, Phase 2. **Team Lead**, 2016-2017, Utah Department of Transportation, \$43,500.
5. Does Compact Development Increase or Reduce Traffic Congestion? **Co-PI**, 2016-2017, National Institute for Transportation and Communities and Utah Department of Transportation, \$56,000.
6. Quantifying Effects of Spatial Coverage and Temporal Frequency of Transit Service on Ridership. **Team member**, 2016-2017, Utah Transit Authority, \$20,000.
7. Summit County Transportation Capacity Analysis. **Team member**, 2016, Summit County, Utah, \$59,453.
8. Palm Beach County Internal Trip Capture Study for Mixed Use Developments. **Co-PI**, 2016, Florida Atlantic University, \$8,000.

9. Understanding Transit Ridership: Using Regression Analysis to Generate Ridership Forecasts for Better Performance Measurement of Transit Agencies. *Team member*, 2016, Utah Transit Authority, \$15,000.
10. Trip and Parking Generation at Transit-Oriented Development. *Team member*, 2014-2015, National Institute for Transportation and Communities, \$164,000.
11. Effects of Light-Rail Transit on Traffic in a Travel Corridor. *Team member*, 2012-2013, National Institute for Transportation and Communities and Utah Transit Authority, \$101,318.

PUBLICATION

Peer-Reviewed Journal Articles

1. **Tian, G.**, Park, K., & Ewing, R. (2018). Trip and Parking Generation Rates for Different Housing Types: Effects of Compact Development. *Urban Studies*. (In press)
2. Park, K., Ewing, R., Scheer, B., & **Tian, G.**, (2018). The Impacts of Built Environment Characteristics of Rail Station Areas on Household Travel Behavior. *Cities*, 74: 277-283. DOI: <https://doi.org/10.1016/j.cities.2017.12.015>.
3. Ewing, R., **Tian, G.**, & Lyons, T. (2018). Does Compact Development Increase or Reduce Traffic Congestion? *Cities*, 72: 94-101. DOI: <https://doi.org/10.1016/j.cities.2017.08.010>
4. **Tian, G.**, Wei, Y.H.D., & Li, H. (2017). Effects of Accessibility and Environmental Health Risk on Housing price: a Case of Salt Lake County, Utah. *Applied Geography*, 89: 12-21. DOI: <https://doi.org/10.1016/j.apgeog.2017.09.010>
5. **Tian, G.**, & Ewing, R. (2017). A Walk Trip Generation Model for Portland, OR. *Transportation Research Part D: Transport and Environment*, 52(2017): 340-353. DOI: 10.1016/j.trd.2017.03.017
6. Ewing, R., Hamidi, S., **Tian, G.**, Proffitt, D., Tonin, S., & Fregolent, L. (2017). Testing Newman and Kenworthy's Theory of Density and Automobile Dependence. *Journal of Planning Education and Research*. DOI: 10.1177/0739456X16688767 (Published online first)
7. Ewing, R., **Tian, G.**, Lyons, T., & Terzano, K. (2017). Trip and Parking Generation at Transit-Oriented Developments: Five US Case Studies. *Landscape and Urban Planning*, 160: 69-78. DOI: <http://dx.doi.org/10.1016/j.landurbplan.2016.12.002>
8. **Tian, G.**, Ewing, R., Weinberger, R., et al. (2017). Trip and Parking Generation at Transit-Oriented Developments – A Case Study of Redmond TOD, Seattle Region. *Transportation*. 44(5): 1235-1254. DOI: 10.1007/s11116-016-9702-x
9. Li, H., Wei, Y. H. D., Yu, Z., & **Tian, G.** (2016). Amenity, Accessibility and Housing Values in Metropolitan USA: A Study of Salt Lake County, Utah. *Cities*, 59:113-125. DOI: 10.1016/j.cities.2016.07.001
10. **Tian, G.**, Ewing, R., White, A., Hamidi, S., Walters, J., Goates, J. P., & Joyce, A. (2015). Traffic Generated by Mixed-Use Developments—13-Region Study Using Consistent Built Environment Measures. *Transportation Research Record: Journal of the Transportation Research Board*, 2500: 116-124. DOI: 10.3141/2500-14
11. Ewing, R., **Tian, G.**, Goats, J. P., Zhang, M., Greenwald, M. J., Joyce, A., Kircher, J., & Greene, W. (2015). Varying Influences of the Built Environment on Household Travel in 15 Diverse

Regions of the United States. *Urban Studies*, 52(13): 2330-2348. DOI: 10.1177/0042098014560991.

12. **Tian, G.**, Ewing, R. & Greene, W. (2015). Desire for Smart Growth: a Residential Choice Survey of Stated Preferences in the Salt Lake Region, Utah. *Housing Policy Debate*, 25(3): 446-462. DOI:10.1080/10511482.2014.971333
13. Ewing, R., **Tian, G.**, Spain, A., & Goates, J. P. (2014). Effects of Light-Rail Transit on Traffic in a Travel Corridor. *Journal of Public Transportation*, 17(4): 93-113.
14. **Tian, G.**, Xie, Z. & Wu, L. (2010). Algorithm for splitting polygon based on simple data model. *Geography and Geo-information Science*, 26(1): 24-28. (In Chinese)

Articles under Peer Review

15. Stevens, M., Park, K., **Tian, G.**, Ewing, R., & Kim, K. Why Do Some Articles in Planning Journals Get Cited More Than Others? (*Journal of Planning Research and Education*, major revision)
16. Ewing, R., **Tian, G.**, Park, K., & Stinger, P., J. Comparative Case Studies: Trip and Parking Generation at Orenco Station TOD, Portland Region and Station Park TAD, Salt Lake City Region. (*Journal of Planning Research and Education*, under review)
17. Li, H., Wei, D.Y.H., Wu, Y.Y., & **Tian, G.** Analyzing Housing Prices in Shanghai with Open Data: Amenity, Accessibility and Urban Structure. (*Landscape and Urban Planning*, under review)
18. Lyons, T, & **Tian, G.** Social Equity in Transit Service in Salt Lake County, Utah: A new Methodology for Quantifying Social Equity in Transit Service. (*Transport Policy*, under review)

Books and Book Chapters

19. Ewing, R, **Tian, G.**, & Park, K. (Eds.). *Quantitative Research Methods for Planners*, SAGE Publishing. (under review)
20. **Tian, G.**, Musunuru, A., & Ewing, R. Chapter 9: Correlation. In R. Ewing, K. Park, & G. Tian (Eds.), *Quantitative Research Methods for Planners*. SAGE Publishing. (under review)
21. Stoker, P., **Tian, G.**, & Kim, J. Y. Chapter 11: Analysis of Variance (ANOVA). In R. Ewing, K. Park, & G. Tian (Eds.), *Quantitative Research Methods for Planners*. SAGE Publishing. (under review)

Reports and others

22. Ewing, R., Miller, M., Park, K., Dillon, A, & **Tian, G.** (2018). Trip and Parking Generation Method Documentation for Point of Mountain Transportation Study. Wasatch Front Regional Council, January.
23. Lyons, T., Ewing, R., & **Tian, G.** (2017). Coverage vs Frequency: Is Spatial Coverage or Temporal Frequency More Impactful on Transit Ridership? Report No. UT-17.19, Utah Department of Transportation, November. Available at:
<http://www.udot.utah.gov/main/uconowner.gf?n=41661407681579710>

24. Ewing, R., **Tian, G.**, Park, K., Stinger, P., & Southgate, J. (2017). Comparative Case Studies: Trip and Parking Generation at Orenco Station TOD, Portland Region and Station Park TAD, Salt Lake City Region. Report No. UT-17.18, Utah Department of Transportation, October.
25. Ewing, R., **Tian, G.**, & Lyons, T. (2017). Does Compact Development Increase or Reduce Traffic Congestion? Report No. NITC-RR-1020, National Institute for Transportation and Communities, Portland; Report No. UT-17.20, Utah Department of Transportation, October. Available at:
http://ppms.trec.pdx.edu/media/project_files/NITC_1020_Does_Compact_Development_Increase_Reduce_Traffic_Congestion.pdf
<https://www.udot.utah.gov/main/uconowner.gf?n=38759828822119897>
26. Ewing, R., Terzano, K., Scheer, B., **Tian, G.**, & Farley, C. (2017). Final Report: Cline Dahl Site Feasibility. Summit County Economic Development, Utah, April.
27. **Tian, G.**, & Ewing, R. (2017). Palm Beach County Internal Trip Capture Study for Mixed Use Developments. Center for Urban & Environmental Solutions, Florida Atlantic University. Available at: <http://cues.fau.edu/cues/wp-content/uploads/sites/16/CUES-Reid-Ewing-and-Guang-Tian-Palm-Beach-County-Internal-Trip-Capture-Study.pdf>
28. Ewing, R., **Tian, G.**, Lyons, T., & ... (2016). Trip and Parking Generation at Transit Oriented Development. Report No. NITC-RR-767, National Institute for Transportation and Communities, Portland, December. Available at:
http://ppms.trec.pdx.edu/media/project_files/NITC_767_Trip_and_Parking_Generation_at_Transit-Oriented_Developments.pdf
29. Ewing, R., **Tian, G.**, & Spain, A. (2013). Effect of Light-Rail Transit on Traffic in a Travel Corridor. Report No. NITC-RR-611, National Institute for Transportation and Communities, Portland, June. Available at: http://ppms.trec.pdx.edu/media/project_files/NITC-RR-611_Effect_of_Light-Rail_Transit_on_Traffic_in_a_Travel_Corridor.pdf

ACADEMIC AND PROFESSIONAL PRESENTATIONS

1. “Does Urban Form Matter to Keep Seniors Active? – Evidence from 23 Diverse Regions of the United States”, presented at the *Transportation Research Board (TRB) 97th Annual Meeting*, Washington D.C., 2018. (with Ewing, R.)
2. “Walk behavior: Evidence from 23 Diverse Regions of the United States”, presented at the *Utah Pedestrian Summit 2017*, Salt Lake City, Utah, 2017. (with Ewing, R., and Banerjee, D.)
3. “Understanding TOD, TAD & MXD”, presented at the *American Planning Association (APA) Utah 2017 Fall Conference*, Park City, Utah, 2017. (with Ewing, R., and Park, K.)
4. “Trip and Parking Generation Rates for Different Housing Types: Effects of Compact Development”, presented at the *57th Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Denver, CO, 2017.
5. “Does urban form matter to promote active travel to school?”, presented at the *2017 Utah Chapter of the Society for Public Health Education Conference*, Ogden, Utah, 2017.

6. “Does Compact Development Increase or Reduce Traffic Congestion?”, posted to the *Transportation and Community Summit* by National Institute for Transportation and Communities, Portland State University, 2017.
7. “Coverage or Frequency: Which Characteristics of Transit Services are Most Effective in Spurring Ridership?”, presented at the *APA Utah 2017 Spring Conference*, Brigham City, Utah, 2017. (with Lyons, T.)
8. “Understanding Transit Ridership in Utah: Improving Methodologies, Developing an Accessible Estimation Technique, and Establishing New Relationships”, presented at the *Transportation Research Board (TRB) 96th Annual Meeting*, Washington D.C., 2017. (with Lyons, T.)
9. “Does Compact Development Increase or Reduce Traffic Congestion?”, presented at the *TRB 96th Annual Meeting*, Washington D.C., 2017. (with Ewing, R., Lyons, T., and Terzano, K.)
10. “A Vehicle Ownership Model for Conventional Four-Step Travel Models”, presented at the *TRB 96th Annual Meeting*, Washington D.C., 2017. (with Ewing, R.)
11. “Testing the Theories of Newman and Kenworthy”, presented at the *TRB 96th Annual Meeting*, Washington D.C., 2017. (with Ewing, R., Hamidi, S., and Proffitt, D.)
12. “Trip and Parking Generation in Transit-Oriented Developments”, presented at the *TRB 96th Annual Meeting*, Washington D.C., 2017. (with Ewing, R., Lyons, T., and Proffitt, D.)
13. “Amenity, Accessibility and Housing Values in Metropolitan USA: A Study of Salt Lake County”, presented at *Salt Lake GIS Users Group (SLUG) Meeting*, Salt Lake City, UT, 2016. (with Li, H.)
14. “Does Compact Development Increase or Reduce Traffic Congestion?”, presented at the *56th ACSP Annual Conference*, Portland, OR, 2016.
15. “Amenity, Accessibility and Housing Values in Metropolitan USA: A Study of Salt Lake County”, presented at the *Geography Colloquium of University of Utah*, Salt Lake City, UT, 2016. (with Li, H.)
16. “Trip and Parking Generation in Transit-Oriented Developments”, presented at the *APA Utah 2016 Fall Conference*, Farmington, Utah, 2016. (with Ewing, R., and Stinger, P.)
17. “Trip and Parking Generation in Transit-Oriented Developments”, posted at the *Transportation and Community Summit* by National Institute for Transportation and Communities, Portland State University, 2016.
18. “Trip and Parking Generation in Transit-Oriented Developments”, presented at the *APA 2016 National Planning Conference*, Phoenix, AZ, 2016. (with Ewing, R., Weinberger, R. and Lyons, T.)
19. “Does a TOD need a park?”, presented at the *APA 2016 National Planning Conference*, Phoenix, 2016. (with Park, K and Ewing, R.)
20. “Trip and Parking Generation at Transit-Oriented Developments – A Case Study of Redmond TOD, Seattle Region”, posted at the *TRB 95th Annual Meeting*, Washington D.C., 2016.
21. “Student Travel: Evidence from 13 Diverse Regions of the United States”, presented to the *55th ACSP Annual Conference*, Houston, TX, 2015.
22. “Travel and Built Environment: Evidence from 15 Diverse Regions of the United States”, presented at the *Transportation Three Minute Thesis at Transportation and Communities Summit 2015*, Portland, OR, 2015.

23. “A Walk Trip Generation Model for Portland, OR”, posted at the *TRB 94th Annual Meeting*, Washington D.C., 2015.
24. “Traffic Generated by Mixed-Use Developments—13-Region Study Using Consistent Built Environment Measures”, presented at the *TRB 94th Annual Meeting*, Washington D.C., 2015.
25. “A Walk Trip Generation Model for Portland, OR”, presented at the *ACSP 2014 54th Annual Conference* in Center City, Philadelphia, PA, 2014.
26. “Interurban and intraurban: Rail and Bike”, presented at the *2014 Utah APA / Western Planner Joint Planning Conference*, Salt Lake City, 2014. (with Miller, M. and Kim, K.)
27. “Varying Influences of the Built Environment on Household Travel in Ten Diverse Regions of the United States”, presented at the *TRB 93th Annual Meeting*, Washington D.C., 2014.
28. “Residential Preference and Neighborhood Accessibility in Salt Lake City, Utah”, posted at the *TRB 93th Annual Meeting*, Washington D.C., 2014.
29. “A web based scenario planning framework for public participation”, presented at the *7th International Association for China Planning (IACP) Conference*, Shanghai, China, 2013.
30. “A framework for correcting geographical boundary inconsistency”, presented at the *18th International Conference on Geoinformatics*, Beijing, China, 2010.
31. “An intersection points determining algorithm for polygon overlay operation”, presented at the *2nd International Conference in Computer Engineering and Technology*, Chengdu, China, 2010.

TEACHING

1. URBN 6005: Statistics for Urban Analysis, University of New Orleans, 2018.
2. MURP 4081/5081: Information Technology for the Planning Profession, University of New Orleans, 2018.
3. CMP 4450/6450: GIS in Planning, University of Utah, 2017.
4. CMP 4960/6960: Intermediate Methods in GIS for Planners, University of Utah, 2017.
5. CMP 4010: Research Methods for Urban Ecology, University of Utah, 2015.

REVIEWER FOR

1. Center for Transportation Equity Decisions and Dollars
2. Cities
3. COTA International Conference for Transportation Professionals
4. Environment and Planning B: Urban Analytics and City Science
5. Indoor and Built Environment
6. Journal of Planning Education and Research
7. Journal of Transport and Land Use
8. Research in Transportation Economics
9. Transportation Letters: the International Journal of Transportation Research
10. Transportation Research Board annual meeting, The National Academies of Sciences engineering medicine
11. Transportation Research Part A: Policy and Practice

12. Transportation Research Part D: Transport and Environment
13. Urban Affairs Review
14. Urban Studies

HONORS & AWARDS

1. 2017, ACSP Student Award - Barclay Gibbs Jones Award for Best Dissertation in Planning, shortlist.
2. 2016, September, the second place of the poster competition at the Transportation and Community Summit of National Institute for Transportation and Communities.
3. 2016, May, Land Economics Foundation (LEF) of Lambda Alpha International (LAI).
4. 2016, Arthur C. Nelson & Clark Ivory Doctoral Scholarship Medal.
5. 2016, Scholarship for Planning Students to Attend APA National Conference in Phoenix, American Planning Association Utah Chapter.
6. 2015, Graduate research fellowship, University of Utah.
7. 2015, Outstanding research award, Chinese Association for Science and Technology in Utah.
8. 2014, IACP travel award, the 8th International Association for China Planning (IACP).
9. 2014, ITE Utah Chapter 2014 Best Student Competition, the three finalists.
10. 2011, Excellent graduate, China University of Geosciences, China.
11. 2008, The second prize of outstanding undergraduate graduation project (thesis), Hubei province, China.
12. 2006, National Scholarship Awards, China University of Geosciences, China.