

# Christopher R. Cherry, PhD. PE

Associate Professor

University of Tennessee-Department of Civil and Environmental Engineering

321 JD Tickle Building

Knoxville, TN 37996-2313

865-974-7710/865-684-8106

cherry@utk.edu

<http://chrisrcherry.com>

[www.LEVresearch.com](http://www.LEVresearch.com)

[www.cycleUshare.com](http://www.cycleUshare.com)

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## **EDUCATION**

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA, Ph.D. in Civil and Environmental Engineering-Transportation. Minors in City and Regional Planning and Economics (Econometrics). May 2007.

*Dissertation Topic: Environmental, Safety and Mobility Implications of Electric Two-Wheeler Use In China*

UNIVERSITY OF ARIZONA, Tucson, AZ, Master of Science in Civil Engineering-Transportation. December 2003.

UNIVERSITY OF ARIZONA, Tucson, AZ, Bachelor of Science in Civil Engineering. December 2000.

## **RESEARCH INTERESTS**

- Emerging Vehicle Technology
- Sustainable Transportation
- Non-Motorized Transportation Safety
- Travel Behavior and Demand
- Transportation Economics
- Multimodal Transportation Planning and Operations
- Transit Security
- Shared Mobility
- Commercial Vehicle Safety

## **LEADERSHIP POSITIONS**

- Director of Light Electric Vehicle Education and Research (LEVER) Initiative, an international consortium of researchers and industry on lightweight and low speed EV research.
- Transportation Research Board-Bicycle Transportation (ANF20)-Member
- Transportation Research Board-Chair of Joint Subcommittee (ANF10, ANF20, ANF30, ANB40, AP020) of Emerging Vehicle Technologies
- Journal of Transportation Safety & Security – Bicycle and Pedestrian Area Editor
- International Journal of Sustainable Transportation – Editorial Advisory Board
- Transportation Research Part D Transport and the Environment – Editorial Advisory Board
- City of Knoxville Greenway Commission (2012-present) Vice-Chair (Appointed by Mayor Rogero)
- City of Knoxville Transportation and Mobility Committee (Roads and Streets Subcommittee Chair) - (Appointed by City Council) (2008-2010)

## **PUBLICATIONS**

Web of Science/ResearcherID profile: <http://www.researcherid.com/rid/B-3270-2009>

Google Scholar profile: <https://scholar.google.com/citations?user=I3wi1-EAAAAJ&hl=en>

### **Journal Articles (supervised students underlined)**

*Submitted Articles Under Review*

1. Dhakal, N., C. Cherry, B. Appleyard, W. Riggs, J. McKinstry, S. Tabrizizadeh (2018) *New and Unique Aspects of University Campus Transportation Data to Improve Planning Methods*. Transportation Research Record, Journal of the Transportation Research Record (In Review)

2. Weber, J., M. Azad, W. Riggs, C. Cherry (2018) The convergence of smartphone apps and competition to increase cycling. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
3. Hezaveh, A.M., K. Boakye, C. Cherry, S. Nambisan (2018) Factors influencing seat belt use in Tennessee: A self-report study. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
4. Boggs, A., A.M. Hezaveh, C. Cherry (2018) Commercial Vehicle Parking Influence on Interstate Ramp Crashes. *Transportation Research Record, Journal of the Transportation Research Record* (In Review).
5. Hezaveh, A.M., M. Azad, C. Cherry (2018) Pedestrian Crashes in Tennessee: A Data Mining Approach. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
6. Cui, C., Y. Qin, C. Cherry, Z. Ling, F. Guo, J. Xiong (2018) Effects of emotionally charged advertisements on driver behavior in risky scenarios: A driving simulator study. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
7. Hui, Y., Y. Qin, Z. Ling, C. Cherry, J. Xiong (2018) Drivers' mental workload in simulated traffic flow conditions. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
8. Zhang, J., Y. Qin, C. Cherry, Z. Ling, S. Zhang, J. Xiong (2018) The impact of speed-calming measures on driving behavior and eye movement at an uncontrolled intersection: A case study in a rural-urban fringe area. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
9. Zhang, Y., H. Qi, H. Li, C. Cherry, L. Han (2018) Scheduling for timely passenger delivery in a large scale ride sharing system. *Transportation Research Record, Journal of the Transportation Research Record* (In Review)
10. Yang, H., C. Cherry, X. Liu, F. Su, Z. Ling, Z. Pannell (2017) *Multimodal crash severity, fault, and frequency analysis of road users in China: A study based on self-reported surveys*. PLOS ONE. (In Review)
11. Ling, Z., C. Cherry, J. Macarthur, J. Weinert (2017) *What are the Differences of Cycling Experiences and Perceptions between E-bike and Bicycle Users in the United States*. Sustainability (In Review).
12. Lu, X., H. Yang, C. Cherry (2017) *Spatial Variations in Active Mode Volume at Intersections: A Local Analysis Utilizing Geographically Weighted Regression Approach*. *Journal of Transport Geography*. (In Review)
13. Yang, H., C. Cherry, F. Su, Z. Ling, Z. Pannell, Y. Li, Z. Fu (2017) *Underreporting, Crash Severity, and Fault Assignment of Minor Crashes in China—A Study Based on Self-Reported Surveys*. *International Journal of Injury Control and Safety Promotion* (in review)
14. Hezaveh, A.M., M.F. Zavareh, T. Nordfjærn, C. Cherry (2017) *Errors and Violations in Relation to Bicyclists Crash Risks: Development of the Bicycle Rider Behavior Questionnaire (BRBQ)*. *Journal of Transport & Health* (in review).
15. Yoon, T., C. Cherry (2017) *Carsharing Demand Estimation and Fleet Simulation with EV Adoption*. *Journal of Cleaner Production* (in review)

#### *In Press or Published Articles*

1. Rose, W., C. Autry, J. Bell, C. Cherry (2017) *Urban Logistics: Introducing Key Concepts, Reviewing the Literature, and Deriving a Conceptual Framework*. *Transportation Journal* (in press)
2. Langford, B.C., C. Cherry, D. Bassett, E. Fitzhugh, N. Dhakal (2017) *Comparison of Walking, Conventional Bicycles, and Pedal Assist Electric Bikes: Effects on Physical Activity and Travel Time*. *Journal of Transport & Health*. <http://dx.doi.org/10.1016/j.jth.2017.06.002>.
3. Ling, Z., C. Cherry, N. Dhakal (2017) *Factors influencing single-bicycle crashes at skewed rail grade crossings*. *Journal of Transport & Health*. DOI: 10.1016/j.jth.2017.01.004.
4. Yoon, T., C. Cherry (2017) *One-way and round-trip carsharing: A stated preference experiment in Beijing*. *Transportation Research Part D*. DOI 10.1016/j.trd.2017.04.009
5. Gamez-Perez, K., P. Arroyo-Lopez, C. Cherry (2017) *Defining a primary market for bikesharing programs: a study of habits and usage intentions in Leon, Mexico*. *Transportation Research Record: Journal of the Transportation Research Board*. 2634. 10.3141/2634-09
6. Yang, H., C. Cherry, R. Zaretski, M. Ryerson (2016) *A GIS - based method to identify cost - effective routes for rural deviated fixed route transit*. *Journal of Advanced Transportation*. DOI: 10.1002/atr.1428.

7. Yang, H., C. Cherry (2016) *Use Characteristics and Demographics of Rural Transit Riders: A Case Study in Tennessee*. Transportation Planning and Technology. 40(2). Pg 213-227.
8. Yang, X., J. Day, B.C. Langford, C. Cherry, L. Jones, S. Han, J. Sun (2016) *Commute Responses to Employment Decentralization: Anticipated versus Actual Mode Choice Behaviors of New Town Employees in Kunming, China*. Transportation Research Part D. DOI: 10.1016/j.trd.2016.11.012
9. Khatri, R., C. Cherry, S. Nambisan, L. Han (2016) *Modeling route choice of bikeshare users with GPS data*. Transportation Research Record: Journal of the Transportation Research Board. 2587. 10.3141/2587-17.
10. Campbell, A., C. Cherry, M. Ryerson, L. Jones, X. Yang (2016) *Factors influencing the choice of shared bicycles and shared electric bikes in Beijing*. Transportation Research Part C. 64. Pg 399-414. 10.1016/j.trc.2016.03.004
11. Cherry, C., H. Yang, L. Jones, M. He (2016) *Dynamics of Electric Bike Ownership and Use in Kunming China*. Transport Policy. 45, Pg 127-135. doi: 10.1016/j.tranpol.2015.09.007.
12. Ji, S., C. Cherry, W. Zhou, R. Sawhney, Y. Wu, S. Cai, S. Wang, J. Marshall (2015) *Environmental Justice Aspects of Exposure to PM<sub>2.5</sub> Emissions from Electric Vehicle Use in China*. Environmental Science and Technology. 49(24) Pg. 13912-13920.
13. Ling, Z., C. Cherry, Y. Ni, K. Li (2015) *Pedestrian Level of Service at Signalized Intersections in China*. Transportation Research Record: Journal of the Transportation Research Board. 2519 pg 75-81. Doi: 10.3141/2519-09
14. Ling Z. C. Cherry. H. Yang, L. Jones (2015) *From e-bike to car: A study on factors influencing motorization of e-bike users across China*. Transportation Research Part D. 41, Pg. 50-63 doi: 10.1016/j.trd.2015.09.012
15. Han, L., S. Nambisan, E. Lemons, C. Cherry (2015) *Fair Representation of Transportation Research Record's Impacts: A Case Study on Journal Citation Reports' Impact Factor*. Transportation Research Record: Journal of the Transportation Research Board. 2480. pp 1-10.
16. Fishman, E., C. Cherry (2015) *E-bikes in the mainstream: Reviewing a decade of research*. Transport Reviews doi: 10.1080/01441647.2015.1069907
17. Langford, B.C., Chen, J. C. Cherry (2015) *Risky riding: naturalistic methods comparing safety behavior from conventional bicycle riders and electric bike riders*. Accident Analysis and Prevention, 82, 220-226.
18. Yoon, T., C. Cherry (2015) *Development of Bicycle Throw Distance Estimation Model Based on Akaike Information Criterion Statistical Method*. Journal of Ergonomics. S3-015, Pg 1-5.
19. Campbell, A., C. Cherry, M. Ryerson, L. Jones (2014) *Better pen-and-paper surveys for research in developing countries: A modified stated preference pivoting approach*. Transportation Research Record: Journal of the Transportation Research Board. 2405. Pg 42-48. 10.3141/2405-06
20. Wolff, D., E. Fitzhugh, D. Bassett, C. Cherry (2014) *Greenway siting and design: relationships with physical activity behaviors and user characteristics*. Journal of Physical Activity and Health. 11(6), Pg. 1105-1110.
21. Ji, S., C. Cherry, L. Han, D. Jordan (2014) *Electric Bike Sharing: Simulation of User Demand and System Availability*. Journal of Cleaner Production. 85. Pg. 250-257. 10.1016/j.jclepro.2013.09.024
22. Jones, L., C. Cherry, T. Vu, N. Quang (2013) *Estimating the Effect of Incentives on the Adoption of Electric Motorcycles: A Stated Choice Experiment in Vietnam*. Transportation Research Part A. 57. Pg. 1-11. 10.1016/j.tra.2013.09.003
23. Langford, B.C., C. Cherry, T. Yoon, S. Worley, D. Smith (2013) *North America's first electric bicycle share: A year of experience*. Transportation Research Record: Journal of the Transportation Research Board. 2387. Pg 120-128. 10.3141/2387-14.
24. van der Kuijp, T.J., L. Huang, C. Cherry (2013) *Health hazards of China's lead-acid battery industry: a review of its market drivers, production processes, and health impacts*. Environmental Health. 12(61) pg 1-10.
25. Yang, Q., L. Han, C. Cherry (2013) *Some measures for sustaining red-light camera programs and their negative impacts*. Transport Policy 29 pg 192-198.
26. Lu, W., L. Han, C. Cherry (2013) *Evaluation of Vehicular Communication Networks in a Car Sharing System*. International Journal of Intelligent Transportation Systems Research. 11(3). Pg 113-119. 10.1007/s13177-013-0060-1.

27. Ni, M.C., C. Cherry, E. Deakin (2012) *Conducting Transportation Survey Research in China: International Research Team Experiences and Best Practices*. Transportation Research Record: Journal of the Transportation Research Board 2317 pg 131-138.
28. Cherry, C., B. Donlon, X. Yan, S.E. Moore, J. Xiong (2012) *Illegal midblock pedestrian crossings in China: Gap acceptance, conflict, and crossing path analysis*. International Journal of Injury Control and Safety Promotion 19(4) pg. 320-330.
29. Cherry, C., T. Hill, J. Xiong (2012) *Assessing countermeasures designed to reduce hazards between bike lane occupants and right-turning automobiles in China*. Journal of Transportation Safety and Security 4 pg. 277-294.
30. Yang, H., C. Cherry (2012) *Statewide Rural-Urban Bus Travel Demand and Network Evaluation: An Application in Tennessee*. Journal of Public Transportation 15(3) pg. 97-111.
31. Cherry, C., L. Bordley, D. Stephens, J. Petrolino, J. Kelfer (2012) *Wireless Roadside Inspection of Commercial Motor Vehicles, Pilot Test of Technical System Performance*. Transportation Research Record: Journal of the Transportation Research Board 2281 pg. 109-118.
32. Cherry, C., A. Adelakun (2012) *Truck Driver Perceptions and Preferences: Congestion and Conflict, Managed Lanes, and Tolls*. Transport Policy 24 pg 1-9.
33. Ji, S., C. Cherry, M. Bechle, Y. Wu, J. Marshall (2012) *Electric Vehicles in China, Emissions and Health Impacts*. Environmental Science and Technology. 46(4) pg. 2018-2024.
34. Langford, B.C., C. Cherry (2012) *Transitioning a Bus Transit Fleet to Hydrogen Fuel: A Case Study of Knoxville Area Transit*. International Journal of Hydrogen Energy 37(3) pg. 2635-2643.
35. Gottesfeld, P., C. Cherry (2011) *Lead emissions from solar photovoltaic energy systems in China and India*. Energy Policy. 39(9). Pg 4939-4946.
36. Cherry, C., M. He (2010) *Alternative Methods of Measuring Operating Speed of Electric and Traditional Bikes in China-Implications for Travel Demand Models*. Journal of the Eastern Asia Society for Transportation Studies. 8. pg 1424-1436.
37. Cherry, C., P. Gottesfeld (2009) *Plans to distribute the next billion computers by 2015 creates lead pollution risk*. Journal of Cleaner Production. 17(18) pg 1620-1628.
38. Cherry, C., J. Weinert, X.M. Yang (2009) *Comparative Environmental Impacts of Electric Bikes in China*. Transportation Research Part D. 14(5) pg 281-290.
39. Cherry, C., M. Wachs, A. Loukatou-Sideris (2008) *Subway station design and management: Lessons from case studies of contemporary terrorist incidents*. Journal of Architectural and Planning Research. 25(1) pg 76-90.
40. Weinert, J.X., C.T. Ma, X.M. Yang, C. Cherry (2007) *The Transition to Electric Bikes in China: Effect on Travel Behavior, Mode Shift, and User Safety Perceptions in a Medium-Sized City*. Transportation Research Record. Journal of the Transportation Research Board 2038 pg 62-68.
41. Cherry, C., R. Cervero (2007) *Use Characteristics and Mode Choice Behavior of Electric Bike Users in China*. Transport Policy. 14(3) pg 247-257.
42. Weinert, J., C.T. Ma, C. Cherry (2007) *The Transition to Electric Bikes in China: History And Key Reasons For Rapid Growth*. Transportation. 34(3) pg 301-318.
43. Deakin, E., C. Cherry et al. (2006) *System Plan for California's Bay Area Regional Express Bus Service*. Transportation Research Record. Journal of the Transportation Research Board 1986.
44. Cherry, C., E. Deakin, S.B. Huey, N. Higgins (2006) *Systems-Level Approach to Sustainable Urban Arterial Revitalization: Case Study of San Pablo Avenue*. Transportation Research Record. Journal of the Transportation Research Board 1977 pg 206-213.
45. Cherry, C., M. Hickman, A. Garg (2006) *Design of a Map Based Transit Itinerary Planner*. Journal of Public Transportation. 9(2) pg 45-68.
46. Cherry, C. (2005) *Development of Duration Models to Determine Rolling Stock Fleet Size*. Journal of Public Transportation. 8(3) pg 57-70.
47. Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. Transportation Research Record. Journal of the Transportation Research Board 1925 pg 257-264.

## Technical Magazine Articles

1. Rose, G., C. Cherry (2012) *Regulating Emerging Light Electric Vehicles to Enhance Urban Transportation System Sustainability*. TR News Magazine. 280 pg. 33.
2. Cherry, C. (2010) *Electric Two-wheelers in China: Promise, Progress and Potential*. ACCESS Magazine. 37 pg 17-24.

## Book Chapters

1. Cherry, C. (2010) *Clarifying the Debate On Electric Two-Wheelers In China*. In *Electric Vehicles: Technology, Research and Development*. ISBN: 978-1-60741-142-0. Editor G. Raines. NOVA Publishers.

## Peer Reviewed Conference Proceedings/Abstracts

1. Yang, H., F. Su, X. Liu, C. Cherry, Y. Liu (2018) *Motivational factors underlying e-bike users' intention to run the red light*. 97<sup>th</sup> Annual Meeting of the Transportation Research Board (In Review)
2. Sultana, Z., S. Mishra, C. Cherry, M. Golias, S. Tabrizzadeh (2018) *Modeling frequency of demand response transit trips*. 97<sup>th</sup> Annual Meeting of the Transportation Research Board (In Review)
3. Jordan, S., S. Mishra, M. Golias, T. Welch, C. Cherry (2018) *Equity of transit connectivity in Tennessee cities*. 97<sup>th</sup> Annual Meeting of the Transportation Research Board (In Review)
4. Hezaveh, A.M., C. Cherry, O. Grembek, L. Merlin, L. Sandt (2017) *Better data integration to create a complete picture for cycling safety*. International Cycling Safety Conference. Davis CA. Sept 21-22, 2017
5. Cherry, C., J. MacArthur (2017) *Are E-bikes Unsafe? A review of European and North American Studies*. International Cycling Safety Conference. Davis CA. Sept 21-22, 2017.
6. Ling, Z., C. Cherry, N. Dhakal (2017) *Avoiding Railroad Crossing Hazards to Cyclists*. International Cycling Safety Conference. Davis CA. Sept 21-22, 2017
7. Azad, M., C. Cherry (2017) *Do e-bikes matter for bikeshare safety? Early evidence from Baltimore Bikeshare system*. International Cycling Safety Conference. Davis CA. Sept 21-22, 2017
8. Abdelqader, D., C. Cherry, S. Nambisan (2017) *A Transit-oriented Framework for Pedestrian Infrastructure Prioritization*. 96th Annual Meeting of the Transportation Research Board. Washington D.C. January 8-12, 2017.
9. Appleyard, B., S. Ryan, R. Schneider, O. Grembek, C. Cherry, S. Nambisan. (2017) *A National Research Agenda for Bicycle and Pedestrian Safety*. 96th Annual Meeting of the Transportation Research Board. Washington D.C. January 8-12, 2017.
10. Langford, B.C., C. Cherry, D. Bassett, E. Fitzhugh, N. Dhakal (2017) *Comparison of Walking, Conventional Bicycles, and Pedal Assist Electric Bikes: Effects on Physical Activity and Travel Time*. The 96th Annual Meeting of the Transportation Research Board. Washington D.C. January 8-12, 2017.
11. Ling, Z., C. Cherry, J. MacArthur, J. Weinert (2017) *Differences between cycling experiences and perceptions between e-bike and bicycle users in the United States*. The 96th Annual Meeting of the Transportation Research Board. Washington D.C. January 8-12, 2017.
12. Boggs, A., C. Cherry, N. Franceschetti, Z. Ling, S. Nambisan (2017) *Truck parking facilities and ramp parking: role of supply, demand, and ramp characteristics*. The 96th Annual Meeting of the Transportation Research Board. Washington D.C. January 8-12, 2017.
13. Dhakal, N., C. Cherry, Z. Ling (2016) *Big data brings new insights in bicycle safety analysis: An application of CyclePhilly data to assess wrong-way riding*. University Transportation Center Spotlight Conference. Washington DC. December 1-2, 2016.
14. Cherry, C., J. MacArthur, J. (2017) *E-bikes and safety: a review of the foundational empirical studies*. University Transportation Center Spotlight Conference. Washington DC. December 1-2, 2016.
15. M. Lommele (2016) *Electrifying Your Ride: Is Technology the Solution to Getting More People Biking?* ProWalk ProBike ProPlace. Vancouver Canada September 13-14, 2016.
16. Lim, H., G. Williams, D. Abdelqader, J. Amagliani, Z. Ling, D. Priester, C. Cherry (2016) *An alternative Approach for Forecasting Parking Volumes*. 14th World Conference on Transportation Research, Shanghai, 2016 Transportation Research Procedia. Volume 25, 2017, Pages 4171-4184.
17. Yoon, T., C. Cherry (2016) *Investigating the feasibility of electric vehicle carsharing: A case study of Beijing, China*. 14th World Conference on Transportation Research, Shanghai, 2016
18. Yang, X., J. Day, B.C. Langford, C. Cherry, L. Jones, S. Han (2016) *Stated versus revealed residential*

- location choices in response to job resettlement to new towns: a case study of Kunming, China.* World Conference on Transport Research. Shanghai July 10-15, 2016.
19. Ling, Z., C. Cherry, Z. Pannell, F. Tuhaye, K. Robinson (2016) *What is commercial motor driver parking perception and attitude to smartphone technology? A study in the Southeast United States.* 2016 UTC Conference for the Southeastern region, Knoxville TN. March 31-April 1, 2016.
  20. Cherry, C., Z. Ling, H. Yang, L. Jones (2016) E-bike ownership and factors influencing motorization of e-bike users –A series of studies in China. Workshop on Electric Bike Commuting. Ghent Belgium June 9-10, 2016
  21. Cherry, C., Z. Ling, J. MacArthur (2016) Consumer attitude toward e-bikes: a review of three studies in North America. Workshop on Electric Bike Commuting. Ghent Belgium June 9-10, 2016
  22. Autry, C., W. Rose, J. Bell, C. Cherry (2016) *Urban Maneuverability and Redundancy: How infrastructure constrains and enables urban logistics performance.* Production and Operations Management Society Annual Conference. Orlando FL May 6-9, 2016.
  23. Yoon, T. C. Cherry, M. Ryerson, J. Bell (2016) *Migrating towards Using Electric Vehicle on Campus-Proposed Method for Fleet Optimization.* The 95th Annual Meeting of the Transportation Research Board. Washington D.C.
  24. Ling, Z., C. Cherry, W. Lawhorn, D. Stone (2015) *Study on Dynamic Factors on Single-Bicycle Crash Caused by Railway Tracks.* 2015 Road Safety & Simulation International Conference, Orlando FL. October 6-8, 2015.
  25. Langford, B.C., C. Cherry, E. Fitzhugh (2015) *Energy demand of walkers and riders of electric-assist bicycles and traditional bicycles.* Moving Active Transportation to Higher Ground. April 13-15, 2015. Washington D.C.
  26. Lim, H., G. Williams, D. Abdelqader, J. Amagliani, Z. Ling, D. Priester, C. Cherry (2015) *An alternative approach to parking demand forecast modeling: a case study of downtown Knoxville.* The 94th Annual Meeting of the Transportation Research Board. Washington D.C.
  27. Yang, H., C. Cherry, R. Zaretski, M. Ryerson (2015) *Rural-to-urban intercity deviated fixed-route design: application in Tennessee.* The 94th Annual Meeting of the Transportation Research Board. Washington D.C.
  28. Langford, B., J. Chen, C. Cherry (2015) *Comparing safety-related riding behaviors on bicycles and electric bicycles.* The 94th Annual Meeting of the Transportation Research Board. Washington D.C.
  29. Yoon, T., C. Cherry (2015) *EV (Electric Vehicle) Fleet Size and Composition Optimization based on demand satisfaction and total costs minimization.* EVS 28. Goyang Korea.
  30. Yoon, T., C. Cherry (2015) *EV (Electric Vehicle) Sharing Demand Estimation -A Case Study of Beijing, China.* EVS 28. Goyang Korea.
  31. Ling, Z., Y. Ni, C. Cherry, K. Li (2014) *Pedestrian Level of Service at Signalized Intersections in China Using Contingent Field Survey and Pedestrian Crossing Video Simulation.* The 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., 2014.
  32. Chimba, D., D. Emaasit, C. Cherry, Z. Pannell (2014) *Patterning Demographic and Socioeconomic Characteristics Affecting Pedestrian and Bicycle Crash Frequency.* The 93rd Annual Meeting of the Transportation Research Board. Washington D.C.
  33. Langford, B.C., C. Cherry, T. Yoon, J. Chen (2013) *Evaluating user safety on electric and regular bikes using observed behaviors.* Bicycle Urbanism Symposium, Seattle WA. June 19-22, 2013.
  34. Yang, H., C. Cherry (2012) *Conflict Analysis and Crash Severity Estimation of Four Transportation Modes in China.* The 92<sup>nd</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 13-17, 2013.
  35. Emaasit, D., D. Chimba, C. Cherry, J. Wilson, B. Kutela (2013) *A Methodology to Identify Factors associated with Pedestrian High Crash Clusters Using GIS Based Local Spatial Autocorrelation.* The 92<sup>nd</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 13-17, 2013.
  36. Cherry, C., H. Yang, L. Jones, M. He, S. Ji (2012) *Dynamics of electric vehicle use in China and impacts on health.* Better Air Quality. Hong Kong December 5-7, 2012.
  37. Langford, B.C., T. Yoon, C. Cherry. *Electric bike sharing: Observations from the first nine months of a university pilot test.* Velo City 2012 Vancouver, BC. June 26-29, 2012.
  38. Wolff, D.L., E. Fitzhugh, D. Bassett, C. Cherry (2012) *Characteristics of individuals perceiving weather as a barrier to outdoor physical activity.* 59<sup>th</sup> Annual Meeting of the American College of Sports Medicine. Denver, CO. May 29-June 2, 2012.

39. Cherry, C., L. Bordley, D. Stephens, J. Petrolino, J. Kelfer (2012) *Commercial Motor Vehicle Wireless Roadside Inspection Pilot Test Part B: Stakeholder Perceptions*. The 91<sup>st</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 22-26, 2012.
40. Lu, W., L. Han, C. Cherry (2011) *Performance Analysis of Vehicular Ad hoc Networks in Taxi Systems*. 18<sup>th</sup> World Congress on Intelligent Transportation Systems. Orlando, FL. October 16-20, 2011.
41. Wolff, D.L., E. Fitzhugh, D. Bassett, C. Cherry (2011) *The Relationship Between Greenway Siting, Active Transport Access And Types Of Users*. 58<sup>th</sup> Annual Meeting of the American College of Sports Medicine. Denver, CO. May 31-June 4, 2011.
42. Langford, B.C., C. Cherry (2011) *Supporting the Transition to a Full Hydrogen Bus Fleet: A Case Study of Knoxville Area Transit*. The 90<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 23-27, 2011.
43. Cherry, C., S. Worley, D. Jordan (2011) *Electric Bike Sharing—System Requirements and Operational Concepts*. The 90<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 23-27, 2011.
44. Cherry, C., S. Worley, D. Jordan (2010) *Sharing Electric Bikes—Proof of Concept on UT-Knoxville Campus*. Pro Walk Pro Bike Conference, Chattanooga, TN. Sept 14-16, 2010.
45. Moore, S.E., C. Cherry (2010) *Characterizing Illegal Mid-Block Pedestrian Crossings in China*. Vulnerable Road Users Conference, Jerusalem, Israel. May 29-June 2, 2010.
46. Hill, T.Q., C. Cherry (2010) *Strategies to Reduce Intersection Conflicts Between Automobiles and Bikes in China*. Vulnerable Road Users Conference, Jerusalem, Israel. May 29-June 2, 2010.
47. Gottesfeld, P., C. Cherry (2010) *Lead Battery Manufacturing Certification in the Developing World: Applying BEST Standards in India and Vietnam*. NCHIA 14<sup>th</sup> Annual Conference. San Francisco, CA. March 25-27, 2010.
48. Ji, S., C. Cherry, J. Marshall (2009) *Intake fraction of electric vehicle and traditional motorized vehicle in China*. Professional Association for China's Environment (PACE) 2009 Summer Camp. Kunming, Yunnan China. July 12-15, 2009
49. Cherry, C., L. Jones, J. Xiong (2009) *E-Bike Use in China: Patterns, Dynamics, Determinants, and Environmental Impacts*. Professional Association for China's Environment (PACE) 2009 Summer Camp. Kunming, Yunnan China. July 12-15, 2009
50. Jones, L., C. Cherry (2009) *Assessing the Demand For E-Scooters in Hanoi, Vietnam: Can Technological Improvements and Sales Tax Incentives Stimulate Adoption?* International Transport Economics Conference. Minneapolis MN. June 15-16, 2009.
51. Adelakun, A., C. Cherry (2009) *Exploring Truck Driver Perceptions and Preferences: Congestion and Conflict, Managed Lanes, and Tolls*. The 88<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C. January 11-15, 2009.
52. Cherry, C., J.X. Weinert, X.M. Yang (2008) *Electric Bikes in China—Impact on the Environment and Prospects for Future Growth*. Better Air Quality 2008. Bangkok Thailand. November 12-14, 2008. Invited
53. Cherry, C. (2008) *Can electric bikes provide sustainable transportation solutions to Chinese cities? An investigation of impacts on the transportation system*. Symposium on Transportation and Development Innovative Best Practices. ASCE TD&I. Beijing, China. April 24-26, 2008.
54. Cherry, C. (2007) *The Costs and Benefits of Electric Bike Use in China*. The 11<sup>th</sup> World Conference on Transport Research. Berkeley, CA June 24-28, 2007
55. Weinert, J.X., Z.D. Ma, X.M. Yang, C. Cherry (2007) *The Transition to Electric Bikes in China: Effect on Travel Behavior, Mode Shift and User Safety Perceptions in a Medium-Sized City*. The 86<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
56. Cherry, C., J.X. Weinert, C.T. Ma (2006) *The Environmental Impacts of E-bikes in Chinese Cities*. Better Air Quality 2006. Yogyakarta, Indonesia. December 13-15, 2006
57. Weinert, J., C.T. Ma, C. Cherry (2006) *The Transition to Electric Bikes in China: History and Key Reasons for Rapid Growth*. EVS22-The 22<sup>nd</sup> International Battery, Hybrid and Fuel Cell Electric Vehicle Symposium and Exhibition. Yokohama, Japan. October 23-28, 2006

58. Deakin, E., C. Cherry et al. (2006) *System Plan for Bay Area Regional Express Bus Service*. The 85<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
59. Cherry, C., E. Deakin, S.B. Huey, N. Higgins (2006) *Toward a Systems Level Approach to Sustainable Urban Arterial Revitalization: A Case Study of San Pablo Avenue*. The 85th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
60. Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. The 84th Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
61. Cherry, C. (2005) *Subway Station Design: Lessons learned from Case Studies of Contemporary Terrorism Incidents*. The Dwight David Eisenhower Transportation Fellowship Program Showcase Presentation at the 84th Annual Meeting of the Transportation Research Board.
62. Cherry, C., A. Garg, M. Hickman (2004) *Development of a Map-Based Transit Itinerary Planner*. The 83rd Annual Meeting of the Transportation Research Board. Washington D.C. CD-ROM
63. Cherry, C., A. Garg, M. Hickman (2003) *Map Based Transit Itinerary Planning*. GIS for Transportation Symposium. Colorado Springs, CO.
64. Cherry, C. (2001) *Historical Significance of Present Transportation Issues*. ITE District 6 Annual Meeting. Albuquerque, NM-Compendium of Technical Papers. CD-ROM.

### Technical Reports

1. Cherry, C., A. Boggs, N. Franceschetti, Z. Ling, S. Nambisan (2017) *Truck Parking Facilities and Ramp Parking: Role of Supply, Demand, and Ramp Characteristics*. Tennessee Department of Transportation.
2. Mishra, S., C. Cherry, M. Golias, Z. Sultana, S. Tabrizzadeh (2016) *Assessment of Mobility and Transit Access to Captive Riders in Suburban and Rural Areas*. Tennessee Department of Transportation.
3. Cherry, C., M. Burton, H. McCracken (2016) *Economic Impacts of Aviation Activity in Tennessee*. Tennessee Department of Transportation.
4. Cherry, C., D. Chimba, D. Emaasit, Z. Pannell (2014) *Statewide Pedestrian and Bicyclist Safety Analysis and Safety Investment Policy*. Tennessee Department of Transportation
5. Cherry, C., B.C. Langford (2013) *Planning for Electric Vehicles: Review of Clean Cities' Electric Vehicle Community Readiness Projects*. Howard H. Baker Jr. Center for Public Policy. University of Tennessee. White Paper 5.13.
6. Cherry, C., H. Yang, F. Wegmann, J. Everett (2012) *Tennessee Rural to Urban Transit Service Study*. Tennessee Department of Transportation.
7. Cherry, C., L. Bordley, J. Kelfer, C. Bryant, S. Ji (2011) *Wireless Roadside Inspection Phase II Evaluation Report*. Federal Motor Carrier Safety Administration and Research and Innovative Technology Administration.
8. Langford, B.C., C. Cherry (2011) *East Tennessee Hydrogen Initiative Task 2: Transition of Bus Transit to Hydrogen - A Case Study of a Medium Sized Transit Agency*. Federal Transit Administration. FTA-TN-26-7033-2011.2
9. Cherry, C., S. Ji, J. Marshall, Y. Wu (2010) *Emissions and Public Health from Electric Vehicles in China*. Energy Foundation China Report.
10. Cherry, C., L. Jones (2010) *Electric Two-wheelers in India and Vietnam-Market Analysis and Environmental Impacts*. Asian Development Bank Report. RPT091118.
11. Shah, J., N.V. Ayer, C. Cherry (2009) *Two and Three Wheelers in Sustainable Transport: A Sourcebook for Policy-makers in Developing Cities*. Gesellschaft für Technische Zusammenarbeit (GTZ)-German Technological Cooperation. Module 4c.
12. Cherry, C., J.X. Weinert, X.M. Yang (2009) *Electric Bikes in the People's Republic of China-Impact on the Environment and Prospects for Future Growth*. Asian Development Bank Report. RPT090040.
13. Jones, L., P. Gottesfeld, C. Cherry (2008) *Policy Options for Developing a Lead Battery Take-Back System for Vietnam*. Vietnam Environmental Protection Agency Policy Paper.
14. Cherry, C. (2007) *Electric Bike Use in China and Their Impacts on Environment, Safety, Mobility and Accessibility*. ITS Working Paper UCB-ITS-VWP-2007-3.
15. Cherry, C., J. Weinert, C.T. Ma (2007) *The Environmental Impacts of Electric Bikes in Chinese Cities*. ITS Working Paper UCB-ITS-VWP-2007-2.



16. Cherry, C., R. Cervero (2006) *Use Characteristics and Mode Choice Behavior of Electric Bikes in China*. ITS Working Paper UCB-ITS-VWP-2006-5.
17. Taylor, B., A. Loukaitou-Sideris, R. Liggett, C. Fink, M. Wachs, E. Cavanagh, C. Cherry, P. Haas (2006) *Designing and Operating Safe and Secure Transit Systems: Assessing Current Practices in the U.S. and Abroad*. Mineta Transportation Institute. San Jose State University. MTI 04-05.
18. Cherry, C. (2005) *China's Urban Transportation System: Issues and Policies Facing Cities*. UC Berkeley Center for Future Urban Transport. ITS Working Paper UCB-ITS-VWP-2005-4.
19. Deakin, E., K. Armstrong, C. Cherry, J. Day, C. McAndrews, L. Mejias, J. Rubin, J. Stagi, T. Valentin (2005) *Revitalization and Integrated Traffic Management Along a Multimodal Urban Arterial: A Plan for the San Pablo Corridor that Promotes Prosperity, Environmental Protection, and A Higher Quality of Life*. The Environmental Protection Agency P3 Student Award Competition. Project Number SU831 G4S20398
20. Cherry, C., E. Tang, E. Deakin, A. Skabardonis (2005) *Analysis of Freeway Improvements for Express Bus Service*. Chapter 4.2 Regional Express Bus Plan for the Bay Area. Caltrans D4.
21. Higgins, N., E. Tang, C. Cherry, S.B. Huey, E. Deakin, A. Skabardonis (2005) *Optimizing Transit Priority on a High Volume Arterial: A Case Study of San Pablo Avenue*. Chapter 4.3 Regional Express Bus Plan for the Bay Area. Caltrans D4.

### **Presentations (not listed above)**

1. *The Latest Electrifying Research on eBikes and their Health and Transportation Impacts*. Interbike Electric Theater. September 20, 2017. (invited)
2. *China's Motorization Wave and the Place of Emerging Technologies*. Portland State University TREC Seminar. June 2, 2017. (invited)
3. *Keynote: E-bikes and motorization – The importance of new technology and behavior on safety*. International Symposium on Frontiers of Road and Airport Engineering (iFRAE). Shanghai, China May 26-28, 2017. (invited)
4. *The role of LEVER to generate electric bike research*. Bicycle Product Supplier Association E-bike Summit. December 7, 2016. (invited)
5. *Traditional and Emerging Approaches for Pedestrian and Bicycle Safety and Mobility*". USDOT OST-R Transportation Innovation Speaker Series. October 19, 2016. With Shashi Nambisan
6. *"E-bikes" in China and E-bikes in North America*. Keynote Light Electric Vehicle Symposium. Barcelona, Spain. September 20-21, 2016. (invited)
7. *What is Commercial Motor Driver Parking Perception and Attitude to Smartphone Technology? A Study in the Southeast United States*. 2016 UTC conference for the Southeastern Region, Knoxville TN. March 31-April 1, 2016. (presented by Ziwen Ling)
8. *Transportation Research in Developing Countries – A World of Contrasts and Opportunities*. 2016 UTC Conference for the Southeast Region. Knoxville, Tennessee. May 31, 2016.
9. *China's mobility path: disruptive technologies and their sustainability impacts*. UC Davis Sustainable Transportation Energy Pathways (STEPS) Seminar. April 26, 2016. (invited)
10. *China's mobility path: disruptive technologies and their sustainability impacts*. Lawrence Berkeley National Lab China Energy Seminar. April 27, 2016. (invited)
11. *The role of electric two-wheelers in sustainable mobility in China and North America* Seoul Institute Seminar, Seoul South Korea, May 6, 2015. (invited)
12. *E-bike safety research*. Transportation Research Board Committee on Bicycle and Pedestrian Safety Analysis. Washington DC. January 14, 2015. (invited)
13. *What is implicit bias? (and what can we do about it)*. Womengineers Conference. Knoxville, TN. April 11, 2015. With Paul Frymier (invited)
14. *Electric-Powered Two-Wheelers: Kid Toys or Serious Transportation?* University of Tennessee MicNite. Knoxville TN. March 26, 2015.
15. *Electric powered two-wheelers: a game-changer in Asia and beyond?* Stanford University International Urbanization and Sustainable Transportation joint seminar. December 5, 2014. (invited)
16. *Electric powered two-wheelers: a game-changer in Asia and beyond?* 11<sup>th</sup> Transportation Planning and Implementation Methodologies for Developing Countries. IIT Bombay, India, December 10-12, 2014. (invited)

17. *New Technologies to Assess Bicycle Safety*. Southeast Transportation Center Conference, Knoxville TN. September 30, 2015.
18. *Electric powered two-wheelers (e-bikes): a welcome game-changer?* Transforming Transportation January 16, 2015.
19. ~~Cross~~ *Design with Care (or The RR XING Smackdown)*. Tennessee Bike Summit. Knoxville, TN April 22, 2015.
20. *A New Era For Transportation Technology Adoption and Implications for Sustainability, Health and Safety*. Southwest Jiaotong University. June 20, 2014. (invited)
21. *New Stated Preference Methods and Applications to Two New Shared Mode Technologies*. Kunming University of Science and Technology. June 18, 2014.
22. *A Framework to Predict High Risk Roadways for Pedestrians in Tennessee*. Knoxville Transportation Planning Organization Technical Committee. February 11, 2014
23. *Market Barriers on the Infrastructure Side*. Electrifying the Vehicle Market in the Southeast. Knoxville, TN. May 2-3, 2013.
24. *Two-wheelers – a “boon” or “bane”* Transforming Transportation January 18, 2013. (invited panelist)
25. *E-Cars and E-bikes in China – Technology Adoption, Health and Environmental Impacts*. Better Air Quality. Hong Kong December 5-7, 2012. (invited)
26. *Electric bike sharing: Observations from the first nine months of a university pilot test*. ITS Tennessee. Knoxville, TN, October 4, 2012.
27. *Electric Cars in China – Only as Clean as Their Coal*. University of Tennessee Science Forum. Knoxville, TN, September 21, 2012
28. *Disruptive technologies and motorization in China*. Urban Transport Pathways: Do the Experiences of the US and the EU Offer Lessons for the Developing World. UC Berkeley, September 13-14, 2012 (invited)
29. *Dynamics of Electric Bike Use in China*. Kunming University of Science and Technology Transportation Engineering Seminar. Kunming, China June 20, 2012.
30. *First in Nation Electric Bike Sharing at UTK*. Tennessee Bike Summit. Chattanooga, TN. May 3, 2012. (invited)
31. *China’s transition to e-bikes and e-cars and what it means for environmental and public health*. Sidore Lecture. Keene State College. Keene, NH. April 17, 2012. (invited)
32. *E-bike sharing: A solution for the first, last, or only mile for mere mortals*. Sustainable Mobility and Cities: Marrying Technology and Policy. UC Berkeley, Berkeley, CA. February 23, 2012. (invited)
33. *China’s transition to e-bikes and other motorized modes and what it means for environmental and public health*. University of Arizona Civil Engineering Seminar. Tucson, AZ. February 22, 2012. (invited)
34. *Moving Toward Sustainable Transport*. TEDxUTK. Knoxville, TN. February 17, 2012. (invited)
35. *New Models of Public Transit*. Technical Society of Knoxville. Knoxville, TN. October 24, 2011. (invited)
36. *Sustainable Transport: More than Just Minimizing CO<sub>2</sub>*. UTK IGERT STAIR Retreat. Roan State Park. May 16, 2011. (invited)
37. *Electric Bike Sharing on UT-Knoxville Campus—Research and Education*. University Transportation Center Showcase. US Department of Transportation. Washington DC. April 6, 2011.
38. *Wireless Roadside Inspection*. University Transportation Center Showcase. US Department of Transportation. Washington DC. April 6, 2011.
39. *Successes and Challenges of Electric 2- and 3-Wheelers in Developing Economies*. Civic Exchange C40 Workshop-Hong Kong. November 6, 2010 (invited)
40. *E-Vehicles: The Environment and Public Health*. UT Department of Geography Seminar Series. October 28, 2010 (invited)
41. *Electric Scooters in Vietnam: Factors Influencing (lack of) Adoption and Environmental Implications*. UC Berkeley Institute of Transportation Studies Seminar. October 22, 2010 (invited)
42. *Electric Scooters in Vietnam: Factors Influencing (lack of) Adoption and Environmental Implications*. Tennessee Tech University Institute of Transportation Studies Seminar. October 12, 2010 (invited)
43. *Electric Bike Sharing: A Proof-of-Concept on UT Campus*. Tennessee Section Joint Institute of Transportation Engineers/American Planning Association Annual Meeting. September 30, 2010 (invited)
44. *Getting Used to Electric Vehicles...Two Wheels at a Time*. Tennessee Section of the Institute of Transportation Engineers Annual Meeting. February 25, 2010 (invited)

45. *Managing Truck Lanes Through Urban Areas-Truck Drivers' Perceptions in Knoxville Tennessee*. Presented to Freeway Operations Simulation Subcommittee. Transportation Research Board. January 10, 2010 (invited)
46. *Electric Scooters in China, Vietnam and India: Environmental Implications and Markets*. Presented to International Aspects of Transportation Energy Subcommittee. Transportation Research Board. January 13, 2010 (invited)
47. *Electric Bikes in Asia-Factors Influencing Adoption--or Not*. UT Exercise, Sport and Leisure Studies Department Seminar Series. October 12, 2009 (invited)
48. *Electric Scooters in Viet Nam and India: Factors Influencing (lack of) Adoption and Environmental Implications*. Sustainable Urban Mobility Asia Summit. Delhi, India. October 30, 2009 (invited)
49. *Managing Truck Lanes Through Urban Areas-Truck Drivers' Perceptions in Knoxville Tennessee*. Vanderbilt Civil Engineering Seminar. January 26, 2009 (invited)
50. *Role of Battery Electric Two-Wheelers in Providing Energy Efficient Mobility in China*. Berkeley Energy Symposium. March 21, 2007 (Poster)
51. *Advantages and disadvantages of electric bike use in Chinese cities-an analysis of recent policy directions*. University of California Transportation Center Conference. February 15-17, 2007
52. *Implications of Electric Bicycle Use in China: Analysis of Costs and Benefits*. Volvo Summer Workshop. Berkeley, CA. July 24-25, 2006
53. *Suburbanization and Travel in China*. University of Transportation Center Conference. Berkeley, CA. February 9-11, 2006 (Poster)
54. *Analysis of Freeway Improvements for Express Bus Service*. University of California Transportation Center Conference. Irvine, CA. February 4-5, 2005 (Poster)

### **Selected Popular Press Citations**

1. CityLab: *The Brutal Saga of One Extremely Evil Railroad Crossing* <http://bit.ly/2u9kDhe>.
2. NextCity: *City in Mexico Considers BikeShare With a Twist*. <http://bit.ly/2w2MLan>
3. Curbed: *How e-bikes can help turn drivers into bike commuters* <http://bit.ly/2rMrwEV>
4. Washington Post: *Let's keep motors off our bike trails*. <http://wapo.st/2vB5B5a>
5. Wired: *Brussels Bombs Show the Special Vulnerabilities of Subways*. <http://bit.ly/1LHmEZc>
6. Bloomberg: *Carnage on China Roads Shows Dark Side of Electric Bikes*. <http://bloom.bg/1iRxMNW>
7. Guardian: *Electric bikes: what experiences in China can tell us*. <http://bit.ly/1dzAV8b>
8. NPR: *A 'Dilemma Zone' For Red-Light Cameras: Safety Vs. Cash*
9. ESPNU: *SEC Stories of Success*. <http://bit.ly/OZCT4u>
10. Reuters: *Norway shows the way with electric cars, but at what cost?* <http://reut.rs/WHq4Bw>
11. Scientific American: *Can E-bikes Displace Cars?* <http://bit.ly/wENVbc>
12. US News: *Chinese Electric Car Pollution More Harmful to Humans Than Gas Cars*. <http://bit.ly/yoMP0l>
13. Time: *Why Electric Cars Are More Polluting than Gas Guzzlers — at Least in China*. <http://ti.me/y5KQCT>
14. DailyMail: *Proof electric cars DO cause more pollution than normal ones: Study shows impact is worse than petrol-powered vehicles*. <http://bit.ly/wQOu6F>
15. International Business Times/Chicago Tribune: *Electric Vehicles Pollute More than Gas-Powered, Study Says*. <http://bit.ly/wHU8K0>
16. Discovery News: *Electric Cars a Health Hazard in China*. <http://bit.ly/z8tNbl>
17. NY Times: *A Bay Area Experiment in Electric Bike Sharing*. <http://nyti.ms/w5IOPR>
18. China Signpost: *Electric Bikes are China's Real Electric Vehicle Story*. <http://bit.ly/sBrIOl>
19. Knowledge@Warton: *A Bumpy Road Ahead for China's Electric Bikes*. <http://bit.ly/ua7orN>
20. Wall Street Journal: *The Post-Global Warming World*. <http://on.wsj.com/s5jBnR>
21. FastCompany: *The Top Five Transit Technologies For The Low-Carbon Economy*. <http://bit.ly/nzMd6e>
22. MSNBC Future of Technology: *The era of ebikes is upon us*. <http://on.msnbc.com/qF7cG3>
23. CR80 News: *University of Tennessee launches electric bike share program*. <http://bit.ly/o5tKWH>
24. Knoxville Sentinel: *University of Tennessee launches first-in-nation 'e-bike' program*. <http://t.co/Pfx3CM0>
25. Istoé Independente (Brazil): *Efeito colateral*. <http://bit.ly/qEzbLr>
26. WBIR and WATE (Knoxville): *Electric bike sharing at UT*. <http://t.co/MQqQEGR> and <http://t.co/BN8bFd8>
27. NPR Science Friday (Spanish): *Las baterías de plomo-ácido y la contaminación ambiental*. <http://bit.ly/qtQzbP>
28. Conservation Magazine: *Leaden Rays?* <http://bit.ly/pKT3Ud>

29. Outside Magazine: *Plug and Play*. <http://bit.ly/oX7Xq2>
30. IEEE Spectrum Energywise: *WSJ Calls China's Electric Bicycle Craze a Killer*. <http://bit.ly/ad7Wf6>
31. NY Times: *An Electric Boost for Bicyclists*. <http://nyti.ms/akK8aY>
32. Wall Street Journal: *E-Yikes! Electric Bikes Terrorize the Streets of China*. <http://on.wsj.com/75F9pw>
33. Las Vegas Review Journal: *New program lets some public employees ride electric bikes*. <http://bit.ly/mvaebG>
34. Memphis Commercial Appeal: *Pedal to the Motor*. <http://bit.ly/p9CWTw>
35. Associated Press-Los Angeles Times: *Bicycle-loving China begins to go electric*. <http://lat.ms/7uiGNy>

## **ACADEMIC RESEARCH AND TEACHING EXPERIENCE**

**08/2007 to present      UNIVERSITY OF TENNESSEE, KNOXVILLE Associate Professor**

### **Teaching**

<b>Course No.</b>	<b>Course Name</b>	<b>Semester</b>
CE455(351)	Transportation Engr. II	F08-F16
CE456	Transportation Engr. Lab	F09-F16
CE550	Transportation Seminar	Bi-annual
CE553	Geometric Design of Roadways	F07, F13, S16
CE554	Public Transit Planning and Ops	F10, F11, F15
CE558	Planning and Transportation	S08-S13, S16
CE595	Sustainable Transportation	F14, F16
CE595	International Transportation Exp.	Su09, Su10
FYS129	Sustainable Transportation-Freshman	S10, F13, F16

### **Research**

*Funded Proposals: (\$2,773,080 my portion: \$4,732,563 total)*

#### *Recommended for Funding*

1. *GOALI: Novel approaches to model travel behavior and sustainability impacts of e-bike use*. National Science Foundation. Collaborative Proposal with Portland State University and Bosch. Lead PI with Dan Costinett, Wei Gao, and Paul Frymier. UT Portion \$285,000. My portion \$199,500. (recommended for funding in FY18)

#### *Funded*

2. *Comprehensive Sciences Center for Road Safety (CSCRS) National University of Transportation Center (2016-2021)*. US Department of Transportation. UT Portion \$418,000/year for five years with Asad Khattak. My portion of first year budget: \$174,026.
3. *Fuels, Freight, and the Tennessee Economy*. Tennessee Department of Transportation 2017-2018 (\$99,652: 79,721 my portion). Lead PI with Chad Autry.
4. *Big Data for non-motorized transportation* Southeastern Transportation Center (\$75,000)
5. *Instrumented bicycles and big data for safety* – Southeastern Transportation Center 2016 (\$50,000).
6. *Instrumented Electric Bikes*–Institute for a Secure and Sustainable Environment 2015 (\$50,000: \$40,000 my portion) Lead PI with Dan Costinett and Paul Frymier.
7. *Assessment of Mobility and Transit Access to Captive Riders in Suburban and Rural Areas*. Tennessee Department of Transportation 2016 (\$199,925 award to University of Memphis, UTK subcontract \$94,401).
8. *Truck Ramp Parking*–Tennessee Department of Transportation. (\$65,273: \$32,636 my portion). Lead PI with Shashi Nambisan

9. *Green Generates Green*–Tennessee Department of Transportation 2015 (\$158,978: \$47,693 my portion) Co-PI with Asad Khattak
10. *Big Data in Transportation Safety STC MRI*–Southeastern Transportation Center 2014 (\$25,000)
11. *Light Electric Vehicle Education and Research (LEVER) Center Organized Research Unit*–University of Tennessee Office of Research and Engagement 2014-2017 (\$75,000)
12. *New technologies and bicycle safety*-Southeast Transportation Center 2014 (\$50,000)
13. *Pedestrian Oriented Transit: A New Criteria for Pedestrian Network Building*-Tennessee Department of Transportation 2013 (\$72,724)
14. *Aviation Activity in Tennessee: Inventory and Economic Assessment*- Tennessee Department of Transportation 2013 (\$183,316)
15. *Technical Review of Clean Cities' Electric Vehicle Community Readiness Projects*-US Department of Energy 2013 Co-PI with David Greene (\$67,351: \$10,000 my portion)
16. *PSTAT: Promoting Sustainable Transportation Among Teens*-US EPA P3 Program 2012-2013 (\$15,000: \$3,000 my portion). Co-PI with Paul Frymier.
17. *Electric versus traditional motorized vehicles in the Southeast: Comparison of GHG emissions and exposure and health impacts of primary pollutants*. Baker Center for Public Policy 2012 (\$20,000).
18. *Improving Rural Roadway Safety Programs through a University-Public School Collaboration*-USDOT Eisenhower Grant supporting Lawson Bordley 2011 (\$5,000)
19. *Health Advantages of Motorized and Non-motorized Transportation*-USDOT Eisenhower Grant supporting Casey Langford 2011 (\$5,000)
20. *Statewide Pedestrian and Bicyclist Safety Analysis and Safety Investment Policy*-Tennessee Department of Transportation. 2011-2013 (\$100,000: \$95,000 my portion) co-PI with Steve Richards and Deo Chimba (TSU)
21. *Comparing safety related behavior between bicycles and electric bikes*-Southeastern Transportation Center 2011 (\$35,000)
22. *Truck parking behavior in the Southeast US*-Southeastern Transportation Center 2011-2012 (\$35,000: \$5,000 my portion) Co-PI with Kevin Robinson
23. *CAREER: Sustainability Implications of Transportation Choice in China*-National Science Foundation 2011-2016 (\$465,493)
24. *Electric Bike Sharing-Evaluation of System Impacts*-Tennessee Department of Transportation, 2010-2012 (\$50,000: \$35,000 my portion) Lead PI with Stacy Worley (Biosystems Engr.)
25. *Rural Seatbelt Use Determinants of Rural Populations*-USDOT Eisenhower Grant supporting Lawson Bordley, 2010 (\$5,000)
26. *H2vBE: A Case Study of the Reliability, Cost, and Environmental Sustainability of Hydrogen Fuel*-US EPA P3 Program. 2010-2011 (\$10,000: \$2,000 my portion) Co-PI with P. Frymier, B. Irick, L. Tolbert, and R. Counce.
27. *Evaluation of Service and Market for Intercity Bus Three Year Pilot Program*-Tennessee Department of Transportation. 2009-2012 (\$200,000)
28. *Sustainable Urban Mobility in Asia-Electric Bike Environmental Impacts in India and Vietnam*-Clean Air Initiative for Asian Cities Center Asian Development Bank. 2009 (\$17,000)
29. *Evaluation of Wireless Roadside Infrastructure Pilot Phase II*. US Department of Transportation-Federal Motor Carrier Safety Administration and NTRCI. 2008-2010 (\$321,251: \$295,996 my portion) Lead PI with Tom Urbanik.
30. *The Transition of Bus Transit to Hydrogen-A Case Study of a Medium Sized Transit Agency*. US Department of Transportation-Federal Transit Administration. 2008-2010 (\$60,000 my portion) Co-PI with Wayne Davis and David Keffer.
31. *Health Impact of Emissions from Electric and Traditional Motorized Transportation Modes in China*-Energy Foundation. 2008-2009 (\$60,000) Lead PI with Julian Marshall (University of Minnesota).
32. *Expanding Collaborative Transportation Research Activities in Asia*-University of Tennessee Graduate School Professional Development Award. 2008 (\$1,600).
33. *Battery Certification Program for Lead Battery Manufacturing in Vietnam*-National Collegiate Inventors and Innovators Alliance 2008-2009 (\$50,000) with OK International (NGO).
34. *Sustainable Urban Mobility in Asia-Environmental Impacts of Electric Bikes*-Clean Air Initiative for Asian Cities Center-Asian Development Bank. 2007-2008 (\$15,000)

## Students

*As Major Advisor:*

Current

Ziwen Ling (PhD) Research Area: Travel behavior in the era of new technology. Expected Graduation Date-December 2017

Amin Mohamadi Hezaveh (PhD) Research Area: Safety Data. Expected Graduation Date-May 2019

Mojdeh Azad (PhD) Research Area: Big data and cycling safety-May 2019

Graduated

Kabin Luitel (MS) Research Area: UT Transportation Asset inventory system – Aug 2017

Nirbesh Dhakal (MS) Research Area: Big data and bicycle data systems. Graduation Date – May 2017

Samam Tabrizzadeh (MS) Research Area: Rural transit connectivity – May 2017

Luis Taboada (MS) Research Area: Walk to Transit, increasing accessibility to transit systems. Graduation Date-December 2015

Hunter McCracken (MS) Research Area: Economic impacts of Tennessee's aviation system. Graduation Date-December 2015

Ranjit Khatri (MS) Research Area: New technologies for bicycle data collection. Graduation Date-December 2015

Dua Abdelqader (MS) Research Area: Walk to Transit, home-based walk infrastructure to access the transit network. Graduation Date May 2014

Taekwan Yoon (PhD) Research Area: Electric Vehicle Infrastructure Planning. Graduation Date-May 2014

Hongtai Yang (PhD) Research Area: Transit Planning. Graduation Date-May 2013

Casey Langford (PhD) Research Area: Full cost and benefit accounting of alternative transportation modes. Graduation Date-December 2012

Zane Pannell (MS) Research Topic: Truck Parking Behavior. Graduation Date-December 2013

Shuguang Ji (PhD) Research Area: Electric vehicle lifecycle impacts. Graduation Date-August 2012

Lawson Bordley (MS) Research Area: Driver behavior and traffic safety. Graduation Date-December 2011

David Jordan (MS) Proof of Concept Electric Bike Sharing System. May 2011

Nicole Belanger (MS) Coursework Only-May 2010

Carrie Groseclose (MS) Research Topic: Introducing Commuter Rail on Existing Freight Corridors: A Case Study of the Knoxville/Maryville/Alcoa Connection. Expected Graduation Date-May 2010

Catherine Bryant (MS) Research Topic: Wireless Roadside Inspections (WRI) Pilot Project Performance Evaluation. Expected Graduation Date-May 2010

Terrance Hill (MS) Research Topic: Strategies to Reduce Bicycle-Car Conflict and Improve Operations of Signalized Intersections in China. Graduation Date-May 2009

Elliott Moore (MS) Research Topic: Pedestrian Midblock Crossing in China. Graduation Date-May 2009

Adebola Adelakun (MS) Research Topic: Effect of Truck Lane Restrictions and Configurations in Knoxville TN on Highway Operations and Vehicular Emissions. Graduation Date-Dec 2008

*As Research Project Advisor:*

Geneva Osborne (BS CEE) Last Mile Urban Freight Systems

Anastasia Koumtcheva (BS CEE) Bicycle Infrastructure Design at Rail Crossings

Joseph Amagliani (BS CEE) China Lifecycle Assessment Model Development.

Shahad Abdulraman (BS CEE) Aviation Economic Impacts.

Mark Nichols (BS CEE) Aviation Economic Impacts

Nicolo Franceschetti (BS CEE) Implementation Guide Development for Walk to Transit project

Marquis Webb (BS CEE) Truck Ramp Parking Demand and Supply Analysis

Kristina King (BS CEE) Transportation Safety in China and University Parking Supply Analysis

Jiaoli Chen (PhD Geog) Research Topic: Bicycle and Electric Bike Safety Analysis Using Big Data

Andrew Campbell (MS CEE) Research Topic: Factors Influencing the Choice of Shared Bicycles and Electric Bicycles in Beijing - A Stated Preference Approach

Shahriar Jahan (PhD EECS) Research Topic: Embedded Hardware/software Design for E-bike Sharing

Levon Brassfield (BS EECS) Research Topic: Software Requirements for E-Bike Sharing

David Grueser (BS CEE) Research Topic: Openbike Open Source Electric Bikeshare

Luke Jones (PhD Economics) Research Topics: Lead Battery Recycling Policy in Vietnam, E-bike Use Patterns In China, Vietnam E-Scooter Market Potential Using a Stated Preference Design

Dana Wolff (MS Exercise Science) Research Topic: Greenway Siting and Active Transport

Jonathan Kelfer (MIS) Research Topic: Wireless Roadside Inspections (WRI) Pilot Project Performance Evaluation

Eric Neuhaus (BS CEE) Research Topic: Pedestrian Midblock Crossing in China

Richard LeMay (BS CEE) Research Topic: Pedestrian Midblock Crossing in China and Intersection Design to reduce Bicycle-Car Conflicts

Brian Donlon (BS CEE) Research Topic: Network Connectivity and Pedestrian Safety

Matthew Burr (BS ME) Research Topic: Wireless Roadside Inspections (WRI) Pilot Project Performance Evaluation

David Baldwin (BS EECS) Research Topic: Wireless Roadside Inspections (WRI) Pilot Project Performance Evaluation

Daniel Alexander (BS CEE) Research Topic: Wireless Roadside Inspections (WRI) Pilot Project Performance Evaluation

**08/2003 to 5/2007 UC, BERKELEY. Berkeley, CA Graduate Student Researcher/Instructor**

*Motorization, Mobility, and Accessibility in China-UC Berkeley Center for Future Urban Transport (06/2005 to 5/2007)*

- Dissertation Research: Analyzing the sustainability implications of recent widespread electric bike adoption in China
- Conducting research with academic collaborators from Tsinghua University, Tongji University and Kunming University of Science and Technology (Field work in China 6/2005-8/2005 and 3/2006-6/2006)
- Assisting in the investigation of travel behavior impacts of new suburban developments

*Regional Express Bus Plan-Arterial Revitalization-UC Transportation Center (06/2004 to 06/2005)*

- Developed microsimulation traffic models using Paramics to analyze express bus infrastructure improvements
- Analyzed HOV lane improvements on a congested urban freeway
- Analyzed signal optimization and queue jump lane configurations for a congested urban arterial
- Conducted corridor wide parking and economic development analysis
- Collaborated with public officials and agencies

*System Design for Transit Security-Mineta Transportation Institute (01/2004-05/2004)*

- Conducted research on transit terminal design related to counter-terrorism security
- Conducted four case studies of rail terrorism incidents drawing conclusions on mitigation through design
- Developed a chronology of world-wide rail transit terrorism incidents over the previous 30 years

*Graduate Student Instructor-Computer Programming For Engineers (08/2003-12/2003 and 01/2007 to 5/2007)*

- Currently instructor of five discussion sections comprising over 150 students
- Lab instructor for a MATLAB programming course for engineers
- Taught and monitored lab sections, conducted office hours and graded exams

**01/2002 to 06/2003 UNIVERSITY OF ARIZONA. Tucson, AZ Research Assistant**

- Conducted research developing a map based internet itinerary planner for transit
- Utilized existing GIS tools and software to develop a trip planner system for the Tucson bus network
- Participated in various research activities including remote sensing vehicle detection and travel time studies
- Occasionally had teaching responsibilities for undergraduate transportation classes

**06/2001 to 12/2001 Visited Kunming, China**

- Spent six months studying the language and culture of China
- Casually observed urban transportation systems and challenges
- Influenced my interest in the rapid motorization issues of China

**03/1999 to 12/2000 UNIVERSITY OF ARIZONA. Tucson, AZ**

- Teaching assistant for a surveying lab in the Civil Engineering Department
- Grader for Civil Engineering professors
- Tutored students with learning disabilities

## **PROFESSIONAL EXPERIENCE**

**03/2003 to 06/2003 CARTER BURGESS. Dallas, TX Project Supervisor**

- Supervised a comprehensive travel time study for the entire City of Tucson, Arizona
- Utilized GPS and GIS to measure travel times for all major arterials in the city
- Responsible for project planning, data collection, fleet management and personnel management

**11/2000 to 06/2001 MMLA. Tucson, AZ Engineering Designer**

- Utilized Microstation J and Autocad 14 on roadway design projects
- Prepared environmental assessment and mitigation reports
- Assisted project engineers with various design tasks through all phases of design

**06/2000 to 08/2000 EXXON/MOBIL. New Orleans, LA Engineering Intern**

- Managed an equipment installation project on an offshore platform
- Managed and supervised personnel and equipment logistics involving the project
- Gained valuable project management skills of large scale projects

**08/1999 to 05/2000 RS ENGINEERING. Tucson, AZ Engineering Intern**

- Utilized Microstation J and Autocad 14 on roadway design projects

**06/1999 to 08/1999 S and S SURVEYS, INC. Tucson, AZ Land Surveyor**

- Conducted a GPS survey for the City of Tucson
- Proficient in Tripod Data Systems with GPS software

**05/1997 to 08/1997 KELLEY/WISE ENGINEERING. Prescott, AZ Land Surveyor**

**05/1998 to 08/1998**

- Assisted in construction, topographic and boundary surveying



## **PROFESSIONAL ACTIVITIES**

### **University Service**

University of Tennessee Faculty Senate (2012-2017)  
University of Tennessee STRIDE Committee (2013-2015)  
University of Tennessee Graduate Council-Proxy Member (2009-2014)  
University of Tennessee Alternative Transportation Working Group (2009-2012)  
Department of Civil Engineering Strategic Planning Committee Chair (2012-2017)

### **Journal Review Activities**

Journal of Public Transportation, Transportation Research Parts A, C, D, Transportation Research Board-ADB00, ABE90, ANF20, Journal of Transportation Planning and Technology, ASCE Journal of Infrastructure Systems, ASCE Journal of Transportation Engineering, ASCE Journal of Urban Planning, Computer Aided Civil and Infrastructure Systems, Transport Policy, Journal of Cleaner Production, Journal of Sustainable Transportation, Journal of Intelligent Transportation Systems, Journal of Transportation Safety and Security, Environmental Science and Technology, Journal of Transportation and Land Use, Energy Policy, Environmental Health Perspectives, Injury Control and Safety Promotion, Journal of the American Planning Association, Atmospheric Environment, Journal of Transport Geography and others.

### **Panel Participation**

UN Environmental Program Green Climate Fund – Electric Mobility – Introduction of Electric Motorcycles Project Preparation Funding Proposal Panel (2017)  
National Center for Sustainable Transportation proposal review 2017  
Louisiana Board of Regents Support Fund Proposal Review Panel Chair 2016  
UCTC/UConnect proposal reviews 2013, 2016  
University Transportation Research Center proposal review 2013  
National Urban Transportation Center proposal review 2012  
Queensland University of Technology Dissertation Reviewer 2012  
Mountain Plains Consortium UTC proposal review 2012  
Fonds de recherche du Québec – Nature et technologies-Leadership Opportunity Fund Review Panelist 2012  
National Institute of Transportation and Communities (NITC) Proposal Review Panelist 2012  
USDOT Eisenhower Graduate Fellowship Review Panelist 2012  
Oregon Transportation Research and Education Consortium (OTREC/NITC) Proposal Review Panelist 2011, 2016  
National Science Foundation CAREER & Unsolicited Proposal (CBET) Review Panelist. 2011, 2012, 2014, 2015  
National Science Foundation East Asia and Pacific Summer Institute Proposal (OISE) Review Panel. 2008, 2009, 2012  
Federal Transit Administration Expert Panel on Economic Development Impacts of Transit Projects. Washington DC October 17<sup>th</sup>, 2007 (role: invited observer)

## **AWARDS & MEMBERSHIPS**

**Awards:** Gene Wildman Scholarship '99, Clarence Wilson Scholarship '00, ITE District 6 Student Paper Award '01, Jimenez Highway Scholarship '01, CH2M Hill Scholarship '02, ITE Arizona Section Student Paper Award '03, ITE San Francisco Bay Area Section Student Paper Award '04, National Defense Transportation Association Scholarship '04, NSF East Asia and Pacific Summer Institute (China) '05, UC Pacific Rim Research Program Mini-Grant '06, Eisenhower Transportation Fellowship '04-'06, Eno Fellowship '07, UT Civil Engineering Research Recognition Award '09, UT Environmental Leadership Award '10, UT Quest Scholar of the Week '11, UT Civil Engineering Research Recognition Award '12, UT College of Engineering Professional Promise in Research Award '14, COE Charles E. Ferris Faculty

Award '15. UT Center For Transportation Research Fellow '14-'15, UT Environmental Leadership Award '15.

**Memberships and Offices:** ITE, ASCE, TRB, Registered PE in Tennessee.