

CURRICULUM VITAE

Peng Chen | Assistant Professor

School of Public Affairs | University of South Florida
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ACADEMIC POSITION

Assistant Professor

Department of Urban and Regional Planning, School of Public Affairs, University of South Florida, Tampa, Florida, USA, 08/2019~Present

Associate Professor

Department of Transportation Engineering, College of Traffic and Transportation Engineering, Shanghai, CHN, 04/2018~08/2019

Assistant Professor

Department of Urban Planning, College of Architecture and Urban Planning, Harbin Institute of Technology Shenzhen Campus, Shenzhen, Canton Province, CHN, 05/2017~03/2018

Postdoc Research Associate

Department of Civil and Environmental Engineering, University of Washington, Seattle, WA, USA, 01/2016~ 12/2017

EDUCATION

Doctor of Philosophy, Interdisciplinary Ph.D. Program of Urban Design & Planning, University of Washington, Seattle, WA, USA, 09/2011~ 03/2016

Master of Science, Civil & Environmental Engineering (Transportation), University of Washington, Seattle, WA, USA, 09/2013~ 12/2015

Graduate Certificate, Ph.D. Track for Statistics in the Social Sciences, University of Washington, Seattle, WA, USA, 09/2011~ 06/2014

Master of Science, Human Geography (Urban & Regional Planning), Peking University, Beijing, CHN, 09/2007~06/2010

Bachelor of Engineering, Architecture, Wuhan University, Wuhan, Hubei, CHN, 09/2002~06/2007

RESEARCH INTERESTS

Shared Mobility
Personalized Incentives and Travel Behavior Change
Travel Behavior and the Built Environment

RESEARCH GRANTS

OERTransport: Enabling Transportation Planning Professional Advancement, US Department of Education, 2021-2024, Co-PI, *66,757 USD*

Targeting Transit Incentives to Congestion Sources, National Institute for Congestion Reduction, USDOT University Transportation Center, 2020-2021, Co-PI, *84,774 USD*

Development of Framework for Identifying Mobility Desert, Center for Transportation, Environment, and Community Health, USDOT University Transportation Center, 2020-2021, Co-PI, 11,307 USD

How Autonomous Vehicles will Change Urban Space? An Exploratory Analysis, State Key Laboratory of Subtropical Building Science of China's Young Scholar Grant, 2018-2019, PI, 50,000 CNY

How to Manage Oversupplied Undocked Bicycles? PKU-Lincoln Institute Center for Urban Development and Land Policy's Research Grant, 2017-2018, PI, 80,000 CNY

AWARDS AND HONORS

Outstanding Reviewer 'Transportation Research Part D: Transport & Environment' | 'Accident Analysis Prevention' | 'Computer, Environment and Urban Systems', 2018

World Conference on Transport Research Society, Section F: Transport, Land-use and Sustainability, Best Paper, 2016

PacTrans TRB Travel Awards, 2015~2017

IACP Travel Rewards, 2012, 2014, 2015

University of Washington: Graduate School Fellowship/RAship/TAsip, 2011~2015

Wuhan University/Peking University: Top / Runner Up Student Scholarship, 2002~2010

JOURNAL PUBLICATIONS (*corresponding author, #graduate student)

Hu, S. and **Chen, P.***, 2021. Who left riding transit? Examining socioeconomic disparities in the impact of COVID-19 on ridership. *Transportation Research Part D: Transport and Environment*, 90, p.102654.

Chen P.*, 2020. Millennials and Reduced Car Ownership: Evidence from Recent Transportation Surveys. *Transport Findings*, July.

Chen, P.*, Deng J.#, 2020. Integrating Affordable Housing with Transit: Where are the Transit Deserts. *Transport Findings*, September.

Chen, M. #, **Chen, P.***, Gao, X. and Yang, C., 2020. Examining injury severity in truck-involved collisions using a cumulative link mixed model. *Journal of Transport & Health*, 19, p.100942.

Li, T. #, **Chen, P.** and Tian, Y.*, 2020. Personalized Incentive-Based Peak Avoidance and Drivers' Travel Time-Savings. *Transport Policy*.

Liu, Q., Ding, C.*, **Chen, P.**, 2020. A panel analysis of the effect of the urban environment on the spatiotemporal pattern of taxi demand. *Travel Behavior and Society*, 18, pp. 29-36.

Hu, S#*, **Chen, P.**, Feifei X.*, Chi X., 2019. Exploring the Effect of Battery Capacity on Electric Vehicle Sharing Programs using a Simulation Approach, *Transportation Research Part D: Transport and Environment*, 77, pp.164-177.

Chen, P., Hu, S#*, Shen, Q., Lin, H., Xie, C., 2019. Estimating traffic volume for local streets with imbalanced data. *Transportation Research Record: Journal of the Transportation Research Board*, 2673(3), pp.598-610.

Tu, Y., #, **Chen, P.***, Gao, X., Yang, J., and Chen, X., 2019. How to make dockless bikeshare good for cities: curbing oversupplied bikes. *Transportation Research Record: Journal of the Transportation Research Board*, 2673(6), pp.618-627.

Chen, P. and Shen, Q.*, 2018. Identifying high-risk built environments for severe bicycling injuries. *Journal of Safety Research*, 68, pp.1-7.

Zhao, X.#, **Chen, P.***, Chen, X., Jiao, J. and Bischak, C., 2018. How does 'park and ride' perform? An evaluation using longitudinal data. *Transport Policy*, 74, pp.15-23

Hu, S. #, **Chen P.***, Lin, H., Xie, C., and Chen, X., 2018. Promoting carsharing attractiveness and

efficiency: an exploratory analysis. *Transportation Research Part D: Transport and Environment*, 65, pp.229-243.

Chen, P., Jiao, J., Xu, M.* , Gao, X., and Bischak, C., 2018. Promoting active student travel: A longitudinal study. *Journal of Transport Geography* 70, 265-274.

Sun, F., **Chen, P.***, and Jiao, J., 2018. Promoting public bike-sharing: A lesson from the unsuccessful Pronto system. *Transportation Research Part D: Transport and Environment* 63, 533-547.

Chen, P., Liu, Q.* , and Sun, F., 2018. Bicycle parking security and built environments. *Transportation Research Part D: Transport and Environment* 62, 169-178.

Ding, C., **Chen, P.***, and Jiao, J., 2018. Non-linear effects of the built environment on automobile-involved pedestrian crash frequency: A machine learning approach. *Accident Analysis & Prevention* 112, 116-126.

Chen, P., Sun, F.* , Wang, Z., Gao, X., Jiao, J., and Tao, Z., 2018. Built environment effects on bike crash frequency and risk in Beijing. *Journal of Safety Research* 64, 135-143.

Chen, P., Shen, Q.* , and Childress, S., 2018. A GPS data-based analysis of built environment influences on bicyclist route preferences. *International Journal of Sustainable Transportation* 12, 218-231.

Chen, P.*, Zhou, J., and Sun, F., 2017. Built environment determinants of bicycle volume: A longitudinal analysis. *Journal of Transport and Land Use* 10, 655-674.

Liu, Q., **Chen, P.*** and Sun, F., 2017. Parking Policies in China's Metropolises: Rationales, Consequences, and Implications. *Urban Policy and Research*, pp.1-15.

Chen, P.* and Zhou, J., 2016. Effects of the built environment on automobile-involved pedestrian crash frequency and risk. *Journal of Transport & Health*, 3(4), 448-456.

Chen, P.* and Shen, Q., 2016. Built environment effects on cyclist injury severity in automobile-involved bicycle crashes. *Accident Analysis & Prevention*, 86, 239-246.

Liu, Q.* , Wang, J., **Chen, P.** and Xiao, Z., 2016. How does parking interplay with the built environment and affect automobile commuting in high-density cities? A case study in China. *Urban Studies*, p.0042098016667040.

Shen, Q.* , **Chen, P.** and Pan, H., 2016. Factors affecting car ownership and mode choice in rail transit-supported suburbs of a large Chinese city. *Transportation Research Part A: Policy and Practice*, 94, 31-44.

Chen, P.* 2015. Built environment factors in explaining the automobile-involved bicycle crash frequencies: A spatial statistic approach. *Safety Science*, 79, 336-343.

SELECTED PRESENTATIONS/POSTERS

Hu, S., **Chen, P.**, Chen X., 2020. Exploring the Effect of Battery Capacity on Electric Vehicle Sharing Programs using a Simulation Approach. *Transportation Research Board 99th Annual Meeting*, Washington DC

Hu, S., **Chen, P.**, Chen X., 2020. Do Personalized Economic Incentives Work in Promoting Shared Mobility? Examining Customer Churn Using A Time-Varying Cox Model. *Transportation Research Board 99th Annual Meeting*, Washington DC

Deng, J., **Chen, P.**, 2019. Bridge Equal Transit Access for People Living in Affordable Housing. *ACSP 59th Annual Conference*, Greenville, SC

Chen, P., Tu, Y., Gao, X., and Yang, J., 2019. How to make dockless bikeshare good for cities: curbing oversupplied bikes. *Transportation Research Board 98th Annual Meeting*, Washington DC

Chen, P., Hu, S., Shen, Q., Lin, H., Xie, C., 2019. Estimating traffic volume for local streets with imbalanced data. *Transportation Research Board 98th Annual Meeting*, Washington DC

Wang, T. and **Chen, P.**, 2018. Uncovering the pattern of on-street parking availability in Seattle: A survival analysis approach, *Transportation Research Board 97th Annual Meeting*, Washington DC

Chen, P., Liu Q., Sun, F. and Lu, Y., 2017. Bicycle parking security and built environments, *ACSP 57th Annual Conference*, Denver, CO

Sun, F. and **Chen, P.** 2017. Impact of built environment and temporal factors on public bike-sharing, *Transportation Research Board 96th Annual Meeting*, Washington DC

Chen, P. and Shen, Q., 2016. Bicyclist injury risks in different urban forms, *ACSP 56th Annual Conference*, Portland, OR

Chen P. and Liu Q., 2016. "How does parking interplay with the built environment and affect automobile commuting in high-density cities?", *the 14th World Conference on Transport Research*, Shanghai

Chen, P. and Shen, Q., 2016. Bicyclist injury risks in different urban forms, *Annual Meeting of the Association of American Geographers*, San Francisco, CA

Chen, P. and Shen, Q., 2016. A GPS data-based analysis of built environment influences on bicyclist route preferences, *Transportation Research Board 95th Annual Meeting*, Washington DC

Chen, P. 2015. "Built environment factors in explaining bicycle crash frequencies and risks: a spatial statistic Approach", *ACSP 55th Annual Conference*, Houston, TX

Chen, P. and Shen, Q., 2015. Estimating land use and road environment effects on cyclist injury severity, *Transportation Research Board 94th Annual Meeting*, Washington DC

Chen, P. and Shen, Q., 2014. A GPS data-based analysis of built environment influences on bicyclist route preferences, *ACSP 54th Annual Conference*, Philadelphia, PA

Shen, Q.*, **Chen, P.** and Pan, H., 2013. Effects of residential relocation and rail transit development on mode choice and greenhouse gas emissions, *Joint ACSP and AESOP Congress*, Dublin

Chen, P., Wang J. and Zhou J., 2010. Travel-based social exclusion of socioeconomic vulnerable group: with the evidence of Min Le district, *The 12th International Conference on Mobility & Transport for Elderly & Disabled Persons*, Hong Kong

TEACHING

URP 6711 Multimodal Transport Planning 2020 Spring [Instructor, Evaluation: 4.6/5.0]

URP 6549 Urban & Metro Economic Development 2020 Spring [Instructor, Evaluation: 4.0/5.0]

URP 6201 Quantitative Analysis for Urban Planners 2020 Spring [Instructor, Evaluation: 4.67/5.0]

URP 6930/TTE 6655 Transportation and Land Use 2020 Spring [Instructor, Evaluation: 4.67/5.0]

URP 6549 Urban & Metro Economic Development 2019 Fall [Instructor, Evaluation: 4.30/5.0]

SERVICE TO PROFESSION

Journal Editorial Board Member

Transportation Research Part D: Transport and Environment

Journal Article Reviewer

- Urban Geography
- Urban Studies
- Urban Forestry & Urban Greening
- Cities
- Sustainable Cities and Society
- Computers, Environment and Urban Systems
- Transactions in GIS

- Journal of Planning Education and Research
- Transportation
- Transportation Research Part A: Policy and Practice
- Transportation Research Part D: Transport and Environment
- Travel Behavior and Society
- Transportation Letters
- Traffic Injury Prevention
- Journal of Transport Geography
- Journal of Transport and Land Use
- Journal of Public Transportation
- Journal of Transportation Safety and Security
- International Journal of Sustainable Transportation
- Accident Analysis and Prevention

Conference Proceeding Reviewer

COTA International Conference of Transportation Professionals
 World Conference on Transport Research Society
 Transportation Research Board

Conference Discussant

59th Association of Collegiate Schools of Planning at Greenville, SC, USA (Session 1.19. Big Data, Networks, Nodes and Places)
 19th COTA International Conference of Transportation Professionals at Nanjing, Jiangsu, CHN (Session 12. Travel Behavior and Activities)

Conference Proceeding Editor

Area Editor (Transportation Planning and Policy | Travel Behavior) for COTA International Conference of Transportation Professionals, 2018~2019

SKILLS

Language Skills: Mandarin (Native), English (Fluent), Cantonese (Fluent)

Computer Skills

Spatial Analysis and Mapping: ArcGIS, TransCAD, GeoDa
 Statistics and Data Management: R, Python, SPSS, SQL, PostgreSQL, Lisrel, Mplus
 Design: AutoCAD, Adobe Photoshop/InDesign, Sketch Up, Autodesk 3dMax

PROFESSIONAL SOCIETY MEMBERSHIPS

World Conference on Transport Research Society
 World Symposium on Transport and Land Use Research
 Association of Collegiate Schools of Planning
 Transportation Research Board
 Association of American Geographers

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