

## Curriculum Vitae

**Sicheng Wang Ph.D.**

*Incoming Assistant Professor*

Department of Geography

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**EMPLOYMENT**

- 2023– **Assistant Professor**  
Department of Geography  
University of South Carolina
- 2021–2023 **Postdoctoral Research Fellow**  
NSF project - Preparing the Future Workforce for the Era of Automated Vehicles (WEAVE)  
Department of Geography, Environment, and Spatial Sciences, Michigan State University
- 2020–2021 **Instructor in GIScience**  
Department of Geography, University of South Carolina
- 2017–2021 **Graduate Research Assistant**  
Alan M. Voorhees Transportation Center, Rutgers, the State University of New Jersey
- 2016–2017 **Research Assistant**  
National Center for Smart Growth Research and Education, University of Maryland, College Park
- 2013–2016 **Urban Planner/Project Manager**  
Shanghai Tongji Urban Planning & Design Institute, China

**EDUCATION**

- 2017–2021 **PhD**, Planning and Public Policy, Rutgers, the State University of New Jersey, New Brunswick, NJ, USA  
Dissertation: *Travel Behavior of Ridesourcing: A Data-Driven Analysis* (2020 Regional Science Association International Czamanski Dissertation Award/Finalist of 2021 World Society for Transport and Land Use Research Best Thesis Award)  
Committee: Robert B. Noland (Chair), Michael L. Lahr, Michael Smart, Qing Shen

- 2022– **MS (Online)**, Computer Science, Georgia Institute of Technology, Atlanta, GA, USA  
Concentration: Machine Learning
- 2010–2013 **MA**, Artistic Design, Tongji University, Shanghai, China  
Concentration: Urban Studies  
Master Thesis: *The Relationship between Urban Innovation and Higher Education: University of Applied Arts Vienna and its Impact on the City's Art, Design and Creative Industries*  
Advisor: Zhiqiang Wu  
**Graduated with the Outstanding Graduate Honor in Shanghai**
- 2011–2012 CUMULUS Graduate Exchange Program, University of Applied Arts, Vienna, Austria  
Research Project: Vienna's Creative Industries and Urban Innovation
- 2006–2010 **BEng**, Industrial Design, South China University of Technology, Guangzhou, China  
Concentration: *Transportation Tool Design (Automobile Design)*

#### PEER-REVIEWED JOURNAL PUBLICATIONS

- 28 **Wang, Sicheng**, Elizabeth A. Mack, Jenna A. Van Fossen, Laura Medwid, Shelia R. Cotton, Chu-Hsiang Chang, John Mann, Steven R. Miller, Peter T. Savolainen, & Nathan Baker. 2023. "Assessing Alternative Occupations for Truck-Drivers in an Emerging Era of Autonomous Vehicles." *Transportation Research Interdisciplinary Perspectives*, 19: 100793. <https://doi.org/10.1016/j.trip.2023.100793>
- 27 Jin, Tanhua, **Sicheng Wang**, Jun Cao, Tim Schwanen, Frank Witlox, & Long Chen. "Do built environment factors have different effects on ridesourcing usage before and after the COVID-19 pandemic?" *Cities*, 141: 104520  
<https://doi.org/10.1016/j.cities.2023.104520>
- 26 Lu, Junyu, Xiao Huang, Xiao Xiao, Zhenlong Li, John A. Kupfer, Hanxue Wei, **Sicheng Wang**, & Liao Zhu. 2023. "Spatial, Temporal, and Social Dynamics in Visitation to US National Parks before and during the COVID-19 Pandemic: A Big Data Approach." *Tourism Management Perspectives*, 48: 101143.  
<https://doi.org/10.1016/j.tmp.2023.101143>
- 25 Schuster, Amy M., Shubham Agrawal, Noah Britt, Danielle Sperry, Jenna A. Van Fossen, **Sicheng Wang**, Elizabeth A. Mack, Jessica Liberman, & Shelia R. Cotton. 2023. "Will Automated Vehicles Solve the Trucking Driver Shortages? Perspectives from the Trucking Industry." *Technology in Society*, 74: 102313.  
<https://doi.org/10.1016/j.techsoc.2023.102313>
- 24 **Wang, Sicheng**, Joy J. Kim, & Yanfeng Xu. 2022. "Inequality in Activity Participation: Multidimensional Disadvantages and Daily trips by Trip Purpose and Trip Day." *Travel Behaviour and Society*, 29: 211-223. <https://doi.org/10.1016/j.tbs.2022.06.013>

- 23 Chen, Yuche, **Sicheng Wang (corresponding)**, & Xuanke Wu. 2022. “Exploring perceived transportation disadvantages: Distribution, disparities, and associations with the built environment.” *Transportation Research Part D: Transport and Environment*. <https://doi.org/10.1016/j.trd.2022.103497>
- 22 Noland, Robert B., Maria L. Laham, & **Sicheng Wang**. 2022. “Understanding Preferences for Bicycling and Bicycle Infrastructure.” 1-12. *International Journal of Sustainable Transportation*. <https://doi.org/10.1080/15568318.2022.2142920>
- 21 Lee, Annie S., Michael L. Lahr, & **Sicheng Wang**. 2022. “Couple Households and the Commuting-Time Gender Gap.” *Professional Geographer*, 74, 4: 688-703. <https://doi.org/10.1080/00330124.2022.2075407>
- 20 Wei, Hanxue, Xiao Huang, **Sicheng Wang**, Junyu Lu, Zhenlong Li, & Liao Zhu. 2022. “A Data-Driven Investigation on Park Visitation and Income Mixing of Visitors in New York City.” *Environment and Planning B: Urban Analytics and City Science*, 9, <https://doi.org/10.1177/23998083221130708>
- 19 **Wang, Sicheng**, & Robert Noland. 2021. “What Is the Elasticity of Sharing a Ridesourcing Trip?” *Transportation Research Part A: Policy and Practice*, 153: 284-305. <https://doi.org/10.1016/j.tra.2021.09.008>
- 18 **Wang, Sicheng**, & Robert Noland. 2021. “Variation in Ride-Hailing Trips in Chengdu, China.” *Transportation Research Part D: Transport and Environment*, 90: 102596. <https://doi.org/10.1016/j.trd.2020.102596>
- 17 **Wang, Sicheng**, Xuanke Wu, & Yuche Chen. 2021. “Association between Perceived Transportation Disadvantages and Opportunity Inaccessibility: A Social Equity Study.” *Transportation Research Part D: Transport and Environment*, 101: 103119. <https://doi.org/10.1016/j.trd.2021.103119>
- 16 Mack, Elizabeth, Shubham Agrawal, & **Sicheng Wang**. 2021. “The Impacts of the COVID-19 Pandemic on Transportation Employment: A Comparative Analysis.” *Transportation Research Interdisciplinary Perspectives*, 12: 100470. <https://doi.org/10.1016/j.trip.2021.100470>
- 15 Huang, Xiao, Junyu Lu, Song Gao, **Sicheng Wang**, Hanxue Wei, & Xinyue Ye. 2021. “Staying at Home Is a Privilege: Evidence from Fine-Grained Home-Dwelling Records in the U.S. during the COVID-19 Pandemic.” *Annals of the Association of American Geographers*, 1-20 <https://doi.org/10.1080/24694452.2021.1904819>
- 14 Huang, Xiao, Yang Xu, Rui Liu, Siqi Wang, **Sicheng Wang**, Mengxi Zhang, Yuhao Kang, Song Gao, Bo Zhao, & Zhenlong Li. 2022. “Exploring Home-Dwelling Time Patterns during the COVID-19 Pandemic via Bayesian Inference: Policy Compliance, Spatial Disparity, and Exposed Inequity.” *Transactions in GIS*, 3. <https://doi.org/10.1111/tgis.12918>
- 13 **Wang, Sicheng**, Zhiqiu Jiang, Robert Noland, & Andrew Mondschein. 2020. “Attitudes towards Privately-Owned and Shared Autonomous Vehicles.” *Transportation Research Part F: Traffic Psychology and Behaviour*, 72: 297-306. <https://doi.org/10.1016/j.trf.2020.05.014>

- 12 **Wang, Sicheng**, & Michael Smart. 2020. "The Disruptive Effect of Ridesourcing Services on For-Hire Vehicle Drivers' Income and Employment." *Transport Policy*, 89: 13-23. <https://doi.org/10.1016/j.tranpol.2020.01.016>
- 11 **Wang, Sicheng**, & Yanfeng Xu. 2020. "Transit Use of Single-Parent Households: Evidence from Maryland." *Transportation Research Interdisciplinary Perspectives*, 8: 100223. <https://doi.org/10.1016/j.trip.2020.100223>
- 10 Wang, Zhenbao, **Sicheng Wang (co-first author)**, & Haitao Lian. 2020. "A Route Optimization Algorithm for Long-Distance Commuter Express Bus Service Based on OD Estimation from Mobile Phone Location Data: A Case of the Changping Corridor in Beijing." *Public Transport*, 13 (1): 101-125. <https://doi.org/10.1007/s12469-020-00254-w>
- 9 Zhang, Wenwen, Kaidi Wang, **Sicheng Wang**, Zhiqiu Jiang, Andrew Mondschein, & Robert Noland. 2020. "Synthesizing Neighborhood Preferences for Automated Vehicles." *Transportation Research Part C: Emerging Technologies*, 120: 102774. <https://doi.org/10.1016/j.trc.2020.102774>
- 8 Ralph, Kelcie, Michael J. Smart, Robert B. Noland, **Sicheng Wang**, & Lisa Cintron. 2020. "Is It Really Too Far? Overestimating walk Time and Distance Reduces Walking." *Transportation Research Part F: Traffic Psychology and Behaviour*, 74: 522-535. <https://doi.org/10.1016/j.trf.2020.09.009>
- 7 Huang, Xiao, Zhenlong Li, Junyu Lu, **Sicheng Wang**, Hanxue Wei, & Xiaoxu Chen. "Time-Series Clustering for Home Dwell Time during COVID-19: What Can We Learn from It?" *ISPRS International Journal of Geo-Information*, 11: 675. <https://doi.org/10.3390/ijgi9110675>
- 6 Jiang, Zhiqiu, **Sicheng Wang**, Andrew Mondschein, & Robert Noland. 2020. "Spatial Distributions of Attitudes and Preferences towards Autonomous Vehicles." *Transport Findings*, May. <https://doi.org/10.32866/001c.12653>
- 5 Noland, Robert, **Sicheng Wang**, Scott Kulp, & Benjamin Strauss. 2019. "Employment Accessibility and Rising Seas." *Transportation Research Part D: Transport and Environment*, 77(12): 560-572. <https://doi.org/10.1016/j.trd.2019.09.017>
- 4 Kim, Jeounghee, & **Sicheng Wang**. 2019. "Head Start Availability and Supply Gap of Licensed Childcare Slots: A New Jersey Study." *Children and Youth Services Review*, 104: 104394. <https://doi.org/10.1016/j.childyouth.2019.104394>
- 3 Wang, Wei, & **Sicheng Wang**. 2016. "Sino-US Comparative Research on Urban Development of University Driven Innovation under the Spatial Perspective." *Beijing City Planning & Construction Review*, 4: 76-82. (In Chinese).
- 2 **Wang, Sicheng**, & Yanfeng Xu. 2015. "A Study on the Model Transition of Creative Industries in Chinese Cities." *China Ancient City*, 161(2), 15-21. (In Chinese).
- 1 **Wang, Sicheng**. 2014. "A Design Philosophy Rooted in the Chinese Traditional Life Wisdom." *Art and Design*, 117(10), 26-28. (In Chinese).

## MANUSCRIPTS UNDER REVIEW

- 5 Schuster, Amy M., Jenna A. Van Fossen, Jessica Liberman, Shubham Agrawal, **Sicheng Wang**, Elizabeth A. Mack, Danielle Sperry, & Shelia R. Cotten. “The future of gig drivers in the era of automated vehicles.” Submitted
- 4 **Wang, Sicheng**, Jenna A. Van Fossen, Elizabeth A. Mack, Shubham Agrawal, Chu-Hsiang Chang, Shelia R. Cotton, & Peter T. Savolainen. “Technological Change, Aging and the Workforce: An Occupational Perspective.” Revised and resubmitted.
- 3 **Wang, Sicheng**, Robert B. Noland, & Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Revised and resubmitted.
- 2 **Wang, Sicheng**, Rui Du, & Annie S. Lee. “Ridesourcing, Regulation, and Urban Traffic: A New York City Case.” Under review.
- 1 Torosyan, Karine, Elizabeth A. Mack, Jenna A. Van Fossen, Nathan Baker, & **Sicheng Wang (Corresponding Author)**. “Assessing the Impact of Technological Change on Similar Occupations: Implications for Employment Alternatives.” Under review.

## BOOK CHAPTERS

- 1 Wu, Zhiqiang, Chunqing Ma, Jing Han, **Sicheng Wang**. *Sustainable Planning & Design for the International Horticultural Exposition 2014 Qingdao*. Beijing: China Architecture & Building Press, 2015.

## HONORS, AWARDS, AND SCHOLARSHIPS

- 2022 **Chinese Government Award for Outstanding Students Abroad**, China Scholarship Council, Ministry of Education, China, **\$6,000**.
- 2021 **2021 IACP Karen R. Polenske Best Student Paper Award**, International Association for China Planning (IACP), **\$1,000**.
- 2021 **2021 THNS (Transports à Haut Niveau de Service) Best Research Gold Award**, 2021 THNS (The International Symposium on Sustainable Development of Urban Transport Systems) Resilient City and Transport Forum
- 2021 **Finalist of 2021 Best PhD Dissertation Award**, World Symposium on Transport and Land Use Research (WSTLUR)
- 2020 **2020 Czamanski Dissertation Award**, The Regional Science Association International (RSAI), **\$1,000**.
- 2020 **2020 IACP Karen R. Polenske Best Student Paper Award**, International Association for China Planning (IACP), **\$1,000**.
- 2020 **University and Louis Bevier Fellowship**, School of Graduate Studies, Rutgers University, **\$25,000 and 4-credit tuition remission**.
- 2020 **“Getting Started Teaching Online” Grant**, Center for Teaching Excellence, University of South Carolina, **\$500**.
- 2020 **Rutgers University School of Graduate Studies Conference Travel Award**, **\$450**.

- 2020 **Winter School Award on Responsible Innovation and Social Studies of Emerging Technologies**, National Science Foundation (Award #1626153) / Arizona State University, full travel fund.
- 2019 **2019 American Public Transportation Foundation Scholarship**, Valarie J. McCall Scholarship, American Public Transportation Foundation, \$6,500.
- 2018 **Full Registration Scholarship**, Association of Collegiate School of Planning 2019 Annual Conference in Greenville, SC, awarded by ACSP, \$285.
- 2018 **2018 American Public Transportation Foundation Scholarship**, Valarie J. McCall Scholarship, American Public Transportation Foundation, \$7,500.
- 2018 **2018 Snowball Scholarship**, Bloustein School of Planning and Public Policy, Rutgers University, \$500.
- 2018 **Scholarship of the Epidemiology and Population Health Summer Institute**, Columbia University, \$400.
- 2017 **Small Grants Award**, American Planning Association Transportation Planning Division, \$500.
- 2015 **Gold Prize**, Fifth Environmental Design Award of China, *The Master Plan of 2014 Qingdao International Horticultural Exposition*.
- 2014 **Annual Outstanding Design Award**, Fourth International Landscape Planning and Design Competition, *The Master Plan of 2014 Qingdao International Horticultural Exposition*.
- 2014 **Second Prize in the Urban Sociology Paper Contest**, 2014 Chinese Sociological Association Academic Annual Conference, *An Exploration of the Types and Mechanisms of Creative Communities Based on New Urbanization Perspectives*.
- 2013 **Outstanding Graduate Honor (Honor Graduate) of Shanghai**, Shanghai Municipal Education Commission.
- 2012 **National Scholarship for Graduate Students**, Ministry of Education of China, ¥20,000.
- 2012 **Annual Outstanding Student Prize** (2011-2012), Tongji University.
- 2012 **Third Prize of the Paper Competition**, 2012 China Urban Development Forum, *An Exploration of Methods and Process of Planning for Urban Creative Industries: An Analysis of the Three-Year Action Plan for Cultural Creative Industries of Shanghai's Yangpu District*, ¥200.
- 2012 **Kwang-Hua Scholarship**, Kwang-Hua Education Foundation, ¥3,000.
- 2011 **Finalist**, Victonnox Swiss Army Watch "Time to Care" Sustainability Design.
- 2011 **Travel Award**, Tongji-On-Tracks Entrepreneurship and Innovation Workshop, Volvo Group, ¥5,000.
- 2010 **Prize for Excellence**, Second "Lotus Prize" International Industrial Design & Innovation Competition.
- 2009 **Elecpro Scholarship**, Elecpro Group, ¥5,000.
- 2008 **China International Marine Containers Scholarship**, CIMC Education Foundation, ¥3,000.

- 2007 **China International Marine Containers Scholarship**, CIMC Education Foundation, ¥3,000.
- 2006, **Annual Outstanding Student Prize**, South China University of Technology.  
2007

## RESEARCH GRANTS AND RESEARCH FUNDING

### *External Grants Awarded*

- 2017 **American Planning Association (APA), Transportation Planning Division (TPD), Small Grants Award**  
Title: *Is Transit Important for Single Parents?*  
Principal Investigator: Sicheng Wang  
Value: \$500  
<https://transportation.planning.org/in-the-community/small-grants/>

### *Internal Grants Awarded*

- 2021 **Advanced Support for Innovative Research Excellence (ASPIRE)- I, University of South Carolina Office of the Vice President for Research**  
Title: *Examining Social Disparities in Travel Barrier: Development of A Perception-Based Travel Difficulty Index*  
Co-Principal Investigator: Yuche Chen, Sicheng Wang  
Value: \$14,973
- 2020 **University and Louis Bevier Dissertation Completion Fellowship, Rutgers University**  
Title: *Travel Behavior of Ridesourcing: A Data-Driven Analysis?*  
Principal Investigator: Sicheng Wang  
Value: \$25,000

### *Unsuccessful External Grant Applications*

- 2018 **Federal Reserve Bank of Philadelphia RFP: Regional Visiting Scholars Program**  
Title: *Disparity in Accessibility of Child Care Service in NJ Neighborhoods: A Gravity Model through Network Analysis*  
Co-principal investigators: Jeounghee Kim and Sicheng Wang
- 2018 **Pardee School of Global Studies RFP: Laura Bassi Scholarship**  
Title: *Thriving or Disruptive? Taxi Drivers' Income, Employment, and Livelihood in the Era of the Sharing Economy*  
Co-principal investigators: Sicheng Wang

## CONFERENCE PAPERS AND PRESENTATIONS

- 47 **Wang, Sicheng, & Elizabeth A. Mack.** "Technological Change for Precarious Work: Perception of Autonomous Vehicles from Transportation Platform Drivers." Oral

- presentation at the 69<sup>th</sup> North American Meetings of the Regional Science Association International, Montreal, Canada, November 9-12, 2022.
- 46 **Wang, Sicheng**, Xiao Huang, & Qing Shen. “Trends in Travel Demand of Ridesourcing during the Pandemic and Factors of Land Use: A Time-Series Clustering Analysis on Chicago Data.” Oral presentation at the 2022 Association of Collegiate Schools of Planning Annual Conference, Toronto, Canada, November 3-5, 2022.
- 46 Chen, Yuche, **Sicheng Wang (presenting)**, & Xuanke Wu. “Spatial distribution and Social Disparities of Perceived Transportation Disadvantages.” Oral presentation at the 16th International Association for China Planning Annual Conference. Wuhan, China, June 23-27, 2022.
- 44 **Wang, Sicheng**, Yuche Chen, Xuanke Wu. “Association between Perceived Transportation Disadvantages and Opportunity Inaccessibility: A Social Equity Study.” Presentation at the 2022 Transportation Research Board 101th Annual Meeting, Washington D.C., January 9-13, 2022.
- 43 Mack, Elizabeth A, Shubham Agrawal, **Sicheng Wang**. “The Impacts of the COVID-19 Pandemic on Transportation Employment: A Comparative Analysis?” Presentation at the 2022 Transportation Research Board 101th Annual Meeting, Washington D.C., January 9-13, 2022.
- 42 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Presentation at the 2022 Transportation Research Board 101th Annual Meeting, Washington D.C., January 9-13, 2022.
- 41 **Wang, Sicheng**, Yuche Chen, Xuanke Wu. “Association between Perceived Transportation Disadvantages and Opportunity Inaccessibility: A Social Equity Study.” Oral presentation at the 2021 THNS Resilient City and Transport Conference, virtual Conference, Shanghai, China, October 28-29 & November 4-5, 2021
- 40 Mack, Elizabeth A, Shubham Agrawal, **Sicheng Wang**. “The Impacts of the COVID-19 Pandemic on Transportation Employment: A Comparative Analysis?” Oral presentation at the 2021 North American Regional Science Council (NARSC) Annual Meeting, Denver, CO, USA, November 8-13, 2021.
- 39 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Oral presentation at the 2021 North American Regional Science Council (NARSC) Annual Meeting, Denver, CO, USA, November 8-13, 2021.
- 38 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Oral presentation at the 2021 Association of Collegiate Schools of Planning Annual Conference, Miami, FL, USA, October 21-23, 2021.
- 37 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Invited oral presentation at the 2021 World Symposium on Transport and Land Use Research (WSTLUR) conference, virtual conference, August 9-13, 2021.
- 36 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Invited oral presentation at the 2021 Regional Science Association International World Conference, virtual conference, May 25-28, 2021.



- 35 **Wang, Sicheng**, Robert Noland, Xiao Huang. “Does Ridesourcing Provide Equitable Accessibility?” Oral presentation at the 2021 International Association for China Planning Annual Conference. Nanjing, China, June 20-21, 2021.
- 34 **Wang, Sicheng**, Jeoung-Hee Kim, Yanfeng Xu. “Effects of Multidimensional Disadvantages on Daily Trips for Three Out-Of-Home Activities.” 2021 Transportation Research Board 100th Annual Meeting, virtual conference, January 21-29, 2021.
- 33 **Wang, Sicheng**, Robert Noland. “Price Elasticity of Sharing A Ridesourcing Trip.” 2021 Transportation Research Board 100th Annual Meeting, virtual conference, January 21-29, 2021.
- 32 **Wang, Sicheng**, Rui Du, Annie Lee. “How Ridesourcing Regulations Affect Urban Traffic?: A New York Case.” 2020 North American Regional Science Council (NARSC) Annual Meeting, virtual conference, November 9-13, 2020.
- 31 **Wang, Sicheng**, Robert Noland. “Elasticities for Sharing a Ride in TNC Trips in Chicago.” Oral presentation at 2020 ACSP 60th Annual Conference, virtual conference, November 5-8, 2020.
- 30 **Wang, Sicheng**, Robert Noland. “How Ridesourcing Reshapes Accessibility.” Poster presentation at 2020 ACSP 60th Annual Conference, virtual conference, November 5-8, 2020.
- 29 **Wang, Sicheng**, Robert Noland. “Variation in Ride-Hailing Trips in Chengdu, China.” Oral presentation at 2020 2nd Bridging Transport Research Online Conference, virtual conference, August 11-12, 2020.
- 28 **Wang, Sicheng**. “Elasticities for Sharing a Ride in TNC Trips in Chicago.” Oral presentation at 2020 International Association for China Planning Annual Conference, virtual conference, December 5-13, 2020.
- 27 Zhang, Wenwen, Kaidi Wang, **Sicheng Wang**, Zhiqiu Jiang, Andrew Mondschein, Robert Noland. “Machine Learning-Based Microsimulation Approach for the Spatial Distributions of Automated Vehicle Preferences.” Oral presentation at the International Symposium on Transportation Data and Modelling, Ann Arbor, MI, USA, June 24-26, 2020 (Postponed due to COVID-19).
- 26 **Wang, Sicheng**, Rui Du, Annie Lee. “How Ridesourcing Regulations Affect Urban Traffic? A New York Case.” Oral presentation at the 59th Meetings of the Southern Regional Science Association, Savannah, GA, USA, April 2-4, 2020 (Canceled due to COVID-19).
- 25 **Wang, Sicheng**, Zhiqiu Jiang, Robert Noland, Andrew Mondschein. “Attitudes toward Privately Owned and Shared Autonomous Vehicles.” Poster presentation at the 2020 Transportation Research Board 99th Annual Meeting, Washington, DC, USA, January 12-16, 2020.
- 24 Jiang, Zhiqiu, **Sicheng Wang**, Andrew Mondschein, Robert Noland. “Effects of the Built Environment on Attitudes toward Autonomous Vehicles.” Poster presentation at the 2020 Transportation Research Board 99th Annual Meeting, Washington, DC, USA, January 12-16, 2020.

- 23 **Wang, Sicheng**, Robert Noland. “Variation in Ride-Hailing Trips in Chengdu, China.” Oral presentation at the 2019 North American Regional Science Council Annual Meeting, Pittsburgh, PA, USA, November 13-16, 2019.
- 22 **Wang, Sicheng**, Michael Lahr, Robert Noland, Jing Han. “Housing Prices in Chengdu, China and their Association with the Distribution and Duration of Ride-Hailing Trips.” Oral presentation at the 2019 North American Regional Science Council Annual Meeting, Pittsburgh, PA, USA, November 13-16, 2019.
- 21 **Wang, Sicheng**, Robert Noland. “Ride-Sharing Trip Generation in Chengdu, China.” Oral presentation at the 59th Association of Collegiate Schools of Planning Annual Conference, Greenville, SC, USA, October 24-27, 2019.
- 20 **Wang, Sicheng**, Zhiqiu Jiang, Robert Noland, Andrew Mondschein. “Attitudes toward Privately Owned and Shared Autonomous Vehicles.” Oral presentation at the 59th Association of Collegiate Schools of Planning Annual Conference, Greenville, SC, USA, October 24-27, 2019.
- 19 Jiang, Zhiqiu, **Sicheng Wang**, Andrew Mondschein, Robert Noland. “Effects of the Built Environment on Attitudes toward Autonomous Vehicles.” Oral presentation at the 59th Association of Collegiate Schools of Planning Annual Conference, Greenville, SC, USA, October 24-27, 2019.
- 18 **Wang, Sicheng**. “Generation of Trips Using DiDi in Chengdu.” Oral presentation at 2019 International Association for China Planning Annual Conference, Chengdu, China, June 13-15, 2019.
- 17 **Wang, Sicheng**, Micheal Smart. “The Disruptive Effect of Ridesharing Services on Taxi Drivers’ Income and Employment.” Oral lightning presentation at the 11th Annual Krueckeberg Doctoral Conference in Urban Studies, Urban Planning, and Public Policy, New Brunswick, NJ, USA, March 7, 2019.
- 16 Noland, Robert, **Sicheng Wang**, Scott Kulp, Benjamin Strauss. “Employment Accessibility and Rising Seas.” Poster presentation at the 2019 Transportation Research Board 98th Annual Meeting, Washington, DC, USA, January 13-17, 2019.
- 15 Ralph, Kelcie, Michael Smart, Robert Noland, **Sicheng Wang**, Lisa Cintron. “Misperceptions of Walking Time and Distance.” Poster presentation at the 2019 Transportation Research Board 98th Annual Meeting, Washington, DC, USA, January 13-17, 2019.
- 14 **Wang, Sicheng**, Yanfeng Xu, Chao Liu. “Is Transit Important for Single Parents? Evidence from Maryland.” Poster presentation at the 2019 Transportation Research Board 98th Annual Meeting, Washington, DC, USA, January 13-17, 2019.
- 13 Noland, Robert, **Sicheng Wang**, Scott Kulp, Benjamin Strauss. “Employment Accessibility and Rising Seas.” Poster presentation at the 2018 American Geophysical Union Fall Meeting, Washington, DC, USA, December 10-14, 2018.
- 12 **Wang, Sicheng**, Zhiqiu Jiang, Robert Noland, Andrew Mondschein. “Are People Ready for Fully Autonomous Vehicles?” Oral presentation at the 58th Association of Collegiate Schools of Planning Annual Conference, Buffalo, NY, USA, October 25-28, 2018.

- 11 **Wang, Sicheng**, Micheal Smart, Nicholas Klein. “Thriving but Disruptive? The Change of Taxi Drivers’ Income and Employment in the Era of the Sharing Economy.” Poster presentation at the 58th Association of Collegiate Schools of Planning Annual Conference, Buffalo, NY, USA, October 25-28, 2018.
- 10 Ralph, Kelcie, Michael Smart, Robert Noland, **Sicheng Wang**, Lisa Cintron. “Misperceptions of Walking Time and Distance.” Oral presentation at the 58th Association of Collegiate Schools of Planning Annual Conference, Buffalo, NY, USA, October 25-28, 2018.
- 9 Wang, Zhenbao, **Sicheng Wang**, Yanyan Chen. “A Route Optimization Algorithm for Long-distance Commuter Express Bus Service Based on OD Estimation from Mobile Phone Location Data: A Case of the Changping Corridor in Beijing.” Poster presentation at the 2018 Transportation Research Board 97th Annual Meeting, Washington, DC, USA, January 7-11, 2018.
- 8 **Wang, Sicheng**, Wei Wang. “Rural E-commerce and its Interaction with China’s Urbanization: A Spatial and Land Use Study on E-Commerce Villages.” Poster presentation at the 57th Association of Collegiate Schools of Planning Annual Conference, Denver, CO, USA, October 12-15, 2017.
- 7 **Wang, Sicheng**. “Innovation Unit Model: Planning for Urban Innovative Network Systems”, accepted by the 2015 Annual Conference on Urban Development and Planning, Guangzhou, China, July 22-23, 2015.
- 6 **Wang, Sicheng**, Keke Le, Jiaying Lin, Jing Han. “A Spatial Study on Creative Communities around Tongji University in Shanghai Based on the Data Analysis of Professional Social Networks.” Oral presentation at the Association of European Schools of Planning 2015 Congress, Prague, Czech Republic, July 13-16, 2015.
- 5 **Wang, Sicheng**, Lingling Tang, Lingyu Kong, Jing Han. “Waterfront Space Use in Coastal Metropolises-An Empirical Study Based on Quantitative Analysis.” Poster presentation at the Association of European Schools of Planning 2015 Congress, Prague, Czech Republic, July 13-16, 2015.
- 4 **Wang, Sicheng**, Yanfeng Xu. “An Exploration of the Types and Mechanisms of Creative Communities Based on New Urbanization Perspectives.” Oral presentation at the Chinese Sociological Association Academic Annual Conference, Wuhan, China, July 10-12, 2014. **Awarded Second Place in the Urban Sociology Track.**
- 3 Xu, Yanfeng, **Sicheng Wang**. “The Relationship between Sexual Assault and Public Urban Infrastructures and Space - Illustrated by Research on Public Lavatories in Chinese Cities.” Oral presentation at the 2013 China Association for Social Work Education Annual Conference, Guangzhou, China, August 18-20, 2013. **Awarded Third Place in the Paper Competition.**
- 2 Xu, Yanfeng, **Sicheng Wang**. “The Relationship between Sexual Assault and Public Urban Infrastructures and Space - Illustrated by Research on Public Lavatories in Chinese Cities.” Oral presentation at the AESOP-ACSP Joint Congress, Dublin, Ireland, July 15-19, 2013.

- 1 **Wang, Sicheng**, Wenqi Yang, Yingying Zhou, Li Wang, Hua Dong, “Management Styles of Design Companies in Shanghai.” Oral presentation at the Tsinghua-DMI International Design Management Symposium, Hong Kong, China, December 3-5, 2011.

#### TECHNICAL REPORTS

- 2 Noland, Robert, Jack Molenaar, Angie Bonilla, Jon Carnegie, Amy Davidow, Anne Gutsick, Robert Laumbach, RJ Palladino, Jeff Perlman, Kelcie Ralph, Michael Smart, Jenn Stuart, Hao Wang **Sicheng Wang**, Ellen White. 20207. *Task Force on Carbon Neutrality and Climate Resilience Solutions Assessment: Transportation*. Office of the President, Rutgers University.
- 1 Iseki, Hiroyuki, Chao Liu, **Sicheng Wang**. 2017. *Time-of-Day Direct Ridership Model for Maryland Rail Transit*. National Center for Smart Growth Research and Education, University of Maryland, College Park, prepared for the Maryland Transportation Authority.  
[https://www.umdsmartgrowth.org/wp-content/uploads/2017/10/20170709-MTA\\_DRM\\_Final.pdf](https://www.umdsmartgrowth.org/wp-content/uploads/2017/10/20170709-MTA_DRM_Final.pdf)

#### INVITED PRESENTATIONS

- 10 “GIS and Cartographic Approaches to Equity of Transportation and Accessibility.” School of Traffic & Transportation Engineering, Central South University, Changsha, China. July 6, 2023.
- 9 “GIS and Cartographic Approaches to Equity of Transportation and Accessibility.” School of Geosciences and Info-physics, Central South University, Changsha, China. May 30, 2023.
- 8 “The Geography of Telework.” 2023 Annual Symposium for the University of Washington’s Interdisciplinary Ph.D. Program in Urban Design and Planning and Ph.D. Program in the Built Environment. May 19, 2023.
- 7 “User-centered Smart Mobility System.” The 8<sup>th</sup> International Young Scholar Forum of Tongji University. Shanghai, January 15, 2023
- 6 “Does Ridesourcing Provide Equitable Accessibility?” The 24th Chinese Overseas Transportation Association (COTA) Winter Symposium, the Transportation Research Board (TRB) 101st Annual Meeting, Washington D.C., January 9, 2022
- 5 “Cross-disciplinary and Cross-cultural Academic Career.” The 3rd World Urban Intelligence Symposium, Tongji University, December 11, 2021
- 4 “Social Equity and Transportation.” Michigan State University, November 23, 2021.
- 3 “Innovative Cartography for Urban Planning and Policymaking.” Cornell University, April 28, 2021.
- 2 “Travel Behavior of Ridesourcing.” San Jose State University, April 15, 2021
- 1 “Travel Behavior of Ridesourcing.” East China Normal University, April 11, 2021.

## MEDIA COVERAGE

- 8 Delgado, Carla. 2021. "Study: Stay-at-Home COVID Orders Were a Luxury Many Couldn't Afford." Verywellhealth. Available at <https://www.verywellhealth.com/stay-at-home-orders-low-income-covid19-5187273>.
- 7 Taylor & Francis Group. 2021. "Data from Million Mobile Users Further Shows Poorer People Less Able to Stay at Home COVID Rules." EurekAlert! – AAAS. Available at <https://www.newswise.com/coronavirus/data-from-45-million-mobile-users-further-shows-poorer-people-less-able-to-stay-at-home-covid-rules>.
- 6 Anderer, John. 2021. "Cell Phone Data Reveals Poorer People Are Less Able to Follow Stay-at-home Orders during COVID-19." Study Finds. Available at <https://www.studyfinds.org/poorer-people-stay-at-home-covid/>.
- 5 ANI. 2021. "Here's Why Poorer People Are Less Able to Stay at Home amid Covid-19 Pandemic, Hindustan Times. Available at <https://www.hindustantimes.com/lifestyle/health/heres-why-poorer-people-are-less-able-to-stay-at-home-amid-covid-19-pandemic-101622205397654.html>.
- 4 News Wise. 2021. "Data from 45 Million Mobile Users Further Shows Poorer People Less Able to Stay at Home COVID Rules." Available at [https://www.newswise.com/coronavirus/data-from-45-million-mobile-users-further-shows-poorer-people-less-able-to-stay-at-home-covid-rules/?article\\_id=752086](https://www.newswise.com/coronavirus/data-from-45-million-mobile-users-further-shows-poorer-people-less-able-to-stay-at-home-covid-rules/?article_id=752086).
- 3 **Wang, Sicheng**, Robert B. Noland. 2020. "Research: Variation in ride-hailing trips in Chengdu, China" Bloustein School, Rutgers University. Available at [https://bloustein.rutgers.edu/research-variation-in-ride-hailing-trips-in-chengdu-china/?fbclid=IwAR121sGEGqAFLPhWy9WYrfoJ4HOev26NczwSENBN7j01Qs\\_31uA4hLPxcxIo](https://bloustein.rutgers.edu/research-variation-in-ride-hailing-trips-in-chengdu-china/?fbclid=IwAR121sGEGqAFLPhWy9WYrfoJ4HOev26NczwSENBN7j01Qs_31uA4hLPxcxIo)
- 2 Kim, Jeounghee, **Sicheng Wang**. 2019. "Head start programs alleviate supply gap of center-based childcare in NJ: Study evaluates public programs designed to serve low-income families." American Association for the Advancement of Science. Available at [https://www.eurekalert.org/pub\\_releases/2019-08/ru-hsp082619.php](https://www.eurekalert.org/pub_releases/2019-08/ru-hsp082619.php)
- 1 **Wang, Sicheng**. 2018 "Is transit important for single parents?: Evidence from Maryland." American Planning Association Transportation Planning Division. Available at <https://mailchi.mp/3c534a9d892b/prwe4o3r73-1400381>

## RESEARCH EXPERIENCE

- 2021–                    **Research Associate**, Department of Geography, Environment, and Spatial Sciences, Michigan State University, MI, USA  
Supervisor: Dr. Elizabeth Mack  
Project:
  - *NSF funded project - Preparing the Future Workforce for the Era of Automated Vehicles*
- 2018–2021           **Principal Investigator**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA  
Supervisor: Dr. Robert Noland

Project:

- *Attitudinal Survey Study on Private and Shared Autonomous Vehicles*

Designed and programmed online survey questionnaire; prepared IRB application; cleaned and recoded collected data; conducted exploratory factor analysis and multinomial logit regression; led manuscript writing and revision.

2017–2021

**Research Assistant**, Alan M. Voorhees Transportation Center, New Brunswick, NJ, USA

Supervisor: Dr. Robert Noland

Projects:

- *Rutgers Climate Task Force Survey*
- *Employment Accessibility and Rising Seas*
- *Pedestrian Behavior and Misperception of Walking Distances and Times*
- *National Transit Institution Training Needs Assessment Project*
- *The Bus Study Survey in New Jersey*

Processed raster sea-level data and survey datasets; performed GIS-based network analysis (OD-cost matrix); developed job accessibility index based on gravity measures; conducted survey data analysis (crosstab, *t*-test, regression), mapping, and data visualization; participated in manuscript writing and revision.

2018–2019

**Research Assistant**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA

Supervisor: Dr. Michael Lahr

Project:

- *Toward Understanding the U.S. Population Subject to the Nation's Social Safety Net: Consumption Patterns and Economic Mobility*

Cleaned and merged multiple administrative datasets; reviewed and summarized literature; conducted data analysis and visualization.

2017–2020

**Research Assistant**, School of Social Work, Rutgers University, New Brunswick, NJ, USA

Supervisor: Dr. Jeounghee Kim

Project:

- *Accessibility and Social Inclusion*
- *New Jersey Department of Human Services - Child Care Market Study*

Assisted with literature review and research design; analyzed geospatial data using ArcGIS and ArcGIS online; analyzed administrative data using R and STATA; cleaned and recoded survey data; conducted mapping and data visualization using ArcGIS, R, and STATA; participated in report writing.

2017–2018

**Research Assistant**, Alan M. Voorhees Transportation Center, New Brunswick, NJ, USA

Supervisor: Dr. Deva Deka & Mark Walzer

Project:

- *The Bus Study Survey in New Jersey*

- Collected survey data from NJ Transit buses and trains; coordinated surveyors from different programs
- 2016–2017 **Research Assistant**, National Center for Smart Growth Research and Education, University of Maryland, College Park, MD, USA  
Supervisor: Dr. Hiroyuki Iseki & Dr. Chao Liu  
Project:
  - *MDOT/MTA Rail Transits Ridership-Land Use Model*
  - *The Opportunity Maps for the Baltimore Innovation Village*Input observation and survey data; cleaned and merged multiple datasets; conducted regression and developed direct ridership models; led mapping and data visualization; participated in report writing.
- 2013–2016 **Research Assistant**, China Intelligent Urbanization Co-Creation Center for High Density Region, Tongji University, Shanghai, China  
Supervisor: Dr. Zhiqiang Wu  
Projects:
  - *Cutting-Edge Monographic Study for Qingdao Central Activities Zone*
  - *Big-Data, Urban Planning and Construction of Intelligent City*
  - *Strategy Research on the Integrative Relation between Big-Data Industry and Intelligent Urbanization*
  - *Structuring Global Innovative City and Strategic Planning for Megalopolis Development in China*
- 2010–2013 **Research Assistant**, World Urban Sustainability Lab, Tongji University, Shanghai, China  
Supervisor: Dr. Zhiqiang Wu  
Project:
  - *Case Study on Regional and Urban Innovation in Yangtze River Delta Region*Led field study and data collection; reviewed and summarized literature; conducted interviews with mayors; conducted a case study of Taicang.

## TEACHING EXPERIENCE

- 2020-2021 **Instructor**, Department of Geography, University of South Carolina, Columbia, SC, USA  
Courses: GEOG 105: *The Digital Earth* (Spring 2020, Spring 2021)  
GEOG 341: *Cartography* (Fall 2020) (required course for the GEOINT Certificate)
- 2019 **Teaching Assistant**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA  
Course: 775 395: 01/ 775 395: 02 *Research Methods (undergraduate level, two sessions)*  
Guest speaker session: Representativeness  
Instructor: Nathan Foote

- 2019      **Teaching Assistant**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA  
Course: 970 553: 01 *Methods of Transportation Planning (graduate level)*  
Instructor: Dr. Michael Smart
- 2018- 2019      **Teaching Assistant**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA  
Course: 970 516: 01 *Planning Methods (graduate level)*  
Instructor: Dr. Mi Shih
- 2017      **Guest Lecturer**, Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ, USA  
Course: 970 509: 01 *Urban Economy & Spatial Patterns (graduate level)*  
Guest speaker session: *Urban Economics and Transportation*  
Instructor: Dr. Michael L. Lahr
- 2013–2016      **Teaching Assistant**, College of Architecture and Urban Planning, Tongji University, Shanghai, China  
Course: *Diploma Project of B.Eng. in Urban and Rural Planning (studio, undergraduate level)*  
Instructor: Dr. Zhiqiang Wu
- 2011      **Graduate Teaching Assistant**, College of Architecture and Urban Planning, Tongji University, Shanghai, China  
Course: *Diploma Project of B.Eng. in Urban and Rural Planning (studio, undergraduate level)*  
Instructor: Dr. Zhiqiang Wu
- 2010      **Graduate Teaching Assistant**, College of Design and Innovation, Tongji University, Shanghai, China  
Course: *Design Strategies (graduate level)*  
Instructor: Dr. Zhiqiang Wu

## PROFESSIONAL EXPERIENCE

- 2013–2016      **Project Manager and Urban Planner**, Shanghai Tongji Urban Planning and Design Institution, Shanghai, China  
Projects:
- *Master Plan, Regulatory Plan, and Urban Design of Qingdao New District*
  - *Urban Regeneration Plan of the Waterfront Area of Lanxi*
  - *Regeneration and Transportation Plan of Grand Canal Area of Cangzhou*
- Served as the project manager; coordinated multiple planning and design teams with local governments, communities, and developers; managed project procedures and schedules; led field study; led hearings and presentations; led scheme and proposal preparation.
- 2010–2013      **Urban Planner**, World Urban Sustainability Lab, Shanghai, China  
Projects:



- *Master Plan of Guangzhou Knowledge City*
- *Master Plan of 2014 Qingdao International Horticultural Exposition*

Participated in field study; led design team; prepared for hearings and presentations; led scheme and proposal preparation.

2009 **User Experience Designer**, Lenovo Research Institute, Beijing, China  
Project: Smart Television User Interface System Design  
 Led visual, interface, and user experience design; participated in conceptualization of product.

## SERVICES

### *Service to the Profession*

2023 **Program Committee Member**, 2023 International Association for China Planning Annual Conference.

2020–2023 **Standing Committee Member**, Transportation Research Board AFB80 Geospatial Data Acquisition Technologies Committee.

2020–2021 **Committee Member**, Conference on Sustainability and Emerging Transportation Technology 2020, August 31–September 2, 2020, Irvine, CA, USA

2020–2020 **Volunteer and Website Manager**, Transportation Research Board Standing Committee on Effects of Information and Communication Technologies on Travel Choices (ADB20).

2019–2021 **Associate Editor and Editorial Board Member**, *Nexus: Bloustein Student Journal*.

2018–2020 **Editorial Assistant and Translator**, *Journal of Planning Education and Research*.

2019–2020 **Founding Vice President**, Public Informatics Student Group of Bloustein School.

2019–2019 **Chair**, Housing Market Session of North American Regional Science Council Conference, Pittsburgh, PA

2018–2021 **Conference Organizer, Volunteer, and Panel Discussant**, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> Krueckeberg Doctoral Conference in Urban Studies, Urban Planning, and Public Policy.

### *University and Community Service*

2019–2020 **Graduate Student Representative**, School of Graduate Studies Executive Council, Rutgers University.

2019–2020 **Liaison**, Rutgers Office of Advanced Research Computing.

2018–2019 **Mentor of Incoming PhD Students**, Bloustein School of Planning and Public Policy, Rutgers, the State University of New Jersey.

2008 **Fundraising Volunteer for 2008 Sichuan Earthquake**, South China University of Technology.

### *Reviewing*

Journal	# of reviews
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<i>Journal of Planning Education and Research</i> (Top reviewer on Publons for <i>JPER</i> in 2019)	9
<i>Transportation</i>	1
<i>Transportation Research Part D: Transport and Environment</i>	14
<i>Transportation Research Record</i>	2
<i>Transportation Research Part E: Logistics and Transportation Review</i>	1
<i>Transportation Research Part C: Emerging Technologies</i>	1
<i>Case Studies on Transport Policy</i>	1
<i>Annals of the American Association of Geographers</i>	1
<i>Journal of Transport Geography</i>	3
<i>Technovation</i>	1
<i>Urban Planning International</i>	2
<i>Applied Spatial Analysis and Policy</i>	1
<i>Transportation Research Interdisciplinary Perspectives</i>	1
<i>Travel Behaviour and Society</i>	2
<i>Transportation Planning and Technology</i>	1
<i>Nexus: Bloustein Student Journal</i>	1
Conference	
The Second Bridging Transportation Researchers Conference 2020	2
Transportation Research Board Annual Meeting	5
Conference on Sustainability and Emerging Transportation Technology 2020	2
International Association for China Planning	1

## METHODS TRAINING & CERTIFICATES

### *Summer and Winter Schools*

Jan 2020	<b><u>Annual Winter School on Responsible Innovation and Social Studies of Emerging Technologies</u></b> , National Science Foundation (Award #1626153), Arizona State University, School for the Future of Innovation in Society (fully funded) Curriculum: Bibliometrics, Scenario Planning, Survey Design, Participatory Technology Assessment, Game Design.
Jun 2017	<b><u>Structural Equation Modeling</u></b> , University of Maryland School of Social Work. <u>Instructor</u> : Gregory Hancock, PhD.
Jun 2017	<b><u>Propensity Score Matching</u></b> , Epidemiology and Population Health Summer Institute at Columbia University, New York, NY. <u>Instructor</u> : Ryan Richard Ruff, PhD.
Jun 2017	<b><u>Digital Acquisition of Big Data</u></b> , Epidemiology and Population Health Summer Institute at Columbia University, New York, NY. <u>Instructor</u> : Michael Chary, MD, PhD.

*Scholarship of Epidemiology and Population Health Summer Institute at Columbia University (full tuition waiver, \$400).*

**Certificates**

- Jun 2020     **Getting Started Teaching Online**, Certificated by Center for Teaching Excellence, University of South Carolina  
Instructor: Dr. Gloria Washington
- May 2020     **Cartography**, Certificated by ESRI  
Instructor: Dr. Kenneth Field
- Jan 2019     **Introduction to Python**, ENACA.  
<http://www.enaca.cn/>
- Dec 2017     **R Programming**, Certificated by Johns Hopkins University.  
Instructors: Dr. Roger D. Peng, Dr. Jeff Leek, & Dr. Brian Caffo.  
<https://www.coursera.org/account/accomplishments/certificate/2U8ZJBD3YMJ2>

**SOFTWARE AND METHODOLOGICAL SKILLS**

**Software**

- Geographic Information Analytics:   ArcGIS, QGIS, ArcGIS Pro, ArcGIS Online
- Statistics:                               R (RStudio), Python (Jupyter), Stata, SPSS
- Survey Design:                           Qualtrics
- Qualitative Research:                 NVivo
- Computer-Aided Design, 3D  
Modeling:                               AutoCAD, Rhinoceros, Alias, 3ds Max, Keyshot, Sketchup
- Graphic Design:                         Adobe InDesign, Illustrator, Photoshop, Premiere

**Research Methods**

- Statistical Modeling:                 machine learning, time-series clustering, geographically-weighted regression, time series analysis, causal inference, stated preference model, factor analysis, structural equation modeling, spatial modeling
- Transportation Modeling:             Citilabs Cube
- Survey:                                   Survey research, sampling (clustering and stratification), questionnaire design
- Geospatial Analysis:                 Network analyst, geographically weighted regression, location and allocation analysis
- Qualitative Research:                 Interview, focus group, documents and material culture, use of images, biographical method, observation, ethnography, grounded theory building, participatory action
- Natural Language Processing:         Lexical analysis, sentiment analysis, semantic analysis