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EDUCATION

Postdoc	ORISE-USACE Coastal and Hydraulics Laboratory	09/2021-07/2022
Ph.D.	Oregon State University, Transportation Engineering	09/2016-09/2021
M.S.	Oregon State University, Transportation Engineering	09/2014-07/2017
B.S.	Chang'an University, Transportation Engineering	09/2009-07/2013

PUBLICATIONS

1. Qianli Qiu, Michael K. Lindell, Elissa Yeates, Jessica Lyons, **Chen Chen** (2025). Local Emergency Management Agencies' Hurricane Evacuation Decision Making and Population Warning. *International Journal of Disaster Risk Reduction*. In Press. [\[Link\]](#)
2. Fitch-Polse, Dillon T.; **Chen, Chen**; Wong, Stephen D. (2024). "Bicycles and Micromobility for Disaster Response and Recovery". *Transportation Policy*. 149, 259-263. [\[Link\]](#)
3. **Chen Chen**, Charles Koll, Haizhong Wang, Michael K. Lindell. (2023). "An Interdisciplinary Agent-based Evacuation Model: Integrating Natural Environment, Built environment, and Social System for Community Preparedness and Resilience." *Natural Hazards and Earth System Sciences*. 23, 733–749. [\[Link\]](#)
4. Ghina Tahesh, Harith Abdulsattara, Maya Abou Zeid, **Chen Chen**. (2023). "Risk perception and travel behavior under short-lead evacuation: Post disaster analysis of 2020 Beirut Port Explosion." *International Journal of Disaster Risk Reduction*. Vol. 89, 15, 103603 DOI: <https://doi.org/10.1016/j.ijdr.2023.103603> [\[Link\]](#)
5. Charles Koll, Michael K. Lindell, **Chen Chen**, Haizhong Wang. (2023). "Emergency Warning Dissemination in Multiplex Social Network." *Journal of Artificial Societies and Social Simulation* 26 (1) 7. DOI: 10.18564/jasss.4946. [\[Link\]](#)
6. Haizhong Wang, Michael K. Lindell, M.R.K. Siam, **Chen Chen**, Rahmawati Husein. (2022). "Local Residents' Immediate Responses to the 2018 Indonesia Earthquake and Tsunami." *Earthquake Spectra*. DOI: 10.1177/87552930221105104. [\[Link\]](#)
7. **Chen Chen**, Haizhong Wang, Michael Lindell, Meen Chel Jung, M.R.K. Siam. (2022). "Tsunami Preparedness and Resilience: Evacuation Logistics and Time Estimations." *Transportation Part D*. 109 (2022), 103324. [\[Link\]](#)
8. **Chen Chen**, Alireza Mostafizi, Haizhong Wang, Dan Cox, and Cadell Chand. (2022). "An Integrative Agent-based Vertical Evacuation Risk Assessment for Near-Field Tsunami Hazards," *Risk Analysis*, 00, 1– 15. [\[Link\]](#)
9. **Chen Chen**, Alireza Mostafizi, Haizhong Wang, Dan Cox, and Lori Cramer. (2022). "Evacuation Behaviors in Tsunami Drills" *Natural Hazards*. DOI: 10.1007/s11069-022-05208-y [\[Link\]](#)
10. **Chen Chen**, Michael K. Lindell, Haizhong Wang. (2021). "Tsunami Preparedness and Resilience in the Cascadia Subduction Zone: A Multistage Model of Expected Evacuation Decisions and Mode Choice," *International Journal of Disaster Risk Reduction*. Vol. 59, 102244. [\[Link\]](#)
11. Mohammad Rayeedul Kalam Siam, Haizhong Wang, Michael K Lindell, **Chen Chen**, Eleni I. Vlahogianni, Kay W. Axhausen. (2022). "An Interdisciplinary Agent-based Multimodal Wildfire Evacuation Model: Critical Decisions and Life Safety" *Transportation Part D*. Vol. 103, 103147. [\[Link\]](#)
12. Wenqiang Shi, Haizhong Wang, **Chen Chen**, Zhaojun Kong. (2021). "Evolutionary Game Analysis of Decision-making Dynamics of Local Governments and Residents," *International Journal of Disaster Risk Reduction*, Vol. 53, 101991. [\[Link\]](#)
13. **Chen Chen**, Alexandra Buylova, Cadell Yatish Chand, Haizhong Wang, Lori A. Cramer, Daniel T. Cox. (2020).

- “Household intent evacuation transportation behavior to earthquake and tsunami in a Cascadia subduction zone city,” *Transportation Research Record*, Vol. 2674, issue 7, page 99-114. [\[Link\]](#)
14. Alexandra Buylova, **Chen Chen**, Lori Cramer, Haizhong Wang, Daniel T. Cox. (2020). “Household risk perceptions and evacuation intentions in earthquake and tsunami in a Cascadia Subduction Zone,” *International Journal of Disaster Risk Reduction*, Vol. 44, 101442. [\[link\]](#)
 15. **Chen Chen**, Krista Nordback, Josh Roll, Haizhong Wang. (2020). “Using bicycle app data to develop Safety Performance Functions (SPFs) for bicyclists at intersections: A generic framework,” *Transportation Research Part A*, vol. 132, page 1034–1052. [\[Link\]](#)
 16. Yi Wang, Christopher M. Monsere, **Chen Chen**, Haizhong Wang. (2018). “Development of a Crash Risk-Scoring Tool for Pedestrian and Bicycle Projects in Oregon,” *Transportation Research Record: Journal of the Transportation Research Record*, vol. 2672, issue 32, page 30-39. [\[Link\]](#)
 17. **Chen Chen**, Jason C Anderson, Haizhong Wang, Yin Hai Wang, Rachel Vogt, Salvador Hernandez. (2017). “How Bicycle Level of Traffic Stress Correlate with Reported Cyclist Accidents Injury Severities: A Geospatial and Mixed Logit Analysis,” *Accident Analysis & Prevention*, vol. 108, page 234–244. [\[Link\]](#)
 18. Haizhong Wang, Matthew Palm, **Chen Chen**, Rachel Vogt, Yiyi Wang. (2016). “Does bicycle network level of traffic stress (LTS) explain bicycle travel behavior? Mixed results from an Oregon case study,” *Journal of Transport Geography*, vol. 57, page 8-18. [\[Link\]](#)
 19. **Chen Chen**, Robert L. Bertini, Haizhong Wang, Lance Knox (2017). Spatial Analysis of Roadside Devices for Potential Vehicle to Infrastructure Adaptation: an Oregon Case Study. *96th Transportation Research Board Annual Meeting Compendium, paper 17-01219, Accession Number: 01628101*. [\[Link\]](#)
 20. **Chen Chen**, Cadell Chand, Haizhong Wang, David Hurwitz, Nathan Blez (2021). Micromobility Promises and Challenges in the Pacific Northwest. *Pactrans 2019-M-OSU-3, University of Washington (Report)* [\[Link\]](#)
 21. Christopher M. Monsere, Haizhong Wang, Yi Wang, **Chen Chen** (2017). Risk Factors for Pedestrian and Bicycle Crashes. (2017). SPR #779. *Oregon Department of Transportation. Salem, OR. FHWA-OR-RD-17-13. (Report)*[\[Link\]](#)
 22. Haizhong Wang, Yin Hai Wang, Michael B. Lowry, **Chen Chen**, Ziyuan Pu (2017). Bicycle Safety Analysis – Crowdsourcing Bicycle Travel Data to Estimate Risk Exposure and Create Safety Performance Functions. *PacTrans, 2015-M-OSU-63, Seattle, WA. (Report)* [\[Link\]](#)

Fundings and Projects

2024-2026	(PI) NSF #2242719, \$367,706.00, Place-Based, Human-Centered Networks to Enhance Community Resilience and Equity [Link]
2025-2025	(Senior Personnel) NSF # 2525968 \$79,999 RAPID: Household Responses to the Los Angeles Wildfire Emergency
2024-2025	(Co-PI) CEAT OSU #EN-24-RS-081, \$25,000, Wildfire simulation to assess the impact of burn severity on post-fire hydrology
2023-2025	(PI) NSF #2345642, \$25,000, RAPID/Collaborative Research: Integrated Sociotechnical Investigations of the Compounding Impacts of Maui Wildfires fueled by Hurricane Dora [Link]
2023-2026	(PI) DOD #W912HZ23C0048, \$510,501, Understanding and Modeling the Informal Warning System to Enhance Community Resilience [Link]
2023-2028	(Senior Personnel) DE-FOA-0002866, \$3,736,205, Industrial Assessment Centers at Oklahoma State University – Great Plans Centers of Excellence [Link]
2021-2022	(Postdoc Researcher) DOD/DOE #DE-SC0014664, Compound Hazard Forecasting and Coastal Societal Resilience Models, at US Army Corps of Engineers - Coastal and Hydraulics Laboratory
2018-2021	(Research Assistant) NSF #1826407, Collaborative Research: Understanding Evacuation Behavior for Rapid Onset Disasters such as Flash Floods and Tsunamis in the Cascadia Subduction Zone
2017-2020	(Research Assistant) NSF #1563618, An Integrated Social Science and Agent-based Modeling

2016-2018	Approach to Improve Life Safety from Near-field Tsunami Hazards (Research Assistant) UTC DTRT-13-G-UTC40, Bicycle Safety Analysis – Crowdsourcing Bicycle Travel Data to Estimate Risk Exposure and Create Safety Performance Functions
2016-2017	(Research Assistant) Connected Vehicle: V2I Deployment Readiness Spatial Analysis.
2016-2017	(Research Assistant) ODOT SPR 779, Risk Factors for Pedestrian and Bicycle Crashes
2015-2016	(Research Assistant) Establish the Characteristics of Resilient Lifeline Systems (ASCE)

TEACHING EXPERIENCE

2022-2024	Oklahoma State University, Stillwater, Oklahoma FEMP 3103 Introduction to Emergency Management FEMP 5810 Simulation for Interdisciplinary Research FEMP 5653 Hazards, vulnerability, and Risk Analysis FEMP 5243 Mitigation
2017-2022	Oregon State University, Corvallis, Oregon ENGR 211 Statics CE 501 Introduction to Transportation Engineering Research Experience for Undergraduate program

PRESENTATIONS

1. **Chen Chen**, Katherine Idziorek, Stephen Wong. (2024) Using Micromobility and Resilience Hub in Emergency Management. 2024 Oklahoma Transportation Symposium. Oklahoma City, OK.
2. **Chen Chen** (2024) Examine Resilience Hub and Micromobility for Dynamic Disaster Recovery: An Agent-Based Model. 49th Natural Hazards Workshop. Boulder, Colorado.
3. Qianli Qiu, **Chen Chen**, Michael K. Lindell. (2024) Informal Hurricane Warning Channels: Perceptions and Preferences of LEMAs and Householders. 49th Natural Hazards Workshop. Boulder, Colorado.
4. **Chen Chen**, Katherine Idziorek, Stephen Wong. (2024). Place-Based, Human-Centered Networks to Enhance Community Resilience and Equity. 2024 NIST-NSF Disaster Resilience Research Symposium.
5. **Chen Chen**. (2024). Engineers are wrong: where to build community shelters. University of North Texas. Invited Presentation. Feb. 14th 2024.
6. **Chen Chen**. (2023). An Interdisciplinary Agent-based Evacuation Modeling (ABM) Framework: Convergence of Natural Environment, Built Environment, and Social System for Risk Assessment and Improving Life Safety. 2023 American Association of Geographers. Denver, CO. March 23-27th.
7. Qian Li, **Chen Chen**, Charles Koll, Haizhong Wang, Michael K. Lindell. (2023) An Interdisciplinary Agent-based Evacuation Model: Integrating Natural Environment, Built environment, and Social System for Community Preparedness and Resilience. Disaster PRIMR 2023: Promoting Cultures of Preparedness at Prairie View A&M University. March, 2023. Prairie View, Texas.
8. Elissa Yeates, **Chen Chen**, Wanyun Shao, Michael Lindell, Ce'Ne Harris, Evan Cass. (2022) Hurricane Risk Information Diffusion Model: Theoretical Formulation and Evidence. 2022 International Conference on Coastal Engineering. Dec. 2022 Sydney, Australia.
9. Haley Murphy, **Chen Chen**, Tony McAleavy, Xiangyu Li, Luke Urbane, Vec Wier. (2022) Innovative Research Informs Decision Making in Emergency Management. 2022 Innovation Summit for Preparedness & Resilience Conference. Stillwater, Oklahoma.
10. **Chen Chen**, Krista Nordback, Josh Roll, Haizhong Wang. (2022) Using bicycle app data to develop Safety Performance Functions (SPFs) for bicyclists at intersections: A generic framework. 2022 Oklahoma Transportation Summer Symposium. Oklahoma City, Oklahoma, USA
11. **Chen Chen**, Mohammad Rayeedul Kalam Siam, Haizhong Wang, Michael K Lindell, Eleni I. Vlahogianni, Kay W. Axhausen. (2022) An Interdisciplinary Agent-based Multimodal Wildfire Evacuation Model: Critical Decisions and

Life Safety. 2022 Oklahoma Transportation Summer Symposium. Oklahoma City, Oklahoma, USA.

12. **Chen Chen**, Cadell Chand, Haizhong Wang, David Hurwitz, Nathan Belz. (2022). Micromobility Promises and Challenges in the Pacific Northwest. ICTD Conference June 2nd, 2022. Seattle, Washington, USA.
13. **Chen Chen**. (2022) Using An Interdisciplinary Approach to Inform Community Preparedness and Resilience in the Cascadia Subduction Zone. Accelerating Global Science in Tsunami Hazard and Risk Analysis. May 4th. WG6 Meeting May 2022.
14. Michael K. Lindell, **Chen Chen**, Michael J. Shaw. (2022) Modeling Hurricane Evacuation Warnings: Effects of Message Content and Timing on Risk Perception and Response. 2022 National Hurricane Conference, Orlando, FL.
15. **Chen Chen**, Charles Koll, Haizhong Wang, Michael K. Lindell. (2022) An Interdisciplinary Agent-based Evacuation Model: Integrating Natural Environment, Built environment, and Social System for Community Preparedness and Resilience. 101th Transportation Research Board Annual Meeting. Washington D.C.
16. **Chen Chen**, Alireza Mostafizi, Haizhong Wang, Daniel T. Cox. (2020) An Interdisciplinary Agent-based Tsunami Risk Assessment Model: Novel Approximation of FN Diagram. 99th Transportation Research Board Annual Meeting. Washington D.C.
17. **Chen Chen**, Cadell Chand, Haizhong Wang, Alexandra Buylova, Lori A. Cramer, Daniel T. Cox. (2020) Household Intended Evacuation Transportation Behavior to Earthquake and Tsunami Hazard in a Cascadia Subduction Zone City. 99th Transportation Research Board Annual Meeting. Washington D.C.
18. **Chen Chen**, Alireza Mostafizi, Haizhong Wang, Daniel T. Cox. (2019) Do Vertical Shelters Really Save Us in a Nearfield Tsunami? Tsunami Risk Assessment by FN-Curve. 44th Annual Natural Hazards Research and Applications Workshop. Broomfield, Colorado.
19. **Chen Chen**, Haizhong Wang. (2017) Crowdsourcing Data-Driven Development of Bicycle Safety Performance Functions (SPFs). International Cycling Safety Conference. UC-Davis, CA.
20. **Chen Chen**, Haizhong Wang, Robert L. Bertini, Lance Knox. (2017) Spatial Analysis of Roadside Devices for Potential Vehicle to Infrastructure Adaptation: an Oregon Case Study. 96th Transportation Research Board Annual Meeting. Washington D.C.
21. **Chen Chen**, Haizhong Wang. (2016) Create Safety Performance Functions (SPF) for the Pacific Northwest States. PacTrans Region 10 Annual Conference. Seattle, WA.
22. **Chen Chen**, Yi Wang, Christopher M. Monsere, Haizhong Wang. (2016) Risk Factors for Pedestrian and Bicycle Crashes. PacTrans Region 10 Annual Conference. Seattle, WA.

PROFESSIONAL SOCIETIES & SERVICES

2024	TRB AMR20 Committee Member, Disaster Response, Emergency Evacuations, and Business Continuity
2023	TRB Transportation Resilience 2023, program planning committee
2022	CICTP conference associate editor, China Oversea Transportation Association
2022	TRB AMR20 committee Young Member council, chair assistant
2015-2020	Institute of Transportation Engineers
2015-2020	American Society of Civil Engineers

PROFESSIONAL EXPERIENCE

2021	Community Resilience Expert Collaborator in Hazadapt, Inc. (Corvallis, OR)
2016-2018	Transportation Analyst, ODOT Transportation Planning Analysis Unit (Salem, OR) Highway Safety Manual SPF calibration Project. Oregon Highway K30 Seasonal Factor Project. Analysis Procedures Manual (APM) Revision
2013	Xi'an Metro Internship with Different Positions in a Station. (Xi'an, China) Organized passenger flow. Operated ticket devices, other station routines.
2012	Guizhou Transportation Planning Survey Design & Academe CO., LTD (Xi'an, China)

Worked as a technician. Used AutoCAD to draw highway, tunnel, bridges, and transportation station. Counted traffic volume.

AWARDS

- 2024 CEAT STAR award, nominated by Jenn Lane from CEAT Research Office
- 2023 Blue Ribbon Committee Award TRB YMC-S&R Sustainability & Resilience committee
- 2023 COTA CICTP Conference Best Area Editor
- 2019 (1st Place) Student Research Poster Competition (Pactrans Region 10)
- 2019 (Finalist) 26th EVS International Collegiate Student Safety Technology Design Competition (NHTSA)
- 2018 (Fellowship) Richard and Lilo Smith Graduate fellow (OSU)
- 2017 (Best Poster Award) International Cycling Safety Conference (ICSC)