

Curriculum Vitae **Hung-Lung Wei, Ph.D.**

John Jay College of Criminal Justice, CUNY
Department of Security, Fire, and Emergency Management
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Education

- 8/2012 – 8/2016 **Ph.D. in Urban & Regional Science**
Department of Landscape Architecture & Urban Planning, Texas A&M University, College Station, TX
Dissertation Title: “Washington Households’ Expected Responses to the Volcanic Threat of Mt. Rainier”
- 1/2009 – 5/2012 **M.A. in Environmental Studies** with concentration in Environmental Planning & Management, University of Illinois at Springfield, IL
Thesis Title: “An Environmental Justice Analysis: Examining the Disadvantaged Population Distributions near the Superfund Site, Toxic Release Inventory Sites, and Major Air Pollutant Facilities in Cook County, Illinois”
- 10/1992 – 6/1996 **B.E. in Water Resources and Environmental Engineering**
Tamkang University, New Taipei City, Taiwan

Academic Appointments

- 8/2023 – Present **Associate Professor**, Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, CUNY
- 8/2016 – 8/2023 **Assistant Professor**, Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, CUNY
Courses Taught:
- ESA 101: Introduction to Emergency Management
 - ESA 355: Geographic Information Systems for Emergency Services
 - FIS 101: Introduction to Fire Science
 - FIS 319: Hazard Identification and Mitigation
 - FIS 401: Seminar in Fire Protection Problems
 - PMT 720: Geographic Information Systems for Public Safety and Emergency Management
 - PMT 760: Emergency Management: Mitigation and Recovery
 - PMT 763: Emergency Management: Preparedness
 - SEC 715: Analytical Methods in Protection Management
- 1/2014 – 5/2016 **Instructor**, Department of Landscape Architecture and Urban Planning, Texas A&M University
Courses Taught:
- URPN 310: Urban Analytical Methods (Spring & Fall, 2014-2015)

9/2012 – 8/2016 **Research Assistant**, Hazard Reduction & Recovery Center,
Texas A&M University

Research Projects:

- Analyzed survey data of Hurricanes Rita and Ike for publication
- Conducted mail survey and analyzed data for a hurricane evacuation study in Willacy, Cameron, and Hidalgo Counties, Texas
- Worked on a collaborative project (TAMU/USTC) to compare households' risk perceptions and expected responses to the influenza epidemic (H7N9 avian flu) in Anhui, China and the seasonal flu in Texas
- Collected and analyzed the psychology student samples for a water contamination emergency project
- Examined psychology students' perceptions and immediate reactions to tornado warning polygons
- Compared households' responses to the tsunami threat in Hitachi, Japan and Christchurch, New Zealand
- Assessed households' hazard adjustments, risk perceptions, evacuation, and information sources across multiple volcano risk areas near Mt. Rainier in Pierce County, Washington
- Developed an uncertainty cone that conveys uncertainty about forecasts of a volcano's probability of eruption (or individual hazards such as lahars or pyroclastic flows) over time; sustain partnerships with the USGS Volcano Hazards Program, FEMA, emergency managers, planners, and residents near Kilauea, Hawaii and Long Valley, California

9/2012 – 5/2014 **Teaching Assistant**, Department of Landscape Architecture and Urban
Planning, Texas A&M University

Courses Taught:

- URPN 310: Urban Analytical Methods, Fall 2012
(Instructor: Dr. Michael Lindell)
- URPN 460: Sustainable Communities, Fall 2012 and Spring 2013
(Instructor: Dr. George Rogers)
- PLAN 649: Organizational and Community Response to Crises and Disasters,
Fall 2013 (Instructor: Dr. Michael Lindell)
- PLAN 650: Disaster Response Planning, Spring 2014
(Instructor: Dr. Michael Lindell)

8/2009 – 5/2011 **Graduate Assistant**, Department of Environmental Studies, University of
Illinois at Springfield (UIS)

Duties:

- Assisted in tracking and processing recruitment materials
- Represented the Department of Environmental Studies at recruiting events
- Archived all minutes for Executive Committee meetings
- Maintained and revised department database designed to track student progress and to check course scheduling and faculty loads for creation of a two-year rotation of courses
- Assisted department faculty with their core courses, research, and other special projects
- Responded to inquiries from the department about department databases

8/2010 – 12/2010 **GIS Volunteer Laboratory Assistant**, Department of Environmental Studies, University of Illinois at Springfield

Duties:

- Assisted students with their GIS laboratory assignments for the graduate course of Fundamentals of Geographic Information Systems
- Assisted the Director of GIS laboratory at UIS to collect GIS data and conducted GIS projects

Professional Appointments

5/2000 – 5/2007 **Project Manager**, Yochun Environmental Engineering CO, L.T.D

Duties:

- Performed risk assessment of waste incineration versus landfilling
- Researched endangered species at Kenting National Park
- Conducted projects of airport sound mitigation for Ming-Yi and Chung-San middle schools and Zen-Ai and Fo-Kon elementary schools in Kaohsiung, Taiwan
- Performed wastewater sampling audits. Sampled and analyzed the wastewater at the Lian Hwa Foods wastewater treatment plant and other wastewater treatment plants to ensure discharges were in compliance with national water quality standards
- Coordinated contractor activities, organized data, and conducted formal assessments of projects

8/1998 – 4/2000 **Environmental Engineer**, Tomodati Environmental Consultant, L.T.D

Duties:

- Water quality assurance coordinator
- Researched the disposal practices for solid waste
- Engineered noise pollution control methods
- Researched and analyzed environmental regulatory compliance concerns

Technical Skills

- Operating Systems: Windows, Mac
- Software: Flash, Photoshop, Microsoft Office 2010 (Word, Excel, PowerPoint, Publisher, Access), AutoCAD 2003, SPSS 22, STATA 13, ArcGIS 10.6

Academic and Professional Awards

- Jesus H. Hinojosa Endowed Urban Planning Scholarship (2015), Department of Landscape Architecture & Urban Planning, Texas A&M University
- Graduate Assistantship awarded by Texas A&M University (08/2012 – 05/2016)
- Graduate Assistantship awarded by University of Illinois at Springfield (08/2009 – 05/2011)
- Received an Outstanding Team Work Award at Yochun Environmental Engineering CO, L.T.D, 2002
- Received an Excellent Project Manager Award at Yochun Environmental Engineering CO, L.T.D, 2005

Certificates

- 2014 Teaching Assistant Institute Certificate, Center for Teaching Excellence, Texas A&M University
- 2016 Environmental Hazard Management, Texas A&M University

Research Grants

- 2022 – 2023 **Principal Investigator** — *New York City Residents' Exposures and Responses to COVID-19 Crisis*. PSC-CUNY Research Award Program Cycle 53. (\$5,958, funded).
- 2018 – 2019 **Principal Investigator** — *A Behavioral Study: NYC Residents' Expected Responses to Floods and Hurricanes*. PSC-CUNY Research Award Program Cycle 49. Grant ID: 93725 (\$5,996, funded).
- 2016 – 2017 **Principal Investigator** — *Examining Residents' Exposures and Responses to Multi-Hazards in New York City*. 2017 CUNY Interdisciplinary Research Grant Program. (\$39,112, unfunded).

Peer-Reviewed Journal Articles

- Wei, H.-L.** (2022). "Exploring Household's Preparedness for Volcanic Eruptions of Kilauea and Mauna Loa, Hawaii". *Natural Hazards Review*, 23(4): 05022005. DOI: 10.1061/(ASCE)NH.1527-6996.0000573. [IF: **3.343** (2020)]
- Wei, H.-L.**, Lindell, M.K., Prater, C.S., Wei, J., & Wang, F. (2021). Texas Households' Expected Responses to Seasonal Influenza. *Journal of Risk Research*, 24, 1405-1425. [Google Scholar: **2** citations; IF: **2.583** (2020)]
- Shapiro, L.R., Maras, M.-H., Velotti, L., Pickman, S., **Wei, H.-L.**, & Till, R. (2018). Trojan Horse Risks in the Maritime Transportation Systems Sector. *Journal of Transportation Security*, 11, 65-83. [Google Scholar: **15** citations; IF: **1.095** (2019)]
- Wei, H.-L.**, Lindell, M.K., Prater, C.S., Wei, J., Wang, F., & Ge, Y. (2018). Perceived Stakeholder Characteristics and Protective Action for Influenza Emergencies: A Comparative Study of Respondents in the United States and China. *International Journal of Mass Emergencies and Disasters*, 36, 52-70. [Google Scholar: **18** citations; IF: **1.778** (2019)]
- Wang, F., Wei, J., Huang, S.-K., Lindell, M.K., Ge, Y., & **Wei, H.-L.** (2018). Public Reactions to the 2013 Chinese H7N9 Influenza Outbreak: Perceptions of Risk, Stakeholders, and Protective Actions. *Journal of Risk Research*, 21, 809-833. [Google Scholar: **34** citations; IF: **2.583** (2020)]
- Wei, H.-L.**, Wu, H.-C., Lindell, M.K., Prater, C.S., Shiroshita, H., Johnston, D., & Becker, J.S. (2017). Assessment of Households' Responses to the Tsunami Threat: A Comparative Study of Japan and New Zealand. *International Journal of Disaster Risk Reduction*, 25, 274-282. [Google Scholar: **26** citations; IF: **4.320** (2020)]
- Wei, H.-L.**, & Lindell, M.K. (2017). Washington Households' Expected Responses to Lahar Threat from Mt. Rainier. *International Journal of Disaster Risk Reduction*, 22, 77-94. [Google Scholar: **38** citations; IF: **4.320** (2020)]

- Huang, S.-K., Wu, H.-C., Lindell, M.K., **Wei, H.-L.**, & Samuelson, C.D. (2017). Perceptions, Behavioral Expectation, and Implementation Timing for Response Actions in a Hurricane Emergency. *Natural Hazards*, 88, 533-558. [Google Scholar: **20** citations; IF: **3.656** (2020)]
- Lindell, M.K., Mumpower, J., Huang, S.-K., Wu, H.-C., Samuelson, C.D., & **Wei, H.-L.** (2017). Perceptions of Protective Actions for a Water Contamination Emergency. *Journal of Risk Research*, 20, 887-908. [Google Scholar: **27** citations; IF: **2.583** (2020)]
- Lindell, M.K., Huang, S.-K., **Wei, H.-L.**, & Samuelson, C.D. (2016). Perceptions and Expected Immediate Reactions to Tornado Warning Polygons. *Natural Hazards*, 80, 683-707. [Google Scholar: **71** citations; IF: **3.656** (2020)]
- Wei, H.-L.**, Lindell, M.K., & Prater, C.S. (2014). “Certain Death” from Storm Surge: A Comparative Study of Household Responses to Warnings about Hurricanes Rita and Ike. *Weather, Climate and Society*, 6, 425-433. [Google Scholar: **39** citations; IF: **1.958** (2019)]

Encyclopedia Articles

- Wei, H.-L.** (2019). Geographic Information Systems (GIS) Applications in Emergency Management. In L.R. Shapiro and M-H. Maras (eds.), *Encyclopedia of Security and Emergency Management*. Washington, DC: Springer Publishing.
- Wei, H.-L.** (2019). Natural Disasters: Volcanic Eruptions. In L.R. Shapiro and M-H. Maras (eds.), *Encyclopedia of Security and Emergency Management*. Washington, DC: Springer Publishing.

Professional Journal/ Magazine

- Maras, M.-H., Shapiro, L.R., Velotti, L., Pickman, S., **Wei, H.-L.**, & Till, R. (2018). On a Sea of Risk. *Security Management*, 62, 62-70.

Technical Report

- Lindell, M. K., Ge, Y., Huang, S.-K., Prater, C. S., Wu, H.-C., and **Wei, H.-L.** (2013). *Behavioral Study, Valley Hurricane Evacuation Study, Willacy, Cameron, and Hidalgo Counties, Texas*. Hazard Reduction & Recovery Center, Texas A&M University.

Publications in Progress

- Wei, H.-L.** “Assessment of Residents’ Hazard Adjustments in New York City” submitted to *International Journal of Disaster Risk Reduction*. (Under 1st revision)
- Wei, H.-L.** “NYC Residents’ Perceived Stakeholder Characteristics and Protective Actions for COVID-19 Emergencies” for submission to *Natural Hazards*. (In progress)
- Wei, H.-L.**, Davis, M., Johnston, D., Becker, J.S., Leonard, G., & Coomer, M. “A Comparison of 2006 and 2014 Washington Households’ Expected Responses to Lahar Threat from Mt. Rainier” for submission to *Environment and Behavior*. (In progress)
- Wei, H.-L.**, & Lin, Y.-S. “Examining the Disadvantaged Population Distributions near the Superfund Site, Toxic Release Inventory Sites, and Major Air Pollutant Facilities in Cook County, Illinois” for submission to *Environmental Health Perspectives*. (In progress)
- Wei, H.-L.**, & Wei, C.-S. “A Transportation Risk Level Alert System towards the Reduction of NYC Vehicle” for submission to *Analytic Methods in Accident Research*. (In progress)

Ge, Y., **Wei, H.-L.**, Huang, S.-K., & Wu, H.-C. “Household’s Decision Making for Hurricane Preparedness in Rio Grande Valley, Texas” for submission to *Natural Hazards Review*. (In progress)

Huang, S.-K., Ge, Y., **Wei, H.-L.**, & Wu, H.-C. “Logistics of Hurricane Evacuation in Rio Grande Valley, Texas” for submission to *Environment and Behavior*. (In progress)

Panel Discussion

Maras, M.-H., Shapiro, L., Till, R., **Wei, H.-L.**, Velotti, L., and Pickman, S. 2016. *Dealing with Trojan Horses in the Maritime Sector*. SUNY Maritime College Maritime Security Conference (November 10, 2016).

Peer-Reviewed Conference Presentations

Wei, H.-L. 2022. “Assessment of Residents’ Hazard Adjustments in New York City”. Presented at the 47th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Wei, H.-L. 2020. “Exploring Household Preparedness for Volcanic Eruptions of Kīlauea and Mauna Loa, Hawaii”. Presented at the 45th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Wei, H.-L., Lindell, M.K., Prater, C.S., Wei, J., Wang, F., Ge, Y., & Huang, S.-K. 2018. “Perceived Stakeholder Characteristics and Protective Action for Influenza Emergencies: A Comparative Study of Respondents in the United States and China”. Presented at the 43rd Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Wei, H.-L., Wu, H.-C., Lindell, M.K., Prater, C.S., Shiroshita, H., Johnston, D., & Becker, J.S. 2017. “Assessment of Households’ Responses to the Tsunami Threat: A Comparative Study of Japan and New Zealand”. Presented at the 42nd Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Huang, S.-K., Lindell, M. K., Prater, C. S., Samuelson, C., and **Wei, H.-L.** 2016. “Perceptions and Expected Implementation of Protective Action Recommendations in Response to a Hurricane Emergency”. Presented at the 41st Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Wu, T., Lindell, M. K., Prater, C. S., **Wei, H.-L.**, Huang, S.-K., Jon, I., and Shiroshita, H. 2016. “Household Tsunami Risk Perception after the 2011 Great East Japan Earthquake”. Presented at the 41st Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.

Huang, S.-K., Jon, I., Lindell, M. K., Prater, C. S., Wu, H.-C, House, D., Samuelson, C., and **Wei, H.-L.** 2016. “Tornado Risk Perceptions in Response to Warning Polygons”. Presented at International Research Committee on Disasters Researchers Meeting, July 13-14, Broomfield, Colorado.

Wei, H.-L., Lindell, M. K., Prater, C. S., and Huang, S.-K. 2015. “Preliminary Analyses for Households’ Responses to the Threat of Mt. Rainier Volcano in Pierce County, Washington”. Presented at International Research Committee on Disasters Researchers Meeting, July 22-23, Broomfield, Colorado.

- Wei, H.-L.**, Lindell, M. K., Prater, C. S., Wei, J., and Wang, F. 2015. “Perceived Stakeholder Relationships and Risk Communication for Pandemic Influenza: A Comparative Study of Texas and Anhui, China”. Presented at the 40th Annual Natural Hazards Research and Application Workshop, July 19-21, Broomfield, Colorado.
- Huang, S.-K., Lindell, M. K., Prater, C. S. **Wei, H.-L.**, and Samuelson, C. 2015. “Perceptions and Immediate Reactions to Tornado Warning Polygons”. Presented at the 40th Annual Natural Hazards Research and Application Workshop, July 19-21, Broomfield, Colorado.
- Huang, S.-K., Lindell, M. K., Mumpower, J., Wu, T., Samuelson, C., and **Wei, H.-L.** 2015. “Perceptions of Protective Actions and Response to a Water Contamination Emergency”. Presented at International Research Committee on Disasters Researchers Meeting, July 22-23, Broomfield, Colorado.
- Wei, H.-L.**, Wang, F., Wei, J., Lindell, M. K., and Prater, C. S. 2014. “Examining Household’s Responses to H7N9 Avian Flu in Anhui Province, China”. Presented at the 39th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.
- Wei, H.-L.**, Lindell, M. K., and Prater, C. S. 2013. “Certain Death from Storm Surge: A Comparative Study of Hurricanes Rita and Ike”. Presented at the 38th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.
- Wei, H.-L.**, and Lin, Y-S. 2012. “An Environmental Justice Analysis: Examining the Disadvantaged Population Distributions near the Superfund Site, Toxic Release Inventory Sites, and Major Air Pollutant Facilities in Cook County, Illinois”. Presented at the 37th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.
- Lin, Y-S., and **Wei, H.-L.** 2011. “An Environmental Justice Analysis of Dupage County, Illinois, Using Geographic Information Systems”. Presented at the 36th Annual Natural Hazards Research and Application Workshop, Broomfield, Colorado.
- Wei, H.-L.**, and Lin, Y-S. 2011. “The Application of GIS: An Environmental Justice Analysis in DuPage County, Illinois.” Presented at the Illinois GIS Association 2011 Spring Conference, Champaign, Illinois.
- Killam, L., **Wei, H.-L.**, and Ruez, D. R. 2010. “Evaluation of Inquiries about the UIS Environmental Studies Online Master’s Degree Program.” Presented at the Illinois State Academy of Science 102nd Annual Meeting, Millikin University, Decatur, Illinois.

College Services

- Committee on Honors, Prizes, and Awards (Fall 2020 – Spring 2021)
- Member of College Council (Fall 2017 – Spring 2020)
- Senator of Faculty Senate (Fall 2017 – Spring 2020)
- Coordinator of University Partnership Program between John Jay College and NYC Office of Emergency Management (Fall 2016 – Present)

Departmental Services

- Major Coordinator, BS in Security Management (Spring 2022 – Present)
- Major Coordinator, BS in Emergency Services Administration (Fall 2022 – Present)

- Department Committee on Student Grade Appeals (Fall 2018 – Spring 2022)
- Department Curriculum Committee (Fall 2020 – Spring 2022)
- Department Curriculum Committee (Fall 2017 – Spring 2018)
- Attended a recruiting event at the 2020 New York State Emergency Management Association (NYSEMA) Conference in Syracuse, NY (Feb 11-13, 2020)
- Attended a recruiting event at the 2017 International Association of Emergency Managers Conference in Long Beach, CA (Nov 13-15, 2017)
- Developed two new undergraduate course proposals (ESA 225 and ESA 355) and approved by the Undergraduate Curriculum and Academic Standards Committee and College Council (Fall 2016 – Spring 2017)
- Developed two new online graduate courses (PMT 720 and PMT 763) and approved by John Jay Online (Fall 2016 – Spring 2017)
- Faculty Search Committee (Fall 2016 – Spring 2017)

Professional Services

Ad-Hoc Reviewer for Refereed Journals

- *International Journal of Disaster Risk Reduction*
- *International Journal of Mass Emergencies and Disasters*
- *Journal of Risk Research*
- *Natural Hazards*
- *Natural Hazards Review*
- *Weather, Climate and Society*

Teaching Interests

- Emergency Management (i.e., mitigation, preparedness, response, and recovery)
- Risk Communications
- Research Methods in Emergency Management
- GIS Applications in Emergency Management
- Risk and Vulnerability Assessment

Research Interests

- Technological and Natural Hazards
- Emergency Management
- Public Health
- Risk Perception and Communication
- Protective Actions
- Evacuation
- Environmental Justice
- Social Vulnerability
- Resilience
- Sustainability

Membership in Professional Organizations

- International Research Committee on Disasters (RC-39) of the International Sociological Association
- North America Taiwanese Professors' Association (NATPA)