

## Hao-Che (Tristan) Wu

Department of Political Science  
Oklahoma State University  
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Stillwater, OK. 74078  
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### **EDUCATION**

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- Ph.D. 2013. Urban and Regional Science Program, Texas A&M University, College Station, TX. Dissertation Title: “Perceptions on Hurricanes Information and Tracking Maps” Examination areas: Emergency Management, Theory and Methods
- M.A. 2004. Economics Dept., Ming Chung University, Taoyuan, Taiwan. Thesis Title: “Financial Depth and Economic Growth in China”
- B.S. 2001. Economics Dept., Chinese Culture University, Taipei, Taiwan,

### **PROFESSIONAL EXPERIENCE**

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- 2014-present Assistant Professor, Department of Political Science, Oklahoma State University
- 2013-2014 Post-Doctoral Fellow, Department of Political Science, Sam Houston State University
- 2013-2014 Editorial Assistant, *International Journal of Mass Emergencies and Disasters (IJMED)*
- 2009-2013 Research Associate, Hazard Reduction and Recovery Center, Texas A&M University
- 2005-2006 Instructor, Dept. of Urban Planning and Disaster Management, Ming Chuan University
- 2004-2005 Private, Information and Emergency Response Office, Northern Coastal Patrol Office, Taiwan Coast Guard Administration
- 2001-2004 Research Assistant, Dept. of Urban Planning and Disaster Management, Ming Chuan University

### **AREAS OF SPECIALIZATION**

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Risk Communication, Natural Disasters, Risk Analysis, Household Disaster Response, Social Media, Quantitative Methods, Social Experimental Study, ArcGIS

## RESEARCH GRANTS RECEIVED

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- Wu, H-C (PI), Oklahoma State University, *Local Communities' Seismic Risk Perceptions and Hazard Adjustment Adoption in Oklahoma*, \$3,000, 7/1/2016-6/30/2017
- Wu, H-C (PI), Oklahoma State University, *Flood Emergency Risk Communication and It Missing Link during 2013 September Colorado Flood*, \$3,000, 7/1/2015-6/30/2016
- Wu, H-C (PI) with Clayton Wukich (co-PI) and Andrew Prelog (co-PI), National Science Foundation, *RAPID: Emergency Evacuations and Risk Communication during the 2013 Colorado Flood* (CMMI 1431139), \$39,162; 3/1/2014-2/28/2016.

## PUBLICATIONS

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### Peer-Reviewed Articles

- Huang, S-K., Wu, H-C., Lindell, M.K., Wei, H-L., and Samuelson C.D. (Submitted) Perceptions, Behavioral Expectations, and Implementation Timing for Response Actions in a Hurricane Emergency, *Natural Hazards*.
- Aleski J. and Wu, H-C. (Submitted). Getting engaged: Facebook and the fire service. *International Fire Service Journal of Leadership and Management*.
- Jon, I., Lindell, M.K., Prater, C.S., Huang, S-K. Wu, H-C., Johnston, D.M., Becker, J.S., Shiroshita, H. (In Press). Behavioral Response in the Immediate Aftermath of Shaking: Earthquakes in Christchurch and Wellington, New Zealand, and Hitachi, Japan. *International Journal of Environmental Research and Public Health*.
- Lindell, M.K., Mumpower J., Huang, S-K., Wu, H-C., Samuelson, C-D., and Wei, H-L. (2017). Perceptions of protective actions for a water contamination emergency. *Journal of Risk Research*. 20(7):887-908
- Steinberg, A., Wukich, R.C., and Wu, H-C. (2016). Central social media actors in disaster information networks. *International Journal of Mass Emergencies and Disasters*. 34(1):47-74.
- Lin, C-C., and Wu, H-C. (2016). The Ridership of Airport Rail Transit and Taoyuan. *Journal of Rail Transportation and Urban Development*. 1(1):7-20.
- Lindell, M. K., Prater, C.S., Wu, H-C, Huang, S.K., Johnston, D.M., Becker, J.S., and Shiroshita, H. (2016) Immediate Behavioral Responses to Earthquakes in Christchurch New Zealand and Hitachi Japan, *Disasters*. 40(1):85-111
- Lindell, M.K., Mumpower J., Huang, S-K., Wu, H-C., and Samuelson, C-D. (2015). Exposure path perceptions and protective actions in biological water contamination emergencies. *Environmental Health Insights*. DOI: 10.4137/EHL.S33383.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2015) Process Tracing Analysis of Hurricane Information Display. *Risk Analysis*. 35(12): 2202-2220.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2015) Strike Probability Judgments and Protective Action Recommendations in a Dynamic Hurricane Tracking Task. *Natural Hazards*. 79(1):355-380.
- Lindell, M.K., Gregg, C.E., Prater, C.S., Huang, S.K., Wu, H-C., and Apatu E.J. (2015) Households' Immediate Responses to the 2009 Samoa Earthquake and Tsunami. *International Journal of Disaster Risk Reduction*. 12:328-340.

- Wu, H-C., Lindell, M.K., and Prater, C.S. (2014). Effects of Track and Threat Information on Judgments of Hurricane Strike Probability. *Risk Analysis*, 34(6), 1025-1039.
- Lin, C.C., Siebeneck, K.L., Lindell, M.K. Prater, C.S., Wu, H-C., and Huang S.K. (2014). Evacuees' information sources and reentry decision making in the aftermath of Hurricane Ike. *Natural Hazards*, 70, 865-882.
- Siebeneck, L.K. Lindell, M.K., Prater, C.S., Wu, H-C., and Huang, S.K. (2013). Evacuees' reentry concerns and Experiences in the Aftermath of Hurricane Ike, *Natural Hazards*, 65, 2267-2286.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2012). Logistics of Hurricane Evacuation in Hurricanes Katrina and Rita, *Transportation Research Part F: Traffic Psychology and Behavior*, 15(4), 445-461.
- Huang, S.K., Lindell, M.K., Prater, C.S., Wu, H-C., and Siebeneck, L.K. (2012). Household Evacuation Decision Making in Response to Hurricane Ike. *Nature Hazard Review*, 13(4), 283-296.
- Hung, C.T. and Wu, H-C., (2005). Local State Governance and its Own Basic Industry: Case Study in Quemoy Kaoliang Liquor Inc., *City Planning Review*,3(1), 26-30.

#### **Peer-Reviewed Book Chapters**

- Wu, H-C., Arlikatti, S., Prelog, A., Wukich C., (2017) Household response to flash flooding in the United States and India: A comparative study of the 2013 Colorado and Uttarakhand disasters. In M. Companion and M. Chaiken (Eds). *Understanding Vulnerability, Building Resilience: Responses to Disasters and Climate Change* (p.p. 37-48). New York, NY: CRC Press.
- Wu, H-C., and Huang S.K. (In Press) Household Mass Evacuation Behaviors during Disaster Response. In J-J. Wang (Ed). *Emergency Management: The 20 Core Courses*.
- Wu, H-C., Huang S.K., and Lindell M.K. (In Progress). Evacuation Planning. In S.S. Ven Zendt and W. Peacock (Eds). *The Handbook of Planning for Disaster Resilience*. New York, NY: Informa UK Limited.

#### **Editor Reviewed Book Chapters**

- Hung, C.T., Wu, H.C., and Cao, M.J. (2014). The post-Olympic Games' spatial socio-economic vulnerability and its restructure process: case study at a central area of the Olympic games in Beijing, China. In M.P. Amado (Ed), *Urban Planning: Practices, Challenges and Benefits* (p.p. 73-88). Hauppauge, NY: Nova Science Publishers.
- Wu, H.C., Lindell, M.K., and Prater, C.S. (2014). The Logistics of Household Hurricane Evacuation during Hurricane Ike. In J. Cheung and H. Song (Eds), *Logistics: Perspectives, Approaches and Challenges* (pp. 127-140). Hauppauge, NY: Nova Science Publishers.

#### **Conference Presentation**

- Wu, H-C. (2016, November). Oklahoma Political Science Association Conference-Discussion on Oklahoma Disaster Roundtable, Oklahoma City, OK.

- Wu, H-C., Lindell, M.K., Prater, C.S., Huang, S-K., Johnston, D.M., Becker, J.S., and Shiroshita, H. (2016, November). Immediate behavioral response to earthquakes in Christchurch, New Zealand, and Hitachi, Japan, 2016 Conference on Disaster Prevention and Protection (Invited), Taipei, Taiwan.
- Huang, S-K, Wu, H-C, Lindell M.K. and Samuelson C.D. (2016, July). Individuals' Responses to Tornado Warning Polygons, 2015 3rd ISA Forum of Sociology, Vienna, Austria.
- Wu, H-C (2015, November). Emergency Response and Communication Technology, Oklahoma Political Science Association Conference-Disaster Roundtable, Edmond, OK.
- Wu, H-C (2015, November). Peer Review Process for Grant Proposals and Research, The Bill Anderson Fund Student council Workshop Series (Invited), Webinar.
- Wu, H-C (2015, September). Disaster Risk Information Use and Protective Action Decision Making. Disaster Mitigation and Emergency Management Conference (Invited), Central Police University, Taiwan.
- Wu, H-C (2015, July). Warning Messages, New Technologies, and Warning Responses, 40th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO.
- Wu, H-C., Provencio, A., Prelog, A. (2015, July). Emergency Evacuation Information Source during the 2013 Colorado Floods. Weld County Commissioner Meeting, Greeley, CO.
- Prelog, A., Wu, H.C., Wukich, C., (2015, July). Emergency Management and the Communication of Risk during the 2013 Colorado Floods, The IRCD Researchers Meeting- Risk Assessment, Planning, and Communication, Broomfield, CO.
- Wu, H-C., Wukich, C., Prelog, A. Khemka A. (2015, April). Emergency Evacuation and Risk Communication during the 2013 Colorado Flood, 73th Annual Midwest Political Science Association Conference-The Politics and Administration of Disaster Preparedness, Response, and Recovery, Chicago, IL.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2014, July). Perceptions on Hurricanes Information and Protective Action Decisions, 2014 XVII ISA World Congress of Sociology, Yokohama, Japan.
- Hung, C.T. and Wu, H-C. (2014, January). Government's Adaptive Planning Strategies when Facing Secondary Disasters: Case Studies in Beichuan-Qiang and Qing-Ping, China, 2014 International Disaster Conference & Expo, New Orleans, LA.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2013, October). Hurricane Tracking and Hurricane Information Search, 2013 Young Scientist Conference (Invited), Taipei, Taiwan.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2013, July). Process Tracing Analysis of Hurricane Information Displays, The IRCD Researchers Meeting- Mapping Disasters, Broomfield, CO.
- Wu, H-C., Lindell, M.K., Prater, C.S., and Hung, S.K. (2013, March). Assessing Patterns of Information Search in a Hurricane Tracking Task Using *DynaSearch*, The 2013 National Hurricane Conference, New Orleans, LA

- Wu, H-C., Lindell, M.K., and Prater, C.S. (2012, July). Communicating Hurricane Information, The IRCD Researchers Meeting- Warnings and Protective Action Decision Making, Broomfield, CO.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2011, July). Logistics of Hurricane Evacuation in Hurricanes Katrina and Rita, The IRCD Researchers Meeting- Evacuation, Displacement, and Recovery, Broomfield, CO.
- Wu, H-C., Lindell, M.K., Prater, C.S., and Huang S.K. (2013, March) Assessing Patterns of Information Search in a Hurricane Tracking Task Using *DynaSearch*, National Hurricane Conference, New Orleans, LA.
- Hung, C.T. and Wu, H-C., (2006, March). The Influence of Institutional Change on Local State Governance and its Own Industry: Case Study in Matsu Liquor Inc. and Quemoy Kaoliang Liquor Inc, Ming Chuan University International Academic Seminar, Ming Chuan University, Taipei, Taiwan
- Hung, C.T. and Wu, H-C., (2004, November). The Agent Role of Local State's Spatial Planning: Rent Seeking Behavior in Anting, Shanghai since 2000, National Land Planning Forum, National Cheng Kung University, Tainan, Taiwan

#### **Conference Posters**

- Wu, H-C, Lindell, M.K., Prater, C.S., Wei, H-L., Huang, S-K., Jon, I, Shiroshita, H., Johnston D.M, Becker, J.S., Fraser S.A., Doyle E.E.H., Wright, K.C., Potter, S.H., McClure, J., Leonard G.S., Coomer, M.A., and Johal S. (2016, July). Household Tsunami Risk Perception after Four Earthquakes in New Zealand and Japan, 41st Annual Natural Hazards Research and Applications Workshop, Broomfield, CO.
- Wu, H-C., Prelog, A., Wukich, C., and Khemka A. (2014, July). Emergency Evacuation and Risk Communication during the 2013 Colorado Flood, 39th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO.
- Wu, H-C., Lindell, M.K., Prater, C.S., and Huang, S.K. (2011, July). Effects of Hurricane Track and Threat Information on Judgments of Strike Probability, 36th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO.
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2010, November). Hurricane Evacuation during Hurricane Rita, GIS Day 2010, Texas A&M University, TX
- Wu, H-C., Lindell, M.K., and Prater, C.S. (2010, July). Logistics of Hurricane Evacuation in Hurricanes Katrina and Rita, 35th Annual Natural Hazards Research and Applications, Broomfield, CO.

## **COURSES TAUGHT**

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### Undergraduate

POLS 1113 American Government  
POLS 2301 American Government-  
Federal and State  
POLS 2302 Public Policy  
URPN 310 Urban Analytical Methods  
UPDM 04202 Laboratory of Planning  
and Disaster Management

### Graduate

POLS 5383 Disaster Recovery  
POLS 5643 Hazard, Vulnerability and  
Risk Analysis  
POLS 5933 Disaster Response  
POLS 5653 Risk Analysis (in Korea)  
POLS 6123 Quantitative Method for  
Emergency Management

## **STUDENT ADVISEES**

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### MA committee chair (Thesis)

Benjamin Caffee (current)  
Jim Aleski (Graduated, 2016)

### MS committee member (Thesis/Practicum):

Allen Simmons (Graduated, 2016)  
Greg Moulin (Graduated, 2016)  
Hoil Jang (Graduated, 2016)  
Corey Solan (Graduated, 2016)  
Jared Karns (current)  
Jeff Hogan (current)  
Jonathan Rubenstein (current)  
Pete Sutterfield (current)  
Russell Wilson (current)  
Steven Melton (current)

### Dissertation Committee chair/advisor:

Alyssa Provencio (Graduated, 2017)  
Kevin Milan (Graduated, 2017)

### Dissertation Committee member:

Brett Bailey (Graduated, 2016)  
Hannah Vick (current)  
Jarett Metheny (current)  
Mellena Nichols (current)  
Putnam Reiter (current)  
Steven Haynes (current)  
Allen Patrick (current)  
Maria Wegner (current)  
Mike Thayer (current)  
Ronnie Gill (current)  
Ryan Devine (current)

## **INVITATIONS TO SPEAK AND GUEST LECTURES**

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- 2016 URDM 04511 Disaster Mitigation Planning Lab, “Risk Information Use and Protective Action Decision Model.” Department of Urban Planning and Disaster Management, Ming Chuan University. Spring.
- 2016 POLS 3813 Aim and Scope of Emergency Management, “Disaster Recovery.” Department of Political Science, Oklahoma State University. Spring.
- 2016 POLS 6303 Population at Risk, “Risk Mapping.” Department of Political Science, Oklahoma State University. Spring.
- 2016 POLS 6303 Population at Risk, “History and World Views.” Department of Political Science, Oklahoma State University. Spring.
- 2015 POLS 5693 Emergency Management in the International Setting, “2013 Japan and New Zealand Earthquake.” Department of Political Science, Oklahoma State University. Fall.
- 2012 URPN 201 Urban Analytical Methods, “The Visual Display of Data.” Department of Urban and Regional Science, Texas A&M University. Spring.
- 2012 URPN 310 Urban Analytical Methods, “Research Validity and Reliability.” Department of Urban and Regional Science, Texas A&M University. Spring.

## **PROFESSIONAL SERVICE**

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- 2014-present Member, Outreach/Philanthropy Committee-International Outreach, Department of Political Science
- 2016-present Member, FEMP Curriculum Committee, Department of Political Science
- 2014-present Member, FEMP Admission Committee, Department of Political Science
- 2016-present Member, Earthquake Engineering Research Institute
- 2016-present Member, Oklahoma State University Fire Council
- 2015-present Member, Bill Anderson Foundation
- 2014-present Advisor, Oklahoma State University Taiwanese Students Association
- 2014-2015 Member, Prince Dissertation Award Committee
- 2014-2015 Member, Public Administration Search Committee, Department of Political Science
- 2014-2015 Member, RPS Subcommittee, Department of Political Science

## **JOURNAL REVIEWER**

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*International Journal of Disaster Risk Reduction*  
*International Journal of Mass Emergencies and Disasters*  
*Journal of Contingencies and Crisis Management*  
*Journal of Emergency Management*  
*Natural Hazards*  
*Risk analysis*  
*Weather, Climate and Society*

## **AWARD AND CERTIFICATE**

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- 2017 *OSU Political Science Department Outstanding Research Award*
- 2016 *OSU Political Science Department Outstanding Research Award*
- 2014 *TAMU Certificate in Environmental Hazard Management*
- 2014 *TAMU Graduate Certificate in Geographic Information Systems*
- 2008 *Community Planner in Tao-Yuan Prefecture by Tao-Yuan Prefecture Government*
- 2008 *Japanese Language Proficiency Test: Level 1 by the National Interchange Association Japan*