

YANG ZHANG

Architecture Annex (0113)
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2017 to	Associate Director, School of Public and International Affairs, Virginia Tech,
2016 to 2018	Associate Chair, Urban Affairs and Planning, Virginia Tech
2015 to	Associate Professor, Urban Affairs and Planning, Virginia Tech
2012 to	Program leader, Interdisciplinary Graduate Program in Disaster Resilience, Virginia
2012 to 2016	Program Coordinator, Master of Urban and Regional Planning Program, Urban
2008 to 2015	Assistant Professor (Tenure Track), Urban Affairs and Planning, Virginia Tech, Blacksburg, VA
2006 to 2008	Assistant Professor (Tenure Track), University of Illinois at Springfield, Springfield, IL
2000 to 2006	Research Associate, Hazard Reduction & Recovery Center, Texas A&M University, College Station, TX
1997 to 2000	Research Assistant, Environmental Engineering Research Institute, Peking University, Beijing, China

RESEARCH INTERESTS

Post-disaster Recovery
Disaster Vulnerability Assessment
Hazards Mitigation, Floodplain Management
Disaster Resilience

EDUCATION

Ph.D. Urban and Regional Science, 2006, Texas A&M University, College Station, TX
Research focus: disaster recovery, natural hazards mitigation, vulnerability
assessment

Dissertation: *Modeling Single Family Housing Recovery After Hurricane Andrew in Miami-Dade County, FL*

M.S. Urban and Environmental Sciences, 2000, Peking University, Beijing, China
Research focus: environmental planning and land use

B.S. Economic Geography, 1997, Peking University, Beijing, China

GRANTS AND CONTRACTS (FUNDED)

2019-2020 ***Co-Principle Investigator***, Natural Hazards Center, \$2,500, PI: Qiong Wang, Co-PIs: Kristin Owen

What Drives Hazard Mitigation Policy Adoption? — FEMA's Property Buyout Program in Virginia

2018-2023 ***Co-Principle Investigator, National Science Foundation***, \$3,000,000, PI: Robert Weiss, Co-PIs: Jennifer Irish, Margaret Cowell, Christopher Zobel, Guney Olgun, Debra Olsen

NRT: Disaster Resilience and Risk Management (DRRM): Creating quantitative decision making frameworks for multi-dimensional and multi-scale analysis of hazard impacts

2016 to 2017 ***Principle Investigator***, Virginia Tech Global Forum for Urban and Regional Resilience, \$1,5000, Co-PI: Christopher Zobel.

Quantifying Natural Disasters' Impact on Neighborhood Transition

2015 to 2016 ***Co-Principle Investigator***. Korean Research Institute for Human Settlements, \$3,6000, PI: Patrick Roberts.

Building Urban Resilience: Flood and Climate Change Preparedness in U.S and Korean Cities

2010 to 2014 ***Principle Investigator, National Science Foundation***, \$ 123,051. CMMI-1029298. PIs: Robert Olshansky (University of Illinois, CMMI-1030332), Yu Xiao (Texas A&M, CMMI-1029805), Yan Song (University of North Carolina, CMMI-1030413).

Collaborative Proposal: Developing An Intergovernmental Management Framework For Sustainable Recovery Following Catastrophic Disasters

2014-2015 ***Principle Investigator***. Ridenour Faculty Forum and Institute for Society, Culture and Environment, \$20,000. Co-PIs: Margaret Cowell, Christopher Zobel, William Drake, Yuhong Li.

Fostering Community Resilience through Adaptive Learning in a Social Media Age.

- 2013-2015 ***Co-Principle Investigator.*** Institute for Society, Culture and Environment-Global Issues Initiative, \$20,000. PI: Christopher Zobel, Co-PIs: Margaret Cowell, Guney Olgun, Robert Weiss.
- Building a Common Language around the Dynamic Resilience of Coastal Communities.
- 2012-2013 ***Principle Investigator.*** Institute of Society, Culture and Environment, \$17,272, Co-PIs: John Randolph, William Drake.
- Developing a Policy Framework for Community Resilience Building after Disaster.
- 2014-2016 ***Co-Principle Investigator.*** Virginia Tech Graduate School, PI: Christopher Zobel, Co-PIs: Margaret Cowell, Guney Olgun, Robert Weiss.
- Interdisciplinary Graduate Education Program in Disaster Resilience and Risk Management (DRRM-IGEP).
- 2012 ***Principle Investigator.*** GeoEye Foundation, Remote Sensing Imagery Grant. Co-PI: William Drake.
- Using High-resolution Imagery to Assess Damage and Recovery following the 2008 Wenchuan Earthquake.
- 2012 ***Principle Investigator.*** AdvanceVT, Mentoring Grant, \$1,500.
- 2011-2013 ***Principle Investigator.*** Peking University-Lincoln Institute of Land Policy Center for Urban Development and Land Policy, Book Grant \$ 9,000.
- Sustainable Urban Disaster Reduction and Hazards Mitigation: International Experiences.
- 2010 to 2011 ***Co-Principle Investigator. Virginia Sea Grant,*** \$10,636. PI: John Randolph, Co-PIs: Ted Koebel, Tommi Godwin.
- Climate Change Adaptation Strategies For Middle Peninsula Counties in the Virginia Coastal Community.
- 2009 to 2012 ***Principle Investigator.*** Lincoln Institute - Peking University Center for Urban Development and Land Policy, \$ 12,000.
- Planning and Rebuilding after Catastrophic Natural Disasters.
- 2008 ***Principle Investigator.*** Virginia Tech SCHEV Strategic Development Fund, \$33,939.
- Building a SPIA Geographic Information Systems Lab
- 2007 to 2009 ***Principle Investigator.*** Lincoln Institute of Land Policy, \$49,132.
- Integrated Land Use Planning in China: Theory and a Demo Project.

- 2007 to 2009 **Principle Investigator.** Lincoln Institute of Land Policy, \$ 21,804.
Evaluating Urban Planning Policy in China.
- 2007 to 2008 **Research subcontract.** Mid America Earthquake Center, \$3,500.
Post-disaster Population Dislocation Estimation.
- 2006 to 2008 **Principle Investigator.** University of Illinois Strategic Academic Initiatives Grant, \$7,477.
A Survey of Public Domain Data for the State of Illinois.
- 2004 to 2005 **Principle Investigator.** Vice President Office's Research Grant, Texas A&M University \$ 500.
Examining Human Settlements within Flood Zones in Brazos County, TX.

GRANTS AND CONTRACTS (UNFUNDED)

- 2017 **Co-Principle Investigator, National Science Foundation,** \$3,000,000, PI: Ryan Pollyea, Co-PIs: Amanda Hughes (Utah State), Christopher Zobel, Guney Olgun, John Tylor (Georgia Tech)

CRISP Type 2: Collaborative Research: Planning for high probability events in low probability environments - the resiliency paradox of fluid-triggered earthquakes in Oklahoma
- 2016 **Co-Principle Investigator.** Institute for Critical Technology and Applied Science, \$825,676, PI: Jennifer Irish, Co-PIs: Robert Weiss, Christopher Zobel, Guney Olgun.

Center for Disaster Resilience (CDR) at Virginia Tech: A Transdisciplinary Computational Framework for Multidimensional and Multiscale Analysis of Disaster Resilience.
- 2015 **Principle Investigator.** U.S. Department of Housing and Urban Development (HUD), \$45,545. Co-PIs: Ted Koebel (Urban Affairs and Planning, Virginia Tech).

Deciphering the divergent performance of CDBG-DR housing programs after Hurricane Sandy
- 2015 **Co-Principle Investigator.** National Science Foundation, \$491,046. PI: Kevin Heaslip (Civil and Environmental Engineering, Virginia Tech), Co-PIs: Christopher Zobel (Business Information Technology, Virginia Tech), John Taylor, Elizabeth McNair, Guney Olgun, Kathleen Hancock (Civil and Environmental Engineering,

Virginia Tech), Margaret Cowell (Urban Affairs and Planning, Virginia Tech), Robert Weiss (Geosciences, Virginia Tech).

NRT-IGE Track: Use of Near Real Time and Archived Data to Enhance Graduate Education

2015 ***Co-Principle Investigator.*** National Science Foundation, \$2,997,877. PI: Jennifer L. Irish (Civil and Environmental Engineering, Virginia Tech), Co-PIs: Robert Weiss (Geosciences, Virginia Tech), Christopher Zobel, Loren P. Rees (Business Information Technology, Virginia Tech), Anamaria Bukvic (Urban Affairs and Planning, Virginia Tech)

Hazards SEES: A Transdisciplinary, Stakeholder/data-driven Model for Coastal Disaster Mitigation and Recovery

2015 ***Co-Principle Investigator.*** National Science Foundation, \$3,000,000. PI: Robert Weiss (Geosciences, Virginia Tech), Co-PIs: Christopher Zobel (Business Information Technology, Virginia Tech), Guney Olgun (Civil and Environmental Engineering, Virginia Tech), Margaret Cowell (Urban Affairs and Planning, Virginia Tech), Kathleen Hancock (Civil and Environmental Engineering, Virginia Tech).

NRT: Disaster Resilience and Risk Management (DRRM)-Creating a more Disaster Resilient Society through Graduate Education (resubmission, not selected by Virginia Tech internal competition)

2014 ***Co-Principle Investigator.*** Department of Homeland Security (DHS), \$19,984,457. PI: Christopher Barrett (VBI, Virginia Tech), Co-PIs: Kevin Heaslip, Pamela Murray, Kathleen Hancock, Kostas Triantis, Roberto Leon, Matt Eatherton (CEE), Christopher Zobel (BIT), Stephen G. Eubank, Anamitra Pal, Henning Mortveit, Samarth Swarup, Achla Marathe, Young Chung Baek, Md-Abdul Khan (VBI), Arun Phadke, Virgilo Centeno (ECE), Ralph Hall, Yang Zhang, Patrick Roberts, Maggie Cowell (SPIA), Gizem Korkmaz, Mark Orr (SDAL).

DHS Center of Excellence -Center for Contextualized, Cascading Resilience (C2R)

2014 ***Co-Principle Investigator.*** National Science Foundation, \$3,000,000. PI: Robert Weiss (Geosciences, Virginia Tech), Co-PIs: Christopher Zobel (Business Information Technology, Virginia Tech), Guney Olgun (Civil and Environmental Engineering, Virginia Tech), Margaret Cowell (Urban Affairs and Planning, Virginia Tech), Kathleen Hancock (Civil and Environmental Engineering, Virginia Tech).

NRT: Disaster Resilience and Risk Management (DRRM): Creating quantitative decision making frameworks for multi-dimensional and multi-scale analysis of hazard impacts

2014 ***Co-Principle Investigator.*** National Science Foundation, \$250,000. PI: Adrian Rodriguez-Marek (Civil and Environmental Engineering, Virginia Tech), Co-PIs: Matthew Eatherton, Guney Olgun (Civil and Environmental Engineering, Virginia Tech)

FELLOWSHIPS, AWARDS AND SCHOLARSHIPS

- 2016 **American Planning Association (APA) Virginia Chapter Teaching Excellence Award**, APA Virginia Chapter.
- 2015 **Certificate of Teaching Excellence**, Center for Instructional Development and Educational Research (CIDER), Virginia Tech, Blacksburg, VA.
- 2013 **Visiting Fellow**, Peking University Shenzhen Graduate School, China.
- 2013 **International Faculty Development Award**, the Office of Vice-President for Outreach and International Affairs, Virginia Tech, Blacksburg, VA.
- 2012 **Teaching Excellence Award**, College of Architecture and Urban Studies, Virginia Tech, Blacksburg, VA.
- 2009 to 2011 **Disasters and Hazards Researchers Enabling Fellowship**, National Science Foundation (NSF).
- 2009 **International Travel Supplemental Grant Award**, Office of the Vice-President for Research, Virginia Tech.
- 2008 to present **International Research Fellow**, Lincoln Institute-Peking University Center for Urban Development and Land Policy, Beijing, China.
- 2006 **Best Research Poster Award**, the Mid-America Earthquake Center, University of Illinois, Urbana-Champaign, IL.
- 2005 **Teaching Excellence Certificate**, Texas A&M University, College Station, TX.
- 2005 **Graduate Student Travel Award**, Fannie Mae Foundation, Washington D.C.
- 2003 **Graduate Student Travel Award**, Texas A&M University, College Station, TX.
- 2000 to 2003 **Graduate Scholarship**, Texas A&M University, College Station, TX.
- 1999 **Best Paper Award**, Chinese Geography Society, China.
- 1993 to 2000 **Graduate Scholarship** in seven consecutive years, Peking University, Beijing, China.

REFEREED JOURNAL ARTICLES

⁺⁺ Denotes Current or Former Student

Song, Yan, **Zhang, Yang**, and Xiao, Yu (2016) "Are We Planning for Sustainable Disaster Recovery? Evaluating Recovery Plans after the Wenchuan Earthquake." *Journal of Environmental Planning and Management*, DOI: 10.1080/09640568.2017.1282346

Zhang, Yang, ⁺⁺Drake, William, Xiao, Yu, Olshansky, Robert, Johnson, Laurie, and Song, Yan. (2016). "Disaster Recovery Planning after Two Catastrophes: The 1976 Tangshan Earthquake and the 2008 Wenchuan Earthquake." *International Journal of Mass Emergencies and Disasters (IJMED)*, 34(2): 174-203.

Chandrasekhar, Divya, **Zhang, Yang**, and Xiao, Yu. (2015). "Non-traditional Participation in Disaster Recovery Planning: Cases from China, India, and the U.S." *Journal of American Planning Association (JAPA)*, 80 (4): 373-384, DOI: [10.1080/01944363.2014.989399](https://doi.org/10.1080/01944363.2014.989399).

Peacock, Walter Gillis, Van Zanht, Shannon, **Zhang, Yang**, and Highfield, Wesley. (2015). "Inequities in Long-term Housing Recovery after Disasters." *Journal of American Planning Association (JAPA)*, 80:4, 356-371, DOI: [10.1080/01944363.2014.980440](https://doi.org/10.1080/01944363.2014.980440).

Zhang, Yang, Zhang, Chun, ⁺⁺Drake, William, and Olshansky, Robert. (2014). "Planning and Recovery Following the Great 1976 Tangshan Earthquake." *Journal of Planning History*. DOI: 10.1177/1538513214549435.

Zhang, Yang. (2012) "Will Natural Disasters Accelerate Neighborhood Decline?" *Environment and Planning B* 39(6): 1084-1104.

Zhang, Chun and **Zhang, Yang**. (2012). "Recovery following the Tangshan Earthquake." *Urban Development Research*, 19(5): 119-126. (in Chinese)

Zhang, Yang. (2011) "Land Use Planning and Resilient City: Lessons from U.S. Experiences." *Journal of International Urban Planning*, 26(4): 2-11. (in Chinese)

Zhang, Yang. (2010) "Residential Housing Choice in a Multihazard Environment: Implications for Natural Hazards Mitigation and Community Environmental Justice." *Journal of Planning Education and Research*, 30(2): 1-15

Zhang, Yang and Peacock, Walter Gillis. (2010) "Planning for Housing Recovery? Lessons Learned from Hurricane Andrew." *Journal of American Planning Association*. 71 (5): 5-24.

Zhang, Yang, Hwang, Seong-Nam, and Lindell, Michael. (2010) "Hazard Proximity or Risk Perception? Evaluating Environmental Hazards' Effect on Housing Value." *Environment and Behavior*. 42(5): 597-624.

⁺⁺Maranville, Angela and **Zhang, Yang**. (2009) "An Environmental Justice Analysis, Superfund Sites and Surrounding Communities in Illinois." *Environmental Justice*. 2 (2): 49-58.

Zhang, Yang, Lindell, Michael, and Prater, Carla (2009) "Modeling and Managing the Vulnerability of Community Businesses to Environmental Disasters." *Disasters*, 33(1): 38-57.

Arlikatti, Sudha, Lindell, Michael, Prater, Carla, and **Zhang, Yang**. (2006). "Risk Area Accuracy and Hurricane Evacuation Expectations of Coastal Residents." *Environment and Behavior*, 38(2): 226-247.

Zhang, Yang, Prater, Carla, and Lindell, Michael. (2004) "Risk Area Accuracy and Hurricane Evacuation from Hurricane Bret." *Natural Hazards Review*, 5 (3): 115-120.

Li, Guoping, and **Zhang, Yang**. (2001) "Industrialization and Urban Form Development in Coal Region, A Case Study on City of Funshun." *Scientia Geographica Sinica*, 21(6): 511-518.

Yang, Kaizhong and **Zhang, Yang**. (1999) "Industrial Structure and Cities' Comparative Advantage -- A Case Study of Tianjin, China." *Scientia Geographica Sinica*, 19(6): 510-516.

ENCYCLOPEDIA ENTRIES

⁺⁺ Denotes Current or Former Student

Zhang, Yang and ⁺⁺Drake, William. (2014). "Geographic Information Systems (GIS)." In Alex Michalos (Ed.), *Encyclopedia of Quality of Life and Well-Being Research*, (pp. 2521-2524). New York: Springer.

Zhang, Yang and ⁺⁺Drake, William. (2014). "Mapping Neighborhoods." In Alex Michalos (Ed.), *Encyclopedia of Quality of Life and Well-Being Research*, (pp. 3767-3769). New York: Springer.

CONFERENCE PROCEEDINGS

⁺⁺ Denotes Current or Former Student

Zobel, Christopher, Baghersad, Milad, and **Zhang, Yang**. (forthcoming). "Calling 311: Evaluating the performance of municipal services after disasters." The Proceedings of the 14th ISCRAM Conference, Albi, France, May 2017.

Zhang, Yang, ⁺⁺Drake, William, ⁺⁺Li, Yuhong, Zobel, Christopher and Cowell, Margaret. (2015). "Fostering Community Resilience through Adaptive Learning in a Social Media Age: Municipal Twitter Use in New Jersey following Hurricane Sandy." In Palen, Büscher, Comes and Hughes (eds.) *Proceedings of the ISCRAM 2015 Conference*, Kristiansand, Norway, May 24-27.

Peacock, Walter Gillis, **Zhang, Yang** and Dash, Nicole. (2007). "Sheltering, Temporary Housing, and Permanent Housing Recovery Following a Major Natural Disaster in the United States." *The International Workshop on Disaster Recovery and Rescue*, Taipei, Taiwan, November 14-15.

Lu, Jing-Chein, Peacock, Walter Gillis, **Zhang, Yang**, and Dash, Nicole. (2006). "A Comparative Study of Single Family and Multifamily Housing Recovery Following 1992 Hurricane Andrew in Miami-Dade County, Florida." *Hazards and Disasters Researchers Meeting*, Boulder, CO: July 11-12.

BOOKS and BOOK CHAPTERS

⁺⁺ Denotes Current or Former Student

Zhang, Yang and ⁺⁺Drake, William (forthcoming). "Housing Recovery after Disasters." In Shannon Van Zandt and Walter Gillis Peacock (Eds.), *Handbook of Planning for Disaster Resilience*, New York: Routledge (forthcoming).

Peacock, Walter Gillis, Dash, Nicole, **Zhang, Yang**, and Van Zandt, Shannon (2017). "Post-Disaster Sheltering, Temporary Housing and Permanent Housing." Pp. 569-595. In Havidan Rodriguez, William Donner, and Joseph E. Trainor (Eds.) *Handbook of Disaster Research*, New York: Springer.

Zobel, Christopher, Baghersad, Milad, and **Zhang, Yang** (2017). “An approach for quantifying the multidimensional nature of disaster resilience in the context of municipal service provision.” Pp. 239-261. In Alexander Fekete and Frank Fiedrich (ed.), *Urban Disaster Resilience and Security – Novel Approaches for Dealing with Risks in Societies*, New York, NY: Springer

Zhang, Yang and ⁺⁺Drake, William (2016). “Housing Recovery after the 2008 Wenchuan Earthquake in China.” Pp. 191-207. In Alka Sapat and Ann-Margaret Esnard (Eds), *Post-disaster Housing*, New York: CRC Press.

Zhang, Yang, Lu, Bin and Zhang, Chun. (2012). *Sustainable Urban Disaster Reduction and Hazards Mitigation, and Urban Land Use Planning*. Beijing: Science Press. ISBN: 978-7-03-034904-0 (in Chinese).

Zhang, Yang, Song, Yan, Ding, Chengri. (2009). “Plan Integration for Coordinated Urban Growth in China.” (pp: 116-127). In Yan Song, and Chengri Ding (Eds), *Smart Urban Growth for China*, Cambridge, MA: Lincoln Institute of Land Policy Press.

Peacock, Walter Gillis, Dash, Nicole and **Zhang, Yang**. (2006). “Sheltering and Housing Recovery Following Disaster.” (pp. 258 – 274). In Russell Dynes, Havidan Rodriguez, and Enrico Quarantelli (Eds.) *Handbook of Disaster Research*, New York: Springer.

Zhang, Yang, Song, Yan and Ding, Chengri. (2006) “Scenario Planning: Scenario Evaluation Theory and Methodology.” (pp. 57-62). In Chengri Ding and Yan Song (Eds) *Urban Planning and Spatial Structure*, Beijing: Jiagong Press (in Chinese).

Zhang, Yang. (2006). “Scenario Planning: Plan Evaluation Indicators.” (pp 116-123). In Chengri Ding, and Yan Song (Eds) *Urban Planning and Spatial Structure*, Beijing: Jiagong Press (in Chinese).

Zhang, Yang. (2006). “A Survey of Planning Support Systems.” (pp 147-162). In Chengri Ding, and Yan Song (Eds) *Urban Planning and Spatial Structure*, Beijing: Jiagong Press (in Chinese).

Ding, Chengri, Song, Yan and **Zhang, Yang**. (2006) “Data Analysis for Urban Planning.” (pp 27-42). In Chengri Ding and Yan Song (Eds) *Urban Planning and Spatial Structure*, Beijing: Jiagong Press (in Chinese).

TECHNICAL REPORTS

Roberts, Patrick, **Zhang, Yang** (2016). *Managing Recovery After Major Flood Disasters* (pp. 40). Seoul: Korean government KHRIS research institute.

Roberts, Patrick, **Zhang, Yang** (2015). *Urban Resilience Policy to Prepare for Floods in the United States* (pp. 49). Seoul: Korean government KHRIS research institute.

Song, Yan and **Zhang, Yang**. (2009). *Deciphering China’s New Urban Forms: College Towns, New CBDs and Villages within Cities*. Cambridge, MA: Lincoln Institute of Land Policy.

Zhang, Yang and Maranville, Angela. (2007). *A Survey of Public Domain Data for the State of Illinois*. Springfield IL: University of Illinois at Springfield Geographic Information System Laboratory.

Lindell, Michael and **Zhang, Yang**. (2005). *Texas Coastal Bend Study Area Hurricane Storm Atlas*. Austin, TX: Texas Department of Public Safety.

Prater, Carla, **Zhang, Yang**, Arlikatti, Sudha and Lu, Jing-Chein. (2004). *Management of the Hurricane Lili Evacuation by Local Emergency Managers*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Ding, Chengri, Cervero, Robert, Moore, Terry, Song, Yan, Zhang, Ming, **Zhang, Yang**, and Bethke, Kellie. (2004). *Envisioning Beijing 2020 – Revision of Beijing Comprehensive Plan*. Cambridge, MA: Lincoln Institute of Land Policy.

Prater, Carla, Peacock, Walter Gillis, Lindell, Michael, **Zhang, Yang** and Lu, Jing-Chein. (2003). *A Social Vulnerability Approach to Estimating Potential Socioeconomic Impacts of Environmental Disasters*. College Station, TX: Texas A&M University Hazard Reduction & Recovery Center.

Zhang, Yang, Lindell, Michael and Prater, Carla. (2001). *Estimating Inland Wind Speeds for Hurricanes Striking the Texas Gulf Coast*. College Station, TX: Texas A&M University Hazard Reduction & Recovery Center.

Lindell, Michael, Prater, Carla, Sanderson, William, **Zhang, Yang**, Mohite, Amar and Hwang, Seong-Nam. (2001). *Texas Gulf Coast Residents' Expectations and Intentions Regarding Hurricane Evacuation*. College Station, TX: Texas A&M University Hazard Reduction & Recovery Center.

INVITED PRESENTATIONS/LECTURES

- 2015 **Invited International Expert**, The 9th International Association for China Planning (IACP) Conference, June 19-21, 2015, Chongqing, China.
- 2014 **Guest Speaker**, “Climate Change: Do Cities Hold the Solution?” The George Washington University Sustainable Urban Planning Research Symposium, October 24, Washington DC.
- 2014 **Plenary Speaker**, “Building Resilience after Disasters: Social Amplifications of Risk during Disaster Recovery.” the 5th International Disaster and Risk Conference (IDRC), August 24-28, Davos, Switzerland.
- 2014 **Session Chair**, “Regional Resilience: Normative Frames and Narratives.” The Global Forum on Urban and Regional Resilience Conference - New Perspective on Resilience: Normative Dimension of Resilience, October 12-14, Arlington, VA.
- 2014 **Session Chair, panelist**, “Research Frontiers of Disaster Resilience: Adaptive Learning and Social Media,” the 2014 Ridenour Faculty Fellowship Conference on Resilience, Oct 23-24, Arlington, VA.

- 2014 **Plenary Speaker**, “Housing Recovery after Disasters.” the Planning for Disaster Resilience Symposium, April 4-6, College Station, TX.
- 2013 **Guest Lecturer**, “Post-earthquake recovery following the 2008 Wenchuan Earthquake.” the Peking University Shenzhen Graduate School, China.
- 2012 **Plenary Speaker**, “Catastrophe Insurance and Urban Resilience.” the International Symposium on China’s Urban Development and Land Policy, July 14-15, Beijing, China.
- 2012 **Panelist**, “Defining Urban Resilience.” the 2012 Ridenour Faculty Fellowship Conference, Blacksburg, VA.
- 2011 **Panelist**, “Housing Resilience in Disaster Prone Communities.” the 41st Conference of Urban Affairs Association, March 16-19, New Orleans, LA.
- 2011 **Guest Lecturer**, “Rebuilding Urban Places after Natural Disasters.” Sichuan University, China.
- 2011 **Guest Lecturer**, “Post-earthquake Planning and Recovery in Tangshan following the Great 1976 Earthquake.” the Urban Affairs and Planning Program Faculty Lecture Series, November 4, Virginia Tech.
- 2010 **Guest Lecturer**, “Urbanization in China.” in Professor Sonia Hirt’s class: Urban Planning and Policy, School of Public and International Affairs, Virginia Tech.
- 2009 **Panelist**, “Research Roundtable: Long-term Disaster Recovery and Resiliency in China and the United States: Towards a Framework for Comparative Disaster Research.” the 2009 US-China Relations Conference, October 21-23, Beijing, China.
- 2009 **Guest Lecturer**, “Urbanization in China.” in Professor Sonia Hirt’s class: Urban Planning and Policy, School of Public and International Affairs, Virginia Tech.
- 2008 **Guest Lecturer**, “Hazard Mitigation and Post-earthquake Reconstruction in the United States.” Peking University, Beijing, China.
- 2008 **Guest Lecturer**, “Hazard Mitigation and Post-earthquake Reconstruction in the United States.” Tsinghua University, Beijing, China.
- 2007 Guest Lecturer, “GIS Applications in Public Administration.” Department of Public Administration, University of Illinois, Springfield, IL.
- 2007 Guest Lecturer, “Environmental Risk Management Using GIS.” Environmental Risk Management Workshop, University of Illinois, Springfield, IL.
- 2007 Guest Lecturer, “Integrated Land Use Planning.” Peking University, Beijing, China.
- 2007 Guest Lecturer, “Research Design in Land Use and Environmental Planning Research.” Zhejiang University, China.

- 2007 Guest Lecturer, “A Survey of Planning Support System.” Sichuan University, Chengdu, China.
- 2006 “Population Dislocation, Temporary Shelter, and Permanent Housing Recovery Estimation.” Mid-American Earthquake Center, Urbana-Champaign, IL.
- 2006 “Modeling Seismic Mitigation Strategies.” Workshop on Strategic Directions for (Seismic) Risk Modeling and Decision Support, Boulder, CO.
- 2006 “Constructing Social Vulnerability Indicators Using GIS.” Brazil National Emergency Management Workshop, Texas A&M University, College Station, TX.
- 2006 “GIS Applications in Natural Hazards Management.” Russia National Emergency Management Workshop, Texas A&M University, College Station, TX.
- 2005 “Single Family Housing Recovery after a Major Natural Disaster.” Mid-American Earthquake Center, Urbana-Champaign, IL.
- 2004 “GIS Applications in Environment Hazards, Disasters and Emergency Management.” Taiwan Emergency Management Workshop, College Station, TX.

CONFERENCE PRESENTATIONS

- 2015 “Using Earthquake Recovery to Expand Development Goals: Longitudinal Assessment of Urban Expansion in Dujiangyan using Remotely Sensed Data.” The 9th International Association of China Planners (IACP) Conference, June 19-21, Chongqing, China.
- 2015 “Fostering Disaster Resilience through Adaptive Learning in a Social Media Age: Municipal Twitter Use in New Jersey following Hurricane Sandy.” The 2015 Information Systems for Crisis Response and Management (ISCRAM) Conference, May 24-27, Kristiansand, Norway.
- 2012 “Rebuilding Urban Place after Disasters.” The 2012 Association of Collegiate Schools of Planning (ACSP) Conference, Cincinnati, OH.
- 2012 “Financing Post-Disaster Community Recovery: A Case Study of the Wenchuan Earthquake.” The 6th International Association for China Planning (IACP) Conference, June 17-19, Wuhan, China.
- 2011 “Will Natural Disasters Accelerate Neighborhood Decline?” The 2011 ACSP Conference, Salt Lake City, UT.
- 2010 “A Longitudinal Analysis of Effects of Hurricane Andrew on Housing Market.” The Association of American Geographers (AAG) Annual Meeting, Washington D. C.
- 2009 “Environmental Hazards and Housing Choice.” The 2009 ACSP Conference, Washington D.C.

- 2009 “A Comparison of Housing Policies Following Hurricane Katrina and the Wenchuan Earthquake.” the 2009 Urbanization in China Conference, Beijing, China.
- 2007 “Predicting Residential Land Use Change following a Major Natural Disaster – Miami-Dade County Experience after Hurricane Andrew.” ACSP Conference, Fort Worth, TX.
- 2006 “Post Disaster Housing Turnovers following Hurricane Andrew – Implications for disaster recovery planning.” ACSP Conference, Fort Worth, TX.
- 2006 “Single Family Housing Recovery Following Hurricane Andrew: A Hierarchical Modeling Approach.” Hazard Application and Research Annual Workshop, Boulder, CO.
- 2005 “Housing Recovery after Hurricane Andrew and its Implications for Planners.” ACSP Conference, Kansas City, MO.
- 2005 “Single Family Housing Recovery after Hurricane Andrew in Miami-Dade County, FL.” Southern Sociological Society Annual Conference, Charlotte, NC.
- 2005 “Spatial Pattern of Residential Land Use Changes Following Hurricane Andrew in Miami-Dade County Florida.” Hazard Application and Research Annual Workshop, Boulder, CO.
- 2004 “Modeling and Managing the Vulnerability of Community Businesses to Environmental Disasters.” ACSP Conference, Portland, OR.
- 2004 “Social Vulnerability to Natural Disasters: Concept and Measurement.” Hazard Application and Research Annual Workshop, Boulder, CO.
- 2004 “Mapping Social Vulnerability: A Case Study of Shelby County, Tennessee.” Hazard Application and Research Annual Workshop, Boulder, CO.
- 2003 “Housing Inequality in Miami-Dade County after Hurricane Andrew.” Hazard Application and Research Annual Workshop, Boulder, CO.
- 2003 “Map Reading Accuracy and Evacuation from Hurricane Bret.” Mid West Sociological Society Annual Conference, Chicago, IL.
- 2002 “Hurricane Hazard Assessment for the Gulf Coast of Texas.” Hazard Application and Research Annual Workshop, Boulder, CO.

COURSES TAUGHT

SS: Planning Resilient and Sustainable Community
 SS: Natural Hazards Mitigation Planning,
 Principles of Disaster Resilience and Risk Management
 Computational Applications in Urban Planning (GIS)
 Quantitative Techniques in Planning
 Advanced Quantitative Techniques in Planning Research
 Environmental Policy and Planning

Term	Course Title	Course Number	Credit Hours	Instructor Evaluation
Fall 2008	Quantitative Techniques in Planning	UAP 5224	4	3.8 ⁺⁺
Spring 2009	Computational Applications in Planning	UAP 5114	3	3.7 ⁺⁺
Spring 2009	Advanced Quantitative Techniques in Planning	UAP 5494	3	4.0 ⁺⁺
Fall 2009	Quantitative Techniques in Planning	UAP 5224	4	3.8 ⁺⁺
Fall 2009	SS: Natural Hazards Mitigation Planning ^{**}	UAP 5424	3	3.4 ⁺⁺
Spring 2010	Computational Applications in Planning	UAP 5114	3	3.9 ⁺⁺
Spring 2010	Advanced Quantitative Techniques in Planning	UAP 5494	3	4.0 ⁺⁺
Fall 2010	Quantitative Techniques in Planning	UAP 5224	4	3.8 ⁺⁺
Fall 2010	SS: Natural Hazards Mitigation Planning ^{**}	UAP 5424	3	3.9 ⁺⁺
Spring 2011	Computational Applications in Planning	UAP 5114	3	3.8 ⁺⁺
Spring 2011	Environmental Policy Senior Seminar	UAP 4364	3	3.2 ⁺⁺
Spring 2011	SS: Planning Resilient and Sustainable Community ^{**}	UAP 4984	3	3.2 ⁺⁺
Fall 2011	SS: Planning Resilient and Sustainable Community ^{**}	UAP 4984	3	5.2
Fall 2011	Quantitative Techniques in Planning	UAP 5224	4	5.8
Fall 2011	SS: Natural Hazards Mitigation Planning ^{**}	UAP 5424	3	5.8
Spring 2012	Computational Applications in Planning	UAP 5114	3	5.9
Spring 2012	Advanced Quantitative Techniques in Planning Research	UAP 5494	3	6.0
Fall 2012	Quantitative Techniques in Planning	UAP 5224	4	5.9
Spring 2013	Computational Applications in Planning	UAP 5114	3	5.8
Fall 2013	Quantitative Techniques in planning	UAP 5224	4	5.9
Spring 2014	Computational Applications in Planning	UAP 5114	4	5.9

Spring 2014	Advanced Quantitative Techniques in Planning Research	UAP 5494	3	6.0
Spring 2014	Practicum Problem	UAP 5804	2	6.0
Fall 2014	Quantitative Techniques in planning	UAP 5224	4	NA
Fall 2014	Principles of Disaster Resilience and Risk Management	GRAD 5134	3	NA
Spring 2015	Computational Applications in Planning	UAP 5114	3	NA
Spring 2015	Advanced Quantitative Techniques in Planning Research	UAP 5494	3	NA

++: Evaluation scores were measured using the old system where the highest possible score is 4.

** Denotes a course that has not been previously taught in the department.

GRADUATE STUDENTS COMMITTEES

Name	Faculty Role	Degree Sought	Topic	Year of Graduation
Rongrong Wei	Co-Chair	Ph.D. in Planning Governance and Globalization	Coastal resilience, governance, political economy	In progress
Sanam Aksha	Member	Ph.D. in Geospatial and Environmental Analysis	Multi-hazards vulnerability assessment	In progress
William Drake	Chair	Ph.D. in Planning, Governance and Globalization	Vulnerability assessment, climate adaptation planning, organizational learning	In progress
Anamaria Bukvic**	Member	Ph.D. in Planning, Governance and Globalization	Climate migration, climate adaptation planning	2012
Veronica Arroyave**	Member	Ph.D. in Planning, Governance and Globalization	Network theory, disaster response, public health	2013
Monica Licher	Member	Ph.D. in Planning, Governance and Globalization	Storm water management	2014 ⁺⁺
Min Jea Suh	Member	Ph.D. in Environmental Design and Planning	Green buildings	2015
Yehyun An	Member	Ph.D. in Planning, Governance and Globalization	Capacity building, international development	2015

Kyle Redican	Member	Master of Urban and Regional Planning		In progress
Nathan Domme	Chair	Master of Urban and Regional Planning		In progress
Adam Mawyer	Chair	Master of Urban and Regional Planning		In progress
Julia Moeller	Chair	Master of Urban and Regional Planning		In progress
Allison Homer**	Chair	Master of Urban and Regional Planning		In progress
Neil Crescenti	Member	Master of Urban and Regional Planning		In progress
Tianjun Lu**	Member	Master of Urban and Regional Planning		In progress
Amanda McGee**	Chair	Master of Urban and Regional Planning	Food access, food planning	2015
Xiaoran Li	Chair	Master of Urban and Regional Planning	Land cover change, coastal vulnerability	2015
Jingyi Yin	Chair	Master of Urban and Regional Planning	Coastal hazards management	2015
Mark Chang**	Member	Master of Urban and Regional Planning	Economic development	2016 ⁺⁺
Kristin Radar**	Chair	Master of Urban and Regional Planning	Watershed analysis, forest planning, GIS	2014
Graham Owen**	Chair	Master of Urban and Regional Planning	Carlessness, evacuation planning	2014
Alexandra Thompson**	Member	Master of Urban and Regional Planning	Land use planning, ecosystem services, GIS	2014

Jorge Ventura**	Member	Master of Urban and Regional Planning	Infrastructure planning, international development	2014
Na Gao	Member	Master of Urban and Regional Planning	Public housing, affordable housing	2014
Rongrong Wei	Member	Master of Urban and Regional Planning	Compact growth evaluation	2014
Tiffany Luu**	Chair	Master of Urban and Regional Planning	Broadband planning, rural development	2013
Kelsey Fryling	Member	Master of Urban and Regional Planning	Broadband planning	2013
Emily Neal	Member	Master of Urban and Regional Planning	Infectious disease emergency management	2016++
Xusheng He	Member	Master of Urban and Regional planning	Transportation planning support system, GIS	2014++
Qingning Chen	Chair	Master of Urban and Regional Planning	Rural land use planning in China	2013
Renee LaSapio**	Member	Master of Urban and Regional Planning	Bike planning	2013
Xiaoxuan Peng	Chair	Master of Urban and Regional Planning	Land use planning	2013
Yuan Zhang	Member	Master of Urban and Regional Planning	Transportation planning	2013
Adam Lind	Member	Master of Urban and Regional Planning	Bike planning	2012
Cullen Meves**	Member	Master of Urban and Regional Planning	Planning technology, public participation	2012
Jed Grubbs**	Member	Master of Urban and Regional Planning	Green infrastructure	2012

Melissa Zilke**	Member	Master of Urban and Regional Planning	Affordable housing	2012
Michael Shoyer	Member	Master of Urban and Regional Planning	Public involvement using participatory photography	2012
Tommy Oravetz	Member	Master of Urban and Regional Planning	Green infrastructure	2012
Andrew Mendel	Chair	Master of Urban and Regional Planning	Land use planning	2010
Christopher Chop**	Member	Master of Urban and Regional Planning	Airport planning	2011
Dustin Aker**	Member	Master of Urban and Regional Planning	Community development	2011
Julie Chop	Member	Master of Urban and Regional Planning	Vulnerability assessment	2010
Lisa Koerner	Member	Master of Urban and Regional Planning	Coastal planning	2010
Elizabeth Stuecheli	Member	Master of Urban and Regional Planning	Global governance	2010
Megan Brady**	Member	Master of Urban and Regional Planning	Community planning, walkability	2010
Saritha Pandyat	Member	Master of Science in Civil Engineering	Campus emergency management	2011
Scott Lail	Member	Master of Urban and Regional Planning	Mega-church	2011
Sherman Taylor	Chair	Master of Urban and Regional Planning	Floodplain management	NA ^{^^}
Stephen Bzomowski	Member	Master of Urban and Regional Planning	Land use planning	2011

Swetha Kumar	Member	Master of Urban and Regional Planning	High-tech incubator	2011
Tommi Godwin**	Member	Master of Urban and Regional Planning	Climate change planning	2012
Nurmawati	Member	Master of Urban and Regional Planning	Green city	2010
William Drake	Chair	Master of Urban and Regional Planning	Brownfield development, GIS	2010
William Sutton	Chair	Master of Urban and Regional Planning	Flood hazards mitigation	2011

** denotes award winning students

^^ student withdrew from the program

SERVICES ACTIVITIES

SCIENTIFIC JOURNAL AD HOC REVIEWS
Journal of American Planning Association (JAPA) Journal of Planning Education and Research (JPER) Journal of Environmental Planning and Management (JEPM) Urban Studies Environment and Planning A (EPA) Environment and Planning B (EPB) Global Environmental Change Cities Disasters Risk Analysis Natural Hazards Review Environmental Management Earthquake Spectrum Land Use Policy Journal of Applied Geography, Natural Hazards Journal of Geography and Planning International Journal of Computers, Environment and Urban System International Journal of Mass Emergencies and Disasters
SCIENTIFIC PEER REVIEWS
Department of Homeland Security Science and Technology Directorate (S&T) Proposal Review Canada Social Sciences and Humanities Research Council Proposal Review Mississippi-Alabama Seat Grant Consortium Proposal Review

National PERISHIP Awards Proposal Review (Sponsored by a partnership between the National Science Foundation, University of Colorado Natural Hazards Center, Swiss Re, and the Public Entity Risk Institute)	
National Science Foundation (NSF) and the Louisiana Board of Regents' Louisiana Experimental Program To Stimulate Competitive Research Program (EPSCoR) Proposal Review	
Lincoln Institute of Land Policy Proposal Review	
Mid-America Earthquake Center Book Review Book Panel, Strategic Directions for Risk Modeling and Decision Support	
The International Association of Chinese Planners (IACP) Conference Paper Review	
The Association Collegiate of School of Planning (ACSP) Conference Paper Review	
COMMITTEES	
2015	College Committee – Performance Review Committee for the Associate Dean for Research, College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University, Blacksburg, VA
2015	College Committee – Chair , Performance Review Committee for the Institute of Policy and Governance, School of Public and International Affairs, College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University, Blacksburg, VA
2014 to 2015	Department Committee – Faculty Search Committee, Urban Affairs and Planning Program, Virginia Polytechnic Institute and State University, Blacksburg, VA
2013 to present	University Committee -- Interdisciplinary Graduate Education Program in Disaster Resilience and Risk Management (IGEP-DRRM) Executive Committee, Virginia Polytechnic Institute and State University, Blacksburg, VA
2013 to 2014	Department Committee – Faculty Search Committee, Center for Public Administration and Policy, Virginia Polytechnic Institute and State University, Blacksburg, VA
2012 to 2015	University Committee -- Graduate Curriculum Committee, Virginia Polytechnic Institute and State University, Blacksburg, VA
2012 to present	Department Committee -- Admission Committee, Master of Urban and Regional Planning Program, Urban Affairs and Planning Program, Virginia Polytechnic Institute and State University, Blacksburg, VA
2008 to present	University Committee -- Geospatial Information Technology Committee, Virginia Polytechnic Institute and State University, Blacksburg, VA
2007 to 2008	University Committee -- Intercampus Communication Network (ICCN) Vision Council, University of Illinois System, Urbana-Champaign, IL
2007 to 2008	College Committee -- Doctoral of Public Administration Committee, University of Illinois at Springfield, Springfield, IL

2006 to 2008	University Committee -- Committee for Collaborative Geospatial Research, University of Illinois at Springfield, Springfield, IL
2006 to 2008	Department Committee -- Executive Committee, Department of Environmental Studies, University of Illinois at Springfield, Springfield, IL

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Planning Association (APA)
 American Association of Geographer (AAG)

MEDIA INTERVIEWS AND REPORTS

- 2014 “Faculty gain insights from Southeast Asia.” *OutBursts – A Publication of Outreach and International Affairs*.
- 2012 “Summer Scholars Program Promotes Team Research and Proposal Development.” *Virginia Tech News*.
- 2011 ++“Be Prepared: Disaster Risk in Asia.” *Development Asia Magazine*.
- 2010 ++“After the Aftermath.” *Miller-McCune Magazine*.
- 2009 “Virginia Tech students make Roanoke their laboratory.” *Roanoke Times*.
- 2009 NewsLeader.com reported on the student Brownfield project for the City of Roanoke.
- 2009 “Hazard and Disaster Experts Yang Zhang, Patrick Robert Named Next Generation Fellows.” *Virginia Tech News*.

++ denotes media interviews