

Laura Kathryn Siebeneck

Department of Emergency Management and Disaster Science
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Education

- 2010 Ph.D. (Geography), University of Utah, Salt Lake City, Utah;
- 2007 M.S. (Geography), University of Utah, Salt Lake City, Utah;
- 2005 B.S. (Physical Geography) & Minor (English), Texas State University, San Marcos, Texas.

Research and Teaching Interests

Hazards, Evacuation and Return-Entry Processes, Mitigation, Emergency Management, Geographic Information Science (GIS), Statistics, Spatial Analysis,

Academic Appointments

- 2016- Present Associate Professor, Department of Emergency Management and Disaster Science, University of North Texas.
- 2015-2016 Program Coordinator, Emergency Administration and Planning Program. University of North Texas.
- 2011- Present Assistant Professor, Department of Public Administration. University of North Texas
- 2010-2011 Visiting Lecturer, Department of Public Administration. University of North Texas.
- 2006 – 2010 Research Assistant, Center for Natural and Technological Hazards, Department of Geography, University of Utah.
- 2005 Teaching Assistant, Geog 1300-World Regional Geography, Department of Geography, University of Utah
- 2005 Graduate Assistant, Department of Geography, University of Utah

Awards

- 2014 Fellowship Recipient. Enabling the Next Generation of Hazards and Disasters Researchers Fellowship Program. Sponsored by the National Science Foundation. November 2014- July 2016.
- 2014 Outstanding MPA Professor of the Year. Awarded by the Public Administration Student Association. March 2014.
- 2010 Outstanding Graduate Student Award. Department of Geography, University of Utah. April 2010.
- 2008 Jeanne X. Kasperson Student Paper Award. Association of American Geographers Hazards Specialty Group.

Journal Articles

- In Press Nicoll, K., Cova, T.J., Siebeneck, L.K., Martineau, E. Assessing "preparedness elevated": seismic risk perception and household adjustment in Salt Lake City, Utah. *Journal of Geography & Natural Disasters*.
- In Press Cova, T.J., Dennison, P.E., Li D., Drews, F.A., Siebeneck, L.K., Lindell, M.K. Warning triggers in environmental hazards: who should be warned to do what and when? *Risk Analysis*.
- 2016 Siebeneck, L.K. Examining Social, Physical, and Environmental Dimensions of Tornado Vulnerability in Texas. *Journal of Emergency Management* 14(2): 139-151.
- 2016 Andrew, S.A., Arlikatti, S., Siebeneck, L., Pongponrat, K., and Jaikampan, K. Factors explaining organizational resilience during the Thailand Floods of 2011: A test of bonding and bridging hypotheses. *Disasters* 40(1): 65-84.
- 2015 Siebeneck, L.K., Arlikatti, S., and Andrew, S.A. Using provincial baseline indicators to model geographic variations of disaster resilience in Thailand. *Natural Hazards*:79(2): 955-975.
- 2015 Drews, F.A., Siebeneck, L.K., Cova, T.J., and Musters, A. Information search and decision making in computer-based

- wildfire simulations. *Journal of Cognitive Engineering and Decision Making*, 9(3), 229-240.
- 2014 Drews, F.A., Musters, A., Siebeneck, L.K., and Cova, T.J. Environmental factors that influence wildfire protective-action recommendations. *International Journal of Emergency Management* 10(2):153-168.
- 2014 Siebeneck, L.K. and Cova, T.J. Risk communication after disaster: Re-entry following the 2008 Cedar River Flood. *Natural Hazards Review* 15(2):158-166.
- 2014 Richardson, B.K., Siebeneck, L.K., Shaunfield, S., and Kaszynski, B. “No man’s land” to “A stronger community”: Communitas as a theoretical framework for successful disaster recovery. *International Journal of Mass Emergencies and Disasters* 32(1):194-219.
- 2014 Lin, C., Siebeneck, L.K., Lindell, M.K., Prater, C.S., Wu, H., and Huang, S. Evacuees’ information sources and reentry decision making in the aftermath of Hurricane Ike. *Natural Hazards*. 70(1): 865-882.
- 2013 Siebeneck, L.K., Lindell, M.K., Prater, C.S., Wu, H.C., and Huang, S.K. Evacuees’ Reentry concerns and experiences in the aftermath of Hurricane Ike. *Natural Hazards*. 65(3): 2267-2286.
- 2013 Cova, T.J., Theobald, D.M., Norman III, J., and Siebeneck, L.K. Mapping wildfire evacuation vulnerability in the West. *Geoforum*, 78(2): 278-285.
- 2012 Huang, S.K., Lindell, M.K., Prater, C.S., Wu, H.C., and Siebeneck, L.K. Household evacuation decision-making in response to Hurricane Ike. *Natural Hazards Review*. 13:283-296.
- 2012 Siebeneck, L.K. and Cova, T.J. “Examining spatial and temporal variations in evacuee risk perception during the evacuation and return-entry process.” *Risk Analysis*. Vol. 32(9):1468-1480.
- 2011 Medina, R.M., Siebeneck, L.K., and Hepner, GF. A Geographic Information Systems (GIS) Analysis of Spatiotemporal Patterns of Terrorist Incidents in Iraq 2004-2009. *Studies in Conflict and Terrorism*, 34:862-882.
- 2009 Siebeneck, L.K., Medina, R.M., Yamada, I., and Hepner, G.F.

Spatial and temporal analyses of terrorist incidents in Iraq, 2004-2006. *Studies in Conflict and Terrorism* 32(7) 591-610.

2009 Cova, T.J., Drews, F.A., Siebeneck, L.K. and Musters, A. Protective actions in wildfires: evacuate or shelter-in-place? *Natural Hazards Review*. 10(4): 151-162.

2008 Siebeneck, L.K., and Cova, T.J. An assessment of the return-entry process for Hurricane Rita 2005. *International Journal of Mass Emergencies and Disasters*, 26(2): 91-111.

Book section

2010 Siebeneck, L.K. Hurricanes, risk and hazards, in Warf, B. (ed.) *Encyclopedia of Geography*, Thousand Oaks, CA: Sage.

Other Publications

2014 Siebeneck, L.K., Gaston, R*. Byerly, A**, Manandhar, R.***, Samuel, C**). Texas tornado hazard analysis. Report prepared for the Texas Department of Public Safety Division of Emergency Services. * *EM Consultant* ** *Graduate Student*

2014 Siebeneck, L.K. Tornado Hazards Website. Developed for the Texas Department of Public Safety Division of Emergency Services. Available at tornado.unt.edu

2008 Siebeneck, L.K. "Introduction" and "Floods" (along with Barjenbruch, K., McInerney, B. and Watanabe, J.) Chapters in *Utah Natural Hazards Handbook*, 2008. Utah Division of Homeland Security.

2008 Siebeneck, L.K. and Cova, T.J. "Risk perception associated with the evacuation and return-entry process of the Cedar Rapids, Iowa flood." Quick Response Research Report, Natural Hazards Center, University of Colorado, Boulder.

2008 Siebeneck, L.K. "What Utah can learn from Hurricane Ike." Invited guest column. *The Daily Utah Chronicle*. Sept. 22, 2008.

Conference Presentations

- 2016 Siebeneck, L.K.. Panelist, Developing and Sustaining Bachelors Level Emergency Management Programs. Emergency Management Higher Education Symposium. Emmitsburg, MD. June 6-9, 2016.
- 2016 Siebeneck, L.K. Returning after disaster: Developing a Theory of Ending Protective Actions. Poster presented at the Association of American Geographers Annual Meeting, San Francisco, CA. April 19, 2016.
- 2015 Siebeneck, L.K. Panelist, Time Management and Multiple Commitments. Bill Anderson Fund Student Council Workshop Series. November 7, 2015. Webinar.
- 2015 Siebeneck, L.K.. Returning after disaster: Issues, strategies, and future research directions. Presented at the Association of American Geographers Annual Meeting, Chicago, IL. April 21, 2015.
- 2015 Siebeneck, L.K. Invited Discussant. Jeanne X. Kasperson Student Presentation Awards Session. Presented at the Association of American Geographers Annual Meeting, Chicago, IL. April 21, 2015.
- 2014 Siebeneck, L.K. Accounting for observer bias in tornado risk and vulnerability assessments: The case of Texas tornadoes. Poster presented at the Natural Hazards Workshop, Broomfield, CO. June 22-25, 2014.
- 2014 Siebeneck, L.K. GIS and Disasters Roundtable. Convener and Chair. Natural Hazards Workshop, Broomfield, CO. June 22-25, 2014.
- 2014 Siebeneck, L.K., Simmons, K., Sutter, D. Texas Twister: Creating plausible worse-case scenarios of tornado causalities. Presented at the Association of American Geographers Annual Meeting, Tampa, FL. April 9, 2014.
- 2013 Siebeneck, L.K., Arlikatti, S., Andrew, S.A. The development of disaster resilience indicators and modeling in Thailand. Poster presented at the Natural Hazards Workshop, Boulder, CO. July 13 – July 16, 2013.

- 2013 Siebeneck, L.K., Arlikatti, S., Andrew, A., Pongporat, K., and Jaikampan, K. Cross Comparison of Disaster Resilience in Rural, Suburban, and Urban Communities in Thailand. Presented at the Association of American Geographers Annual Meeting, Los Angeles, CA, April 11, 2013.
- 2012 Siebeneck, L.K., and Arlikatti, S. Assessing Resilience Among Rural, Suburban, and Urban Communities Following the Thailand Floods. Presented at the International Research Committee on Disaster Researchers Meeting. Boulder, CO. July 17-18, 2012.
- 2012 Siebeneck, L.K., and Arlikatti, S. Research at the University of North Texas Emergency Administration and Planning Program, Department of Public Administration. Poster presented at the Natural Hazards Workshop, Boulder, CO. July 14-18.
- 2012 Siebeneck, L.K. One way out – Many ways home: Returning after disaster. Presented at the FEMA Region VI Annual Hazard Mitigation Conference, Denton, TX. May 2, 2012.
- 2012 Richardson, B.K (presenter), Siebeneck, L.K, Shaunfield, S. and Kasynski, B. I don't know what ya'll are gonna do but I'm gonna let our's in. Communitas as a theoretical framework for discussion recovery. Presented at the Southern States Communication Association Annual Conference. San Antonio, TX. April 2012
- 2012 Siebeneck, L.K. Do I make myself clear? Warning messages and household response. Presented at the Association of American Geographers Annual Meeting, New York, NY, Feb 25, 2012.
- 2012 Siebeneck, L.K. Returning after disasters: Current issues and future research directions. Presented at the National Evacuation Conference. New Orleans, LA. Feb 7-9, 2012.
- 2011 Siebeneck, L.K. Exploring academia's role in assisting local communities with the hazard mitigation planning process. Invited presentation at the FEMA Region VI Annual Hazard Mitigation Conference, Denton, TX. May 4 and 5, 2011.
- 2011 Siebeneck, L.K. Challenges getting back: Return issues following Hurricane Ike. Presented at the Association of American Geographers Annual Meeting, Seattle, WA, April 13, 2011.

- 2010 Siebeneck, L.K. Challenges getting back: Risk communication issues following disaster events. Presented at the Association of American Geographers Annual Meeting, Washington D.C., April 16, 2010.
- 2010 Siebeneck, L.K., Cova, T.J., Drews, F.A., and Musters, A. Evacuation and shelter-in-place in wildfires: The incident commander perspective. Invited presentation, 2010 Great Basin Incident Command Team Meetings, Reno, NV. April 6, 2010.
- 2009 Siebeneck, L.K. and Cova, T.J. Current Research at the Center for Natural and Technological Hazards. Poster presented at the Natural Hazards Workshop, University of Colorado, Boulder, Colorado. July 2009.
- 2009 Siebeneck, L.K. and Cova, T.J. Using GIS to explore evacuee behavior before, during and after the 2008 Cedar Rapids Flood. Presented at the Association of American Geographers Annual Meeting, Las Vegas, Nevada. March, 2009.
- 2009 Lindell, M.K (presenter)., Prater, C.S., Siebeneck, L.K. and Cova, T.J. Hurricane Ike Reentry. Presented at the National Hurricane Conference, Austin, TX. March 2009.
- 2008 Cova, T.J., Siebeneck, L.K., Drews, F.A, Musters, A. Evacuation and shelter-in-place in wildfires: The incident commander perspective.” Poster presented at the 2008 Pacific Fire Conference, San Diego California. December 2008.
- 2008 Siebeneck, L.K. and Cova, T.J. An assessment of the return-entry process for Hurricane Rita 2005. Presented at the Association of American Geographers Annual Meeting, Boston, MA April 2008.
- 2007 Siebeneck, L.K. and Cova, T.J. An assessment of the return-entry process for Hurricane Rita-2005. Presented at the Natural Hazards Workshop, University of Colorado, Boulder, Colorado. July 2007.
- 2004 Siebeneck (Chance), L.K. and Whittaker, E. Impact of Climate Change on Endangered Species in the Comal River. Texas State University, First Annual Geography Students Research Symposium: April 2004.

Grants

- 2017 Ukkusuri, S.; Sundaram, S., Lee, S., and Siebeneck, L.K. Critical Transitions in the Resilience and Recovery of Interdependent Social and Physical Networks. National Science Foundation . CRISP Type 2/Collaborative Research. Total Award: \$2,474,413; UNT Portion: \$270,211.00.
- 2013 Siebeneck, L.K. Tornado Hazard Analysis Mitigation Grant. Texas Department of Public Safety. \$60,000.
- 2013 Siebeneck, L.K. University of North Texas Research Initiation Grant. \$5987.39.
- 2012 Arlikatti, S. (PI), Siebeneck, L.K (Co-PI), and Andrew, S. (Co-PI) Assessing resiliency among rural, suburban, and urban communities following the Thailand Floods of 2011. National Science Foundation RAPID Grant. \$73,607.
- 2008 Siebeneck, L.K. and Cova, T.J. Quick Response Research Grant. Natural Hazards Center, University of Colorado. Boulder, Colorado. June 2008. \$3000.

Grants Submitted

- 2014 Lawton et al., Siebeneck, L.K, and Arlikatti, S. Project/Proposal Title: Hazards SEES: Preparedness, Mitigation, and Real-Time Response to Post-Wildfire Debris Flows and Floods within a Sustainability Framework. Submitted to the National Science Foundation, December 2014. Total Requested: \$2,000,000, UNT Portion \$210,685. Not funded.
- 2014 Phillips, B. (PI), Brotzge, J., Xue, M., Chandrasekar, C., Bardet, J., Seo, D.J, Siebeneck, L.K., and Simmons, K. ReNEWSI: Research Networks for Extreme Weather & Smart Infrastructure. Submitted to the National Science Foundation, April 2014. Total Requested: \$12,000,000. UNT portion: \$266,186. Not Funded.
- 2013 Medina, R.M. (PI), Pfoser, D., Crooks, A., Cobb, S., Siebeneck, L.K. Monitoring radical spatiotemporal narratives in open-source big data. Submitted to the National Institute of Justice, June 2013. Total Requested: \$850,601.84. UNT portion: \$25,000. Not Funded.

Courses Instructed

EAPD 3010	Introduction to Emergency Management, University of North Texas
EADP 3035	Hazard Mitigation and Preparedness, University of North Texas
EADP 2700	Images of Disaster in Film and Media, University of North Texas
EADP 4040	International Disasters - Peru, University of North Texas
EADP 4040	International Disasters, Nicaragua, University of North Texas
EADP 4080	Capstone Course, EADP, University of North Texas
PADM 5700	International Disasters – Peru, University of North Texas
PADM 5700	International Disasters – Nicaragua, University of North Texas
PADM 5700	Sustainability in a Changing World, University of North Texas
PADM 5700	Risk, Hazards, and Disasters, University of North Texas
PADM 5510	Administrative Research Methods II, University of North Texas
GEOG 1400	Human Geography, University of Utah
GEOG 3325	Introduction to Weather and Climate, University of Utah

Membership in Professional Organizations

2007-	Association of American Geographers (AAG) Hazards, Risk, and Disasters, GIS specialty groups.
2007- 2010	Member, Utah State Hazard Mitigation Team (SHMT).

Peer Reviewer Activities

Risk Analysis, Journal of Applied Geography, Policy Studies, Journal of Health Geographics, Professional Geographer, Natural Hazards Review, American Journal of Preventive Medicine, Society and Natural Resources, International Journal of Mass Emergencies and Disasters, Natural Hazards, Sustainability.

Book Proposal Reviewer

Spring 2013, Elsevier Inc.

Hazard Mitigation Plans

2012	Contributor. State of Utah Hazard Mitigation Plan
2011	Contributor. State of Utah Hazard Mitigation Plan.

2007

Contributor. State of Utah Hazard Mitigation Plan.

Dissertation Committees

Chair, Carlos Samuel, Graduated December 2014. “Roles, challenges, and successful outcomes: An exploration of the current status of hazard mitigation in local emergency management.”

Chair, Rejina Manandhar, Graduated December 2015. Return-entry Risk communication following Hurricane Sandy.

Committee Member, Heyide Killic, January 2015 – Present.

Committee Member, Laura Keyes, January 2015 – Present.

Ph.D. Student Annual Review Committee

Chair, Carlos Samuel, Annual Review Committee, 2012-2013

Chair, Wei Ning Wu, Annual Review Committee, 2011-2013

Chair, Kristina Cramb, Annual Review Committee, 2013-2014

Member, Aminata Sillah, Annual Review Committee, 2013-2014

Member, Julius Nukpezah, Annual Review Committee 2013

Chair, Rejina Manandhar, Annual Review Committee, 2013-Present

Member, Heyide Killic, Annual Review Committee, 2015- Present

Chair, Ismael Soulja, Annual Review Committee, 2015-Present

Software Proficiencies

ArcGIS / ArcMap, Spatial Analyst, SPSS, GWR, GeoDa, SatScan, CrimeStats, ENVI

Service to the Department

May 2016, City of Denton Disaster Exercise, Faculty POC

May 2015 - City of Denton Disaster Exercise, Faculty POC.

Fall Colloquium, Public Administration – Ph.D Workshop. Planning your research agenda for the first three years on the tenure track. Presentation October 24, 2014.

Summer 2014 – EADP First Flight Freshman Orientation Activity Coordinator.

May 2014 – City of Denton Disaster Exercise, Faculty POC.

Spring Colloquium, Public Administration- Ph.D. Workshop. How to give a professional research presentation (and what definitely not to do!) Presentation February 2014.

Fall 2013- Spring 2014. Member, Department Executive Committee.

Fall 2013 – Present. Department Representative, College Curriculum Committee.

Fall 2015, Fall 2013, Fall 2011. Member, Department P-CEC Committee.

Fall 2012, Fall 2011. UNT Preparedness Fair, EADP Table Organizer.

Fall 2011- Summer 2013, 2014- Present Member, CDPC.

Fall 2011 – Summer 2013. Department Elections Judge.

Summer 2011, Spring 2012 – Present. MPA Comprehensive Exam Grader.

Fall 2011. MPA Comprehensive Exam Coordinator

Summer 2011 and Fall 2012. MPA Graduation Address.

Service to the College

Summer 2014 – Committee Member, UNT PACS First Flight Freshman Orientation Committee.

Fall 2013- Present. Chair, PACS voting representative for the University Undergraduate Curriculum Committee.

Fall 2012- Spring 2013. Member, PACS Core Committee.

Fall 2011- Spring 2012. Member / Connector, UNT Serves.

Service to the University

Spring 2013-2015 Chair, UNT Sustainability Council's Leadership and Outreach Subcommittee.

Service to the Discipline

Spring 2015 – Present. Chair. (Elected) Hazards, Risk, and Disasters Specialty Group, Association of American Geographers.

Spring 2013 – Spring 2015. Director (Elected) Hazards, Risk, and Disasters Specialty Group, Association of American Geographers.

Spring 2014-2015. Gilbert F. White Award, Competition Reviewer.

Service to the Community

Spring 2013 – Present, Stakeholder Member, State Hazard Mitigation Team (Technical Group) and Reviewer of Plan Draft, Texas Division of Emergency Services State Hazard Mitigation Plan.