

Emma S. Spiro

CONTACT INFORMATION	Information School Mary Gates Hall, Ste. 370 Seattle, Washington 98195 USA	email: espiro@uw.edu phone: +1 (206) 616-7395 fax: +1 (206) 616-3152 http://faculty.washington.edu/espiro
RESEARCH AREAS	Social network analysis, mathematical sociology, computational social science, crisis informatics, social media, communication and information technology, computer-mediated communication, quantitative sociology and online data collection.	
CURRENT APPOINTMENTS	University of Washington , Seattle, WA <i>Assistant Professor, Information School</i>	
	University of Washington , Seattle, WA <i>Adjunct Assistant Professor, Department of Sociology</i>	
PRIOR APPOINTMENTS	University of Washington , Seattle, WA <i>Acting Assistant Professor, Information School</i>	September 2013 - December 2013
CURRENT AFFILIATIONS	<ul style="list-style-type: none">• Information School, University of Washington• Department of Sociology, University of Washington• Center for Statistics and the Social Sciences, University of Washington• Information and Society Center, Information School, University of Washington• Data Science and Analytics Lab, Information School, University of Washington• Social Media Lab, Information School, University of Washington	
EDUCATION	University of California , Irvine, CA <i>Ph.D., Sociology</i>	December 2013
	<i>Dissertation: Communication and Affective Dynamics During Crisis Events: Measuring the Public's Online Response</i> <i>Committee: Carter T. Butts (Chair), Katherine Faust, Padhraic Smyth</i>	
	<i>Examination Fields: Social Networks, Populations and Demography</i>	
	University of California , Irvine, CA <i>School of Social Sciences</i> <i>M.A., Mathematical Behavioral Sciences</i>	March 2011
	Pomona College , Claremont, CA <i>B.A., Applied Mathematics</i> <i>B.A., Science, Technology, and Society</i>	May 2007
	Mercer Island High School , Mercer Island, WA <i>Diploma</i>	June 2003
AWARDS & HONORS	Honorable Mention Paper <i>Top 5% at the 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) San Francisco, California.</i>	2016
	Distinguished Teaching Award Nominee <i>University of Washington</i>	2016
	Microsoft Research Social Computing Symposium <i>Invited Participant</i>	2014, 2015

Top 30 Thinkers Under 30
Pacific Standard Magazine: The Science of Society

April 2014

Best Student Paper Award

December 2012

Workshop on Social Network and Social Media Analysis: Methods, Models and Applications
26th Annual Conference on Neural Information Processing Systems, Lake Tahoe, Nevada

ACM Web Science 2012 Best Social Science Student Paper Award

June 2012

Northwestern University, Evanston, IL
Sponsored by Microsoft Research

Science, Technology and Society Thesis Prize

May 2007

Pomona College, Claremont, CA

GRANTS & OTHER
FUNDING

Spiro, Emma S. (PI) (07/2015-07/2018) “Mass Convergence of Attention During Crisis Events: Degree Dynamics and Emergency Response in Online Settings.” Army Research Office (ARO) Young Investigator Program: \$149,997.00.

Spiro, Emma S. (PI) and Kate Starbird (Co-PI). (09/2015-09/2016) “Detecting Misinformation Flows in Social Media Spaces During Crisis Events.” Microsoft Research Azure Research Award: \$20,000.00.

Starbird, Kate (PI) and **Emma S. Spiro** (Co-PI). (06/2015-09/2015) “CHS-Small: Research Experience for Undergraduates - Detecting Misinformation Flows in Social Media Spaces During Crisis Events.” National Science Foundation [#IIS-1541688]: \$31,450.00.

Starbird, Kate (PI), **Emma S. Spiro** (Co-PI), and Robert Mason (Co-PI). (09/2014-09/2016) “CHS-Small: Detecting Misinformation Flows in Social Media Spaces During Crisis Events.” National Science Foundation [#IIS-1420255]: \$467,629.00.

Spiro, Emma S. (Co-PI), Hedwig Lee (Co-PI), and Tyler McCormick (Co-PI). (2015) “Rethinking Data in Sociology Speaker Series.” Jointly Funded by the Information and Society Center (iSchool) and the Department of Sociology, University of Washington, and Context Relevant. \$15,000.00.

JOURNAL
ARTICLES

Fitzhugh, S.M., C.B. Gibson, **Emma S. Spiro**, and C.T. Butts. (2016) “Spatio-temporal filtering techniques for the detection of disaster-related communication.” *Social Science Research*.

Reed, P., **Emma S. Spiro**, and C.T. Butts. (2016) “Thumbs up for privacy?: Differences in online self-disclosure behavior across national cultures.” *Social Science Research*.

Spiro, Emma S., Z.W. Almquist and C.T. Butts. (2016) “The Persistence of Division: Geography, Institutions, and Online Friendship Ties.” *Socius: Sociological Research for a Dynamic World*.

Spiro, Emma S. (2016) “Research opportunities at the intersection of social media and survey data.” *Current Opinion in Psychology, Special Issue on Social Media & Applications to Health Behavior*. Vol 9, pp. 67-71.

Sutton, J., C.B. Gibson, N.E. Phillips, **Emma S. Spiro**, C. League, B. Johnson, S.M. Fitzhugh, and C.T. Butts. (2015) “A cross-hazard analysis of terse message retransmission on Twitter.” *Proceedings of the National Academy of Sciences*, 112(48) 14793-14798; doi:10.1073/pnas.1508916112.

McCormick, T., H. Lee, N. Cesare, A. Shojaie and **Emma S. Spiro**. (2015) “Using Twitter for Demographic and Social Science Research: Tools for Data Collection.” *Sociological Methods and Research*. doi:10.1177/0049124115605339.

Sutton, J., C.B. Gibson, **Emma S. Spiro**, C. League, S. Fitzhugh, and C.T. Butts. (2015) “What it Takes to Get Passed On: Message Content, Style, and Structure as Predictors of Retransmission in the Boston Marathon Bombing Response.” *PLoS ONE* 10(8): e0134452.

Sutton, J., **Emma S. Spiro**, B. Johnson, S. Fitzhugh, C.B. Gibson, and C.T. Butts. (2014) "Warning Tweets: Serial Transmission of Warning Messages During a Disaster Event." *Information, Communication, and Society*, Vol. 17, Issue 6.

Sutton, J., **Emma S. Spiro**, M. Greczek, B. Johnson, S. Fitzhugh, and C.T. Butts. (2013) "Tweeting the Spill." *International Journal of Information Systems for Crisis Response and Management*. 5(1), 1-21, pp. 58-76.

Spiro, Emma S., R. M. Acton, and C.T. Butts. (2013) "Extended Structures of Mediation: Re-examining Brokerage in Dynamic Networks." *Social Networks*, Vol. 35, pp. 130-143.

Eppstein, D. and **Emma S. Spiro**. (2012) "The h-Index of a Graph and its Application to Dynamic Subgraph Statistics." *Journal of Graph Algorithms and Applications*. Vol. 16, no. 2, pp. 543-567.

REFERRED
CONFERENCE
PAPERS & NOTES

Zeng, L., K. Starbird, and **Emma S. Spiro**. (2016) "#Unconfirmed: Classifying Rumor Stance in Crisis-Related Social Media Messages." *In Proceedings of the International Conference on Web and Social Media (ICWSM), Poster Paper*. Cologne, Germany.

Spiro, Emma S., J.N. Matias, and A. Monroy-Hernández. (2016) "Networks of Gratitude: Structures of Thanks and User Expectations in Workplace Appreciation Systems" *In Proceedings of the International Conference on Web and Social Media (ICWSM)*. Cologne, Germany.

Majid, A.M. and **Emma S. Spiro** (2016) "Crisis in a Foreign Language: Emergency Services and Limited English Populations." *In Proceedings of the International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Rio de Janeiro, Brazil.

Starbird, K., **Emma S. Spiro**, I. Edwards, K. Zhou, J. Maddock, and S. Narasimhan. (2016) "Could this be true? I think so! Expressed Uncertainty in Online Rumoring." *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*. San Jose, California.

Andrews, C., E. Fichet, S. Ding, **Emma S. Spiro** and K. Starbird. (2016) "Keeping Up with the Tweet-dashians: The Impact of 'Official' Accounts on Online Rumoring." *In Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. San Francisco, California. [Honorable Mention, \(Top 5%\)](#)

Arif, A., K. Shanahan, R. Chou, S. Dosouto, K. Starbird, and **Emma S. Spiro**. (2016) "How Information Snowballs: Exploring the Role of Exposure in Online Rumor Propagation." *In Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. San Francisco, California.

Zeng, L., Starbird, K., and **Emma S. Spiro**. (2016) "Rumors at the Speed of Light? Modeling the Rate of Rumor Transmission during Crisis." *In Proceedings of the 49th Hawaii International Conference on Systems Science (HICSS)*. IEEE Computer Society. Kauai, Hawaii.

Starbird, K., **Emma S. Spiro**, A. Arif, R. Chou, S. Narasimhan, J. Maddock, K. Shanahan and J. Robinson. (2015) "Expressed Uncertainty and Denials as Signals of Online Rumoring." *In Proceedings of the Collective Intelligence Conference*. Santa Clara, California.

Spiro, Emma S., J. Sutton, S. Fitzhugh and C.T. Butts. (2014) "Online Communication Dynamics During Natural Hazard Events." *In Proceedings of the International Communication Association Annual Conference*. Seattle, Washington.

Sutton, J., **Emma S. Spiro**, B. Johnson, S. Fitzhugh, C.B. Gibson and C.T. Butts. (2014) "Terse Message Amplification in the Boston Bombing Response." *In Proceedings of the International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. University Park, Pennsylvania.

Rzeszutarski, J., **Emma S. Spiro**, J. Matias, A. Monroy-Hernandez, M. Morris. (2014) "Is Anyone Out There? Unpacking Q&A Hashtags on Twitter." *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems, Note*. Toronto, Canada.

Spiro, Emma S., J. Sutton, S. Fitzhugh, M. Greczek, N. Pierski, and C.T. Butts. (2012) “Rumoring During Extreme Events: A Case Study of Deepwater Horizon 2010.” *In Proceedings of the ACM Web Science 2012 Conference (WebSci12)*. Evanston, Illinois. [Best Social Science Student Paper Award](#).

Sutton, J., **Emma S. Spiro**, M. Greczek, B. Johnson, S. Fitzhugh, and C.T. Butts. (2012) “Connected Communications: Network Structures of Official Communications in Disaster.” *In Proceedings of the 9th International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Vancouver, Canada.

Eppstein, D. and **Emma S. Spiro**. (2009) “The h-Index of a Graph and its Application to Dynamic Subgraph Statistics.” Algorithms and Data Structures Symposium (WADS), Banff, Canada. *Lecture Notes in Computer Science* 5664, pp. 278-289.

BOOK CHAPTERS Almquist Z. W., **Emma S. Spiro**, and C.T. Butts. (In Press) “Shifting Attention: Modeling Follower Relationship Dynamics among US Emergency Management-related Organizations.” *Social Networks in Disasters* Eds. Eric Jones and AJ Faas.

Spiro, Emma S. (Under contract) “Online Communication During Crisis Events.” Eds. B. Foucault-Wells and S. González-Bailón. *Communication Science in the Digital Age: New Frontiers in Theory and Research*.

WORKSHOP PAPERS Williams, J. A. and **Emma S. Spiro**. (2015) “Tweeting the Japanese General Election of 2014 - A First Look.” First Annual Conference on Voting, Elections, and Electoral Systems, University of Washington. Seattle, Washington.

Spiro, Emma S., C. L. DuBois, and C.T. Butts. (2012) “Waiting for a Retweet: Modeling Waiting Times in Information Propagation.” *Workshop on Social Network and Social Media Analysis: Methods, Models and Applications. Neural Information Processing Systems (NIPS)*. Lake Tahoe, NV. [Best Student Paper Award](#).

WORKING PAPERS & TECHNICAL REPORTS Reeder, H. T., T. McCormick, and **Emma S. Spiro**. (2014) “Online Information Behaviors During Disaster Events: Roles, Routines, and Reactions.” *Center for Statistics and the Social Science Working Paper No. 144*, University of Washington.

GENERAL AUDIENCE PUBLICATIONS Farnham, S., M. Lahav, A. Monroy-Hernández, and **Emma S. Spiro**. (2015) “Neighborhood Community Well-being and Social Media” Available at: <http://bit.ly/1JMeXtT>

Monroy-Hernández, A. and **Emma S. Spiro**. (2013) “How Brazilian protesters are using Twitter.” Guardian Datablog. <http://www.guardian.co.uk/news/datablog/2013/jul/04/>

Monroy-Hernández, A. and **Emma S. Spiro**. (2013) “How is the Brazilian Uprising Using Twitter?” Microsoft Research FUSELabs Blog. <http://blog.fuselabs.org/>

Sutton, J., B. Johnson, **Emma S. Spiro**, and C.T. Butts. (2013) “Tweeting What Matters: Information, Advisories, and Alerts Following the Boston Marathon Events.” Online Research Highlight. <http://heroicproject.org>

Sutton, J., **Emma S. Spiro**, B. Johnson, S. Fitzhugh, and C.T. Butts. (2013) “Tweeting Boston: The Influence of Microstructure in Broadcasting Messages through Twitter.” Online Research Highlight. <http://heroicproject.org>

Sutton, J., **Emma S. Spiro**, B. Johnson, and C.T. Butts. (2012) “Following the Bombing.” Online Research Highlight. <http://heroicproject.org>

Spiro, Emma S., J. Sutton, B. Johnson, S. Fitzhugh, and C.T. Butts. (2012) “Superstorm Sandy: Exploring the Twitter Response.” Online Research Highlight. <http://heroicproject.org>

Spiro, Emma S., J. Sutton, B. Johnson, S. Fitzhugh, and C.T. Butts. (2012) “HEROIC Team Explores Waldo Canyon Wildfire in Colorado.” Online Research Highlight. <http://heroicproject.org>

INVITED TALKS

Spiro, Emma S. (May, 2016) “Networks of Gratitude: Structures of Thanks in Workplace Appreciation Systems.” University Konstanz. Konstanz, Germany.

Spiro, Emma S. (May, 2016) “#Unconfirmed: Online Social Behavior During Crisis Events.” Workshop on Computational Social Science. University Konstanz. Konstanz, Germany.

Spiro, Emma S. (April, 2016) “Understanding Social Behavior During Crisis Events using Digital Traces.” Symposium on New Directions in Computational Social Science and Data Science. Simons Institute, University of California. Berkeley, California.

Spiro, Emma S. (January, 2016) “Rumoring on Social Media During Crisis” UW Undergraduate Research Program, Research Exposed!: Approaches to Inquiry. University of Washington. Seattle, Washington.

Spiro, Emma S., Lee, Cesare, and McCormick. (November, 2014) “Taming ‘Data in the Wild’: The Promises and Pitfalls of Big Social Data for Demographic Research.” 6th International Conference on Social Informatics (SocInfo) Workshop: Social Scientists Working with Start-ups. Barcelona, Spain.

Spiro, Emma S. (October, 2014) “Online Information Behaviors During Disaster Events: Roles, Routines, and Reactions.” Center for Statistics and the Social Science Seminar. University of Washington. Seattle, Washington.

Spiro, Emma S., (February, 2014) “Online Communication Dynamics During Natural Hazard Events.” Seminar on Cultural, Organizational, Political and Economic Sociology. Department of Sociology, University of Washington. Seattle, Washington.

Spiro, Emma S. (July, 2013) “Hazard Warnings and Alerts: Content, Style, and Structure.” Microsoft Research and University of Washington Workshop. Toward a Smarter Society: The Role of Computational Social Science. Bellevue, Washington.

Spiro, Emma S. (April, 2013) “Online Communication and Information-related Behaviors During Emergencies and Disasters.” School of Information, University of Washington, Seattle, Washington.

Spiro, Emma S. (January, 2011) “Extended Structures of Mediation: Re-examining Brokerage in Dynamic Networks.” Conference on Behavior In and On Networks, Institute for Mathematical Behavioral Sciences, University of California, Irvine, California.

CONFERENCE
PRESENTATIONS

Almquist, Z.W. and Emma S. Spiro. (August, 2016) “The Structure of Activity-based Online Personal Networks.” Joint Statistical Meetings. Chicago, Illinois.

Spiro, Emma S. and Almquist. (August, 2016) “Gender-based Opportunity Structures in an Activity-Based Online Social Networks.” American Sociological Association: Rationality and Society Section, Session on Rationality and Social Structure. Seattle, Washington.

Zeng, Nied, Walls, Robinson, Starbird and Emma S. Spiro (June, 2016) “Automatic Misinformation Detection on Social Media Spaces during Crisis Events.” 2nd Annual International Conference on Computational Social Science, Evanston, Illinois.

Lee, McCormick, Emma S. Spiro, and Cesare. (June, 2016) “Exploring Relationship Dynamics between Citizens and the Police Via Twitter.” 2nd Annual International Conference on Computational Social Science, Evanston, Illinois.

Spiro, Emma S. and Almquist. (April, 2016) “Mechanisms of Tie Formation in Activity-based Online Social Networks.” 36th Sunbelt Network Conference (INSNA). Newport Beach, California.

Almquist and Emma S. Spiro. (April, 2016) "Personal Network Structures in Activity-based Online Social Networks." 36th Sunbelt Network Conference (INSNA). Newport Beach, California.

Zeng, Starbird and Emma S. Spiro. (April, 2016) "Modeling rumor diffusion on social media during crisis events." 36th Sunbelt Network Conference (INSNA). Newport Beach, California.

Walls, Starbird, and Emma S. Spiro (April, 2016) "A Network-based Approach to Scoping Rumor Stories in Social Media." 36th Sunbelt Network Conference (INSNA). Newport Beach, California.

Espinoza, Phillips, Gibson, League, Johnson, Emma S. Spiro, Fitzhugh, Sutton and Butts. (April, 2016) "Emergency Management Organizations' Twitter Follower Growths During and After Disasters." 36th Sunbelt Network Conference (INSNA), Poster Presentation. Newport Beach, California.

Lee, McCormick, Emma S. Spiro, and Cesare. (March, 2016) "Exploring Relationship Dynamics Between Citizens and the Police Via Twitter." Population Association of America Annual Meeting. Washington, D.C.

Spiro, Emma S. and Almquist. (August, 2015) "Social Interaction in Activity-Based Online Communities." Joint Statistical Meetings. Seattle, Washington.

Phillips, Fitzhugh, Sutton, Butts, Emma S. Spiro, Gibson, League, and Johnson. (July, 2015) "HEROIC: Hazards, Emergency Response, and Online Informal Communication." 40th Annual Natural Hazards and Applications Workshop. Broomfield, Colorado.

Walls, L., Maddock, Starbird, and Emma S. Spiro. (July, 2015). "What Should Count?: A Quantitative Approach to Scoping Rumors in Social Media." Social Media and Society Conference 2015, Toronto, Ontario, Canada.

Spiro, Emma S. and Almquist. (June, 2015) "Demographic Opportunity Structures in Activity-Based Online Social Networks." 35th Sunbelt Network Conference (INSNA), Brighton, England.

Phillips, Sutton, Fitzhugh, League, Johnson, Emma S. Spiro, Gibson and Butts. (June, 2015) "Emergency Management Interorganizational Networks." 35th Sunbelt Network Conference (INSNA), Brighton, England.

Cesare, Lee, McCormick, Morris, Shojaie, Emma S. Spiro. (June, 2015) "Redrawing the 'Color Line': Examining Racial Segregation in Associative Networks On Twitter." 35th Sunbelt Network Conference (INSNA), Brighton, England.

Starbird, Emma S. Spiro, Arif, Chou, Narasimhan, Maddock, Shanahan and Robinson. (May, 2015) "Expressed Uncertainty and Denials as Signals of Online Rumoring." Collective Intelligence Conference. Santa Clara, California.

Walls, Starbird, and Emma S. Spiro (May, 2015) "Did You Hear about the Computer that Can Detect Rumors?: An Algorithmic Approach to Rumor Detection." Poster Presentation, Undergraduate Research Symposium, University of Washington.

Zhu and Emma S. Spiro (May, 2015) "Exploring Young Adults' Drinking Behavior via Digital Traces on Social Media." Poster Presentation, Undergraduate Research Symposium, University of Washington.

Bill, Zagheni, and Emma S. Spiro (May, 2015) "The Exploration of Leadership Structure within #YesAllWomen." Poster Presentation, Undergraduate Research Symposium, University of Washington.

Cesare, Emma S. Spiro, McCormick and Lee. (April, 2015) "Self-Presentation and Information Disclosure on Twitter: Understanding Patterns and Mechanisms along Demographic Lines." Population Association of America Annual Meeting. San Diego, California.

Reeder, McCormick, and Emma S. Spiro. (April, 2015) "Online Information Behaviors During

Disaster Events: Roles, Routines, and Reactions.” Population Association of America Annual Meeting. San Diego, California.

Reed, Emma S. Spiro, and Butts. (March 2015) “Using Facebook Data to Examine Culture and Self-Disclosure Behaviors.” iConference Poster. Newport Beach, California.

Fitzhugh, Emma S. Spiro and Butts. (August, 2014) “Did You Feel it? Spatial Filtering Techniques for Detection of Local Disaster Events” American Sociological Association: Section on Mathematical Sociology, San Francisco, California.

Fitzhugh, Sutton, Butts, Emma S. Spiro, Gibson, League, and Johnson (June, 2014) “Project HEROIC: Hazards, Emergency Response, and Online Informal Communication.” 39th Annual Natural Hazards and Applications Workshop. Broomfield, Colorado.

Spiro, Emma S., Fitzhugh, Sutton, and Butts. (May, 2014) “Online Communication Dynamics During Natural Hazard Events” International Communication Association: Section for Communication and Technology. Seattle, Washington.

Spiro, Emma S. and Monroy-Hernández. (February, 2014) “A Tale of Two Social Movements.” 34th Sunbelt Network Conference (INSNA), St. Pete Beach, Florida.

Spiro, Emma S. and Butts. (August, 2013) “When Bad Things Happen To ‘Good’ People: Online Communication Dynamics During Natural Hazard Events” American Sociological Association: Regular Section on Disasters, New York, New York.

Gibson, Emma S. Spiro, Fitzhugh, and Butts. (August, 2013) “Estimating Active User Population Dynamics in Online Social Networks.” American Sociological Association: Section on Methodology Paper Session, New York, New York.

Sutton, Johnson, Emma S. Spiro, Gibson, Fitzhugh, and Butts. (August, 2013) “Warning Tweets: Serial Transmission of Warning Messages during a Disaster Event.” American Sociological Association: Regular Section on Disasters, New York, New York.

Gibson, Emma S. Spiro, and Butts. (May, 2013) “Estimating Active User Population Dynamics in Online Social Networks.” 33rd Sunbelt Network Conference (INSNA), Hamburg, Germany.

Almquist, Emma S. Spiro, and Butts. (May, 2013) “Missing Data Methods for Dynamic Network logistic-Regression.” 33rd Sunbelt Network Conference (INSNA), Hamburg, Germany.

Spiro, Emma S., and Butts. (May, 2013) “Degree dynamics: spikes and decay in attention relationships.” 33rd Sunbelt Network Conference (INSNA), Hamburg, Germany.

Spiro, Emma S., DuBois, and Butts. (2012) “Waiting for a Retweet: Modeling Waiting Times in Information Propagation.” Poster presentation. Workshop on Social Network and Social Media Analysis: Methods, Models and Applications. Neural Information Processing Systems (NIPS). Lake Tahoe, Nevada.

Spiro, Emma S., Pierski, and Butts. (August, 2012) “Mapping an Ecology of Privacy: A Cross-national Comparison of Control of Self-Presentation Online.” American Sociological Association: Section on Communication and Information Technology, Denver, Colorado.

Spiro, Emma S., Sutton, Johnson, and Butts. (August, 2012) “Diffusion of Innovation Among Government Organizations: Asymmetric Effects of Organizational Lineage on Social Media Adoption.” Fifth Joint Japan-North America Mathematical Sociology Conference. Denver, Colorado.

Spiro, Emma S., Sutton, Fitzhugh, Greczek, Pierski, and Butts. (June, 2012) “Rumoring During Extreme Events: A Case Study of Deepwater Horizon 2010.” ACM Web Science 2012 Conference (WebSci12). Evanston, Illinois.

Spiro, Emma S., Sutton, and Butts. (June, 2012) “Shifting Attention: The Effect of External Stimuli

on Social Ties Among Emergency Management Organizations.” Political Networks Conference, Boulder, Colorado.

Johnson, Sutton, Emma S. Spiro, Fitzhugh, and Butts. (June, 2012) “Technology Lineage and Adoption: Diffusion of Microblog Technologies Among Government Organization.” Political Networks Conference, Boulder, Colorado.

Spiro, Emma S., Sutton, Fitzhugh, and Butts. (March, 2012) “A Microstructure Topology for Hyperedge Communication Events.” 32nd Sunbelt Network Conference (INSNA), Redondo Beach, California.

Sutton, Emma S. Spiro, Johnson, Greczek, Fitzhugh, and Butts. (March, 2012) “Connected Communications: Network Structures of Official Communications in Disaster.” 32nd Sunbelt Network Conference (INSNA), Redondo Beach, California.

Johnson, Sutton, Emma S. Spiro, Fitzhugh, and Butts. (March, 2012) “Disruptive Diffusion: Adoption of Microblog Technologies Among Urban Organizations.” 32nd Sunbelt Network Conference (INSNA), Redondo Beach, California.

Spiro, Emma S., Almquist, and Butts. (August, 2011) “Maintaining Ties from Coast to Coast: Selective Mixing Among U.S. Universities on Facebook.” American Sociological Association: Section on Methodology Paper Session, Las Vegas, Nevada.

Spiro, Emma S., Butts, Sutton, Greczek, Fitzhugh, and Pierski. (July, 2011). “Informal Online Communication in the Deepwater Horizon Disaster.” Poster presentation, 2011 Natural Hazards Research and Applications Workshop, Broomfield, Colorado.

Spiro, Emma S., Butts, Sutton, Greczek, Pierski, and Fitzhugh. (June, 2011) “Rumoring During Extreme Events: Deepwater Horizon 2010.” Poster Presentation, Political Networks Conference, Ann Arbor, Michigan.

Spiro, Emma S., Acton, Sutton, Greczek, Pierski, Fitzhugh, and Butts. (February, 2011) “Rumoring in Informal Online Communication Networks.” 31st Sunbelt Network Conference (INSNA), St. Pete Beach, Florida.

Spiro, Emma S., Acton, and Butts. (August, 2010) “Extended Structures of Mediation: Re-examining Brokerage in Dynamic Networks.” American Sociological Association: Section on Mathematical Sociology Paper Session, San Francisco, California.

Acton, Emma S. Spiro, and Butts. (July, 2010) “Change and External Events in Online Networks.” 30th Sunbelt Network Conference (INSNA), Riva del Garda, Italy.

Spiro, Emma S., Acton, and Butts. (July, 2010) “Extended Structures of Mediation: Re-examining Brokerage in Dynamic Networks.” 30th Sunbelt Network Conference (INSNA), Riva del Garda, Italy.

Spiro, Emma S., Acton, and Butts. (August, 2009) “Brokerage Roles in the Immediate Wake of Hurricane Katrina.” ASA Roundtable: Networks and Organizations, San Francisco, California.

Spiro, Emma S., Acton, and Butts. (March, 2009) “Patterns of Coordination: Brokerage Roles in the Immediate Wake of Hurricane Katrina.” 29th Sunbelt Network Conference (INSNA), San Diego, California.

FELLOWSHIPS

Graduate Student Fellow

2012 - 2013

*Center for Networks and Relational Analysis
University of California, Irvine, CA*

Honorable Mention, Graduate Research Fellowship

2009

National Science Foundation, Arlington, VA

	Social Science Merit Fellowship <i>University of California, Irvine, CA</i>	2008-2012
	Social Science Tuition Fellowship <i>University of California, Irvine, CA</i>	2008-2009
PRESS	Official Engagement Stops Viral Rumors from Spreading on Social Media Eyragon Eidam, govTech http://bit.ly/22pm1EB	April 05, 2016
	Official responses can beat down Twitter rumors, UW study finds Rachel Lerman, The Seattle Times http://bit.ly/1oRGndv	April 04, 2016
	The Twittersphere does listen to the voice of reason sometimes Jennifer Langston, UW Today http://bit.ly/1RPsw3j	April 04, 2016
	The 30 Top Thinkers Under 30 Avital Andrews, Pacific Standard Magazine http://www.psmag.com/?p=76801	April 10, 2014
	Leadership Lessons from the Boston Marathon Attack Leslie Gaines-Ross and Peter Duda, Big Ideas Blog, MIT Sloan Management Review http://sloanreview.mit.edu/article/leadership-lessons-from-the-boston-marathon-attack/	April 08, 2014
	A Hyperlocal Twitter Filter That Gets Neighbors Talking To Each Other Jessica Leber, Co.Exist http://www.fastcoexist.com/3017494/	September 20, 2013
	Researchers Study Waldo Canyon Fire Twitter Activity Kim Stephens, idisaster 2.0 http://idisaster.wordpress.com/2012/09/04/	September 04, 2012
	Twitter Trends in Disaster Response Adam Crowe, Emergency Management Blogs: Disasters 2.0 http://www.emergencymgmt.com/emergency-blogs/disasters20/	September 04, 2012
	UCCS, UC Irvine researchers win grant to study disaster communication Rebecca Tonn, The Colorado Springs Business Journal http://csbj.com/2011/02/01/	February 01, 2011
PROFESSIONAL NON-ACADEMIC EXPERIENCE	FUSE Labs, Microsoft Research , Redmond, WA <i>Research Intern, Mentor: Shelly Farnham, Ph.D.</i>	May 2013 - August 2013
	Excell Data Corporation: Microsoft , Redmond, WA <i>Contractor: Usability Research and Analysis</i>	April 2005 - April 2006
	Microsoft , Redmond, WA <i>Usability Engineer Intern, Mentor: Peter Koss-Nobel</i>	June 2004 - August 2004
SERVICE	Rethinking Data Science for the Social Sciences Speaker Series University of Washington <i>Co-organizer</i>	2015-2016
	Response Risk Communication Tools Peer-Review Workshop Coastal Response Research Center, University of New Hampshire <i>Invited Reviewer</i>	July 2013

JOURNAL PEER REVIEW

- American Journal of Sociology
- American Sociological Review
- Computers in Human Behavior
- EPJ Data Science
- Information, Communication and Society
- Journal of Adolescent Research
- Journal of Computer Mediated Communication
- PLoS ONE
- New Media and Society
- Public Administration
- The Sociological Quarterly

PROGRAM CHAIR

- 8th International Conference on Social Informatics (SocInfo) 2016
Social Science Program Chair

PROGRAM COMMITTEE

- Hawaiian International Conference on System Sciences (HICSS): 2017
“Government and Disaster Resilience” Electronic Government: Minitrack
- 2nd International Conference on Computational Social Science (IC2S2) 2016
- 10th International AAAI Conference on Web and Social Media (ICWSM) 2016
- Hawaiian International Conference on System Sciences (HICSS): 2016
“Resilience Against Crises and Disasters,” Electronic Government: Minitrack
- 7th International Conference on Social Informatics (SocInfo) 2015
- 6th International Conference on Social Informatics (SocInfo) 2014
- 6th International Conference on Social Informatics (SocInfo): 2014
Whats in a Dyad? Interaction and Exchange in Social Media Workshop
- 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining: 2014
Workshop on Learning about Emergencies from Social Information (KDD-LESI)

CONFERENCE PEER REVIEW

- Hawaiian International Conference on System Sciences (HICSS) 2015, 2016
- ASIST Annual Meeting 2014, 2015, 2016
- ACM CHI Conference on Human Factors in Computing Systems 2015, 2016
- ACM Conference on Computer Supported Cooperative Work 2014, 2015, 2016
- International Conference on Information Systems for Crisis Response and Management (ISCRAM): Social Media Track 2013, 2014, 2015

INFORMATION SCHOOL, UNIVERSITY OF WASHINGTON

- Member, Faculty Search Committee: Data Ethics 2015-Present
- Member, PhD Admissions Committee 2015-Present
- Member, Informatics Program Committee 2014-2015
- Member, MSIM Specialty Working Group: Data Science and Analytics 2013-2015
- Member, Informatics Admissions Committee 2013-2014
- Member, MLIS Admissions Committee 2013-2014

PROFESSIONAL MEMBERSHIPS

- ACM SIGCHI
- American Sociological Association (ASA)
- American Statistical Association (ASA)
- Association for the Advancement of Artificial Intelligence (AAAI)
- International Communication Association (ICA)
- International Network for Social Network Analysis (INSNA)

- Population Association of America (PAA)

TEACHING	SOC 800 Dissertation	Spring 2016
	INSC 600 Independent Study	Spring 2016
	INSC 575 Research Practicum	Winter 2016
	INFO 499 Independent Study	Autumn 2015, Winter 2016, Spring 2016
	IMT 600 Independent Study	Winter 2016, Spring 2016
	HCDE 596 Directed Research Group	Autumn 2014 - Spring 2016
	<i>Co-taught with Dr. Kate Starbird (UW, HCDE)</i>	
	INFX 573 Data Science I - Theoretical Foundations	Autumn 2014, Autumn 2015
	INSC 565 Teaching Practicum	Autumn 2015
	INFO 495 Informatics Internship	Summer 2015
	INFX 576 Social Network Analysis	Spring 2015
	IMT 570 Analytic Methods for Information	Spring 2014, Spring 2015
	SOC 800 Doctoral Dissertation	Spring 2015
	SOC 495 Honors Senior Thesis in Sociology	Spring 2015, Spring 2016
	SOC 600 Independent Study	Autumn 2014, Winter 2015
	INSC 576 Research Practicum	Autumn 2014
	INFX 598 Advanced Methods in Data Science	Spring 2014
	INFX 598 Core Methods in Data Science	Winter 2014
	INSC 599 Independent Study	Winter 2014

GUEST LECTURES	• “Data Science and Big Social Data” - INFO 200: Int. Found. of Informatics	May, 2016
	• “Data Science and Big Social Data” - INFO 200: Int. Found. of Informatics	February, 2016
	• “Social Media and Crisis Events” - INFX 598: Data Visualization	May, 2015
	• “Data Science and Big Social Data” - INFO 200: Int. Foundations of Informatics	March, 2015
	• “Introduction to Social Network Analysis” - UW PCE: Data Analysis	November, 2014
	• “Computational Social Science” - INFO 470: Research Design	October, 2014
	• “Big Data and Data Science” - INFO 200: Intellectual Foundations of Informatics	May, 2014
	• “Why Your Friends Have More Friends Than You Do” - UW Student Preview Days	April, 2014
	• “Big Data and Data Science” - INFO 200: Intellectual Foundations of Informatics	March, 2014
	• “Introduction to Social Networks” - INFX 598: Introduction to Data Science	November, 2013
	• “Introduction to Social Networks” - UW iSchool Preview Day	November, 2013
	• “Big Data in the Social Sciences” - INFO 470: Research Design	October, 2013

DOCTORAL STUDENT SUPERVISION	CHAIR OR CO-CHAIR	
	• Nina Cesare, Department of Sociology, University of Washington	2014-Present
	• Shawn Walker, Information School, University of Washington	2016-Present

SUPERVISORY AND/OR READING COMMITTEE		
• Stephanie Lee, Department of Sociology, University of Washington		2014-Present
• Joshua A. Williams, Jackson School of Int. Studies, University of Washington		2015-Present
• Jeff Hemsley, Information School, University of Washington		2014
	<i>(First position at Syracuse University)</i>	

GRADUATION SCHOOL REPRESENTATIVE		
• Yunkang Yang, Department of Communication, University of Washington		2016-Present
• Leila R. Zelnick, Department of Biostatistics, University of Washington		2015
	<i>(First position at University of Washington)</i>	

GENERAL EXAM COMMITTEE		
• Raza Rehman, Information School, University of Washington		Scheduled 2016
• Nina Cesare, Department of Sociology, University of Washington		Autumn 2015
• Philip Reed, Information School, University of Washington		Autumn 2014

iSCHOOL ADVISORY COMMITTEE		
• Guanghua Chi, Information School		2015-2016
• Li Zeng, Information School		2015-2016

- Lavi Aulck, Information School 2015-2016
- Niall Keleher, Information School 2015-2016
- Amirah Majid, Information School 2015-2016
- Jason Portenoy, Information School 2015-2016
- Philip Reed, Information School 2014-2015
- Raza Rehman, Information School 2014-2015

OTHER ADVISING

- Victor M. Morales, Department of Sociology, University of Washington. Undergraduate Honors Thesis Co-mentor, Winter and Spring 2016.
- NSF Research Experiences for Undergraduates: Tracking the Online Spread of Misinformation after Disaster Events; Co-mentoring 6 students with Dr. Kate Starbird (UW, HCDE) and Dr. Robert Mason (UW, iSchool)
- Zoë Bill, Department of Sociology, University of Washington. Undergraduate Honors Thesis Co-mentor, Winter and Spring 2015. (Joint with Emilio Zagheni, UW Department of Sociology) *Mary Gates Research Scholarship Recipient, Spring 2015*
- Katherine Zhu, “Exploring Young Adults’ Drinking Behavior via Digital Traces on Social Media.” Undergraduate Research Symposium, University of Washington.
- Logan Walls, “Did You Hear about the Computer that Can Detect Rumors?: An Algorithmic Approach to Rumor Detection.” Undergraduate Research Symposium, University of Washington.
- Harrison T. Reeder, Department of Mathematics and Statistics, Carleton College. Carleton College Kolenkow-Reitz Fund for Undergraduate Research Recipient, Summer 2014. (Joint with Tyler McCormick, UW Department of Sociology and Statistics)