

# ANDREA H. TAPIA

## **ABRIDGED CV**

**Professor, College of Information Sciences and Technology, The Pennsylvania State University**

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## **Latest Education**

May 2000 **Ph.D. Sociology**, University of New Mexico, Albuquerque, New Mexico.

## **Current Professional Activities**

**Administrative Fellow.** Mentor: Dr. Nicholas P. Jones, Executive Vice President and Provost. 2020-2021 Academic Year. The Pennsylvania State University.

**Chair. College of IST Promotion and Tenure Committee**, The Pennsylvania State University.

**Full Professor**, May 2019. The Pennsylvania State University

**Professor in Charge.** Social and Organizational Informatics. College of IST.

**Affiliate Faculty Appointments** with the School of International Affairs, the Sociology Department, the Labor and Industrial Relations Department, member of the Institute for Information Policy, Department of Telecommunications.

## **Recent Journal Articles**

1. Grace, W. R., Kropczynski, J. N., Pezanowski, S., Halse, S. E., Umar, P., & **Tapia, A. H.** (2018). Enhancing community preparedness through Social Triangulation: Understanding local information curation behavior to locate and reach local social media users. *International Journal of Information Systems for Crisis Response and Management.*

2. **Tapia, A.**, Hughes, A. L., & Lalone, N. (2018). The Verification Pause: When Information Access Slows Reaction to Crisis Events. *International Journal of Information Systems for Crisis Response and Management*. (in press).
3. Lalone, N., **Tapia, A.**, Grace, W. R., & Kropczynski, J. (2018). Reddit, Publics, and Expertise: The Evolution of Networked Publics through the Lens of Crisis Response. *Communication and the Public*. (in press)
4. Halse, S. E., **Tapia, A.**, Squicciarini, A., & Caragea, C. (2018). An emotional step toward automated trust detection in crisis social media. *Information Communication and Society*, 21(2), 288–305. <http://dx.doi.org/10.1080/1369118X.2016.1272618>
5. Barker, K., Lambert, J. H., Zobel, C. W., Tapia, A., Ramirez-Marquez, J. E., Albert, L., Nicholson, C. D., Caragea, C. (2017). Defining Resilience Analytics for Interdependent Cyber-Physical-Social Networks. *The Journal of Sustainable and Resilient Infrastructure*, 2(2), 59–67. <http://doi.org/10.1080/23789689.2017.1294859>
6. Lalone, N., **Tapia, A.**, Zobel, C. W., Caragea, C., Neppalli, V. K., & Halse, S. E. (2017). Embracing Human Noise as Resilience Indicator: Twitter as Power Grid Correlate. *The Journal of Sustainable and Resilient Infrastructure*, 2(4), 169–178. <http://doi.org/10.1080/23789689.2017.1328920>
7. Neppalli, V. K., Caragea, C., Squicciarini, A., **Tapia, A.**, & Stehle, S. (2017). Sentiment Analysis During Hurricane Sandy in Emergency Response. *International Journal of Disaster Risk Reduction*, 21, 213–222. <http://doi.org/doi.org/10.1016/j.ijdr.2016.12.011>
8. Neppalli, V. K., Caragea, C., Caragea, D., Medeiros, M. C., **Tapia, A.**, & Halse, S. E. (2016). Predicting Tweet Retweetability during Hurricane Disasters. *International Journal of Information Systems for Crisis Response and Management*, 8(3), 32–50. <http://doi.org/10.4018/IJISCRAM.2016070103>
9. Halse, S. E., & **Tapia, A.** (2016). Improving the Utility of Social Media Data to Emergency Responders through Emotional Content Detection. *International Journal of Information*

*Systems for Crisis Response and Management*, 8(3), 18–31.

<http://doi.org/10.4018/IJISCRAM.2016070102>

10. Case, N., MacDonald, E., McCloat, S., Lalone, N., & **Tapia, A.** (2016). Determining the Accuracy of Crowdsourced Tweet Verification for Auroral Research. *Citizen Science: Theory and Practice*, 1(2), 13. <http://doi.org/10.5334/cstp.52>

## Recent Peer Reviewed Conference Proceedings

1. Jamie Reep and **Andrea Tapia** (2020) "Toward an Organizational Technology Adoption Process (OTAP) for Social Media Integration in a PSAP." *International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Virginia Tech. Blacksburg, VA. May 2020.
2. Rob Grace, Jess Kropczynski, **Andrea Tapia**, Eric Obeysekare, Shane Halse, Julien Coche, Aurélie Montarnal, Mike Beagles, Fred Fonseca (2019) Role Playing Next Generation 9-1-1: Sensemaking with Social Media in Public-Safety Answering Points. *HICSS Hawaii International Conference on System Sciences*. Maui, Hawaii.
3. Rob Grace, Shane Halse, William Aurite, Aurélie Montarnal, **Andrea Tapia**, (2019) "Expanding Awareness: Comparing Location, Keyword, and Network Filtering Methods to Collect Hyperlocal Social Media Data." *HICSS Hawaii International Conference on System Sciences*. Maui, Hawaii.
4. Julien Coche, Aurelie Montarnal, **Andrea Tapia** and Frederick Benaben (2019) Towards a comprehensive architecture able to feed collaborative models through social media data, *PRO VE*. Turin Italy. September 2019.
5. Jess Kropczynski, **Andrea Tapia**, Rob Grace, Shane Halse, (2019) "Socio-technical System Hybrids: Social Media Data for Crisis Response", Humanitarian Operations and Crisis Management track. *Production and Operations Management Society. POMS Annual Conference*. May, 2019, Washington, D.C.
6. Rob Grace, Jess Kropczynski, **Andrea Tapia**, Shane Halse, (2019) Incorporating Big Data Analysts in 9-1-1 Dispatch, *NENA National Emergency Number Association*, Orlando, Florida.
7. Shane Errol Halse, Rob Grace, Jess Kropczynski, **Andrea Tapia** (2019) Simulating real-time Twitter data from historical datasets. In *International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Valencia, Spain.
8. Juan Francisco Carías, Leire Labaka, Jose Maria Sarriegi, **Andrea Tapia**, Josune Hernantes. (2019) The Dynamics of Cyber Resilience Management. In *International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Valencia, Spain.
9. Rob Grace, Shane Halse, Jess Kropczynski, **Andrea Tapia**, Fred Fonseca. (2019) Integrating Social Media in Emergency Dispatch via Distributed Sensemaking. In

*International Conference on Information Systems for Crisis Response and Management (ISCRAM). Valencia, Spain.*

- 10.** Yingjie Li, Seoyeon Park, Cornelia Caragea, Doina Caragea, **Andrea Tapia**, (2019) Sympathy Detection in Disaster Twitter Data. In *International Conference on Information Systems for Crisis Response and Management (ISCRAM)*. Valencia, Spain. **\*\*\*Nominated for best research paper\*\*\***

## **Recent Examples Of Research Funding**

1. **Title:** Help by Any Means: Sociotechnical Protocols for Multimedia Requests for Assistance to Next-Generation 911 Services

**Funding Source:** National Science Foundation, SCC-PG, 1951917, \$149,000

2. **Title:** BIGDATA: IA: Collaborative Research: Domain Adaptation Approaches for Classifying Crisis Related Data in Social Media

**Funding Source:** National Science Foundation, BIGDATA 1741370, \$400,000

3. **Title:** CHS: Small: Collaborative Research: Automating Relevance and Trust Detection in Social Media Data for Emergency Response

**Funding Source:** National Science Foundation, Cyber-Human Systems, 1526542 and 1526678, \$250,000

4. **Title:** CRISP Type 2/Collaborative Research: Resilience Analytics: A Data-Driven Approach for Enhanced Interdependent Network Resilience

**Funding Source:** National Science Foundation, CRISP (Critical Resilient Interdependent Infrastructure Systems and Processes) Division of Civil, Mechanical, and Manufacturing, Infrastructure Management and Extreme Events. Number 1541155, \$827,171

5. **Title:** AURORASaurus Citizen Scientists Experiencing the Extremes of Space Weather.

**Funding Source:** National Science Foundation Space Weather Research, Div Atmospheric and Geospace Sciences, INSPIRE. \$998,957

## **Mentorship of Post Doctoral Fellows**

1. Aurelie Montarnal. August 2015-May 2016
2. Julien Coche. April 2018-December 2020.

3. Robin Telecom Paris. August 2018-May 2020

## **Chair of student Ph.D. Committee (16 PhD students)**

1. Christopher Doty, Graduating Summer 2021
2. Jamie Reep, PhD Graduating Summer 2020.
3. William Aurite, Ph.D. Graduated December 2019
4. Rob Grace, Graduated May 2019.
5. Richard Wirth, Ph.D Graduation Expected, Summer 2020, Title, "Player-Developer Convergence: Examining the Role of Audience in Game Development Practices"
6. S. Halse, Ph.D Expected Graduated Summer 2019, Title, "Social Media for Crisis Response: Filtering, Measuring and Improving."
7. Mark Campbell, Expected Graduation Summer 2020, Title, "Military aided Refinement and Display of Crowdsourced Data on a Crisis Management COP," Current position, Information and Technology Services, Penn State University.
8. Nicolas LaLone, Graduated August 2018, Title, " Simulating Reality: The Translation Process form the Real to the Virtual."
9. Tamara Peyton, Graduated December 2016. , (took over after Erika Poole departed) Title, "The Sociotechnical Mediation of Lower-Income Pregnancy: A User-Centered Approach to Improving a HCI Design Space." Current Position: Assistant Professor of HCI at Harrisburg University.
10. Jeremy Lothian, Graduated, December 2015, Title, "A Cross-Game Study of Trust in Massively Multiplayer Role Playing Games," Current Position, Accuweather.
11. Kathleen Moore, Graduated August 2014, Title, "Scrutiny On The Bounty: Extending Situational Crisis Communication Theory," Current Position, Assistant Professor James Madison University.
12. Ibrahim Yucel, Graduated August 2011, Title, "How To Make Friends And Influence People On The Internet: A Dissertation On Popular Comments On Blogs," Current Position, Assistant Professor at SUNYIT, State University of New York Institute of Technology.
13. Bridget Blodgett, Graduated August 2011, Title, "Collective Action Situated In Virtual Worlds," Current Position, Assistant Professor at the University of Baltimore, Maryland.
14. Michael Tyworth, Graduated Spring 2010, (took over after Steve Sawyer departed) Title, "Reflections Of Identity: How Information Systems Reflect The Organization As A Social Actor," Current Position, Assistant Professor of Business, Smeal College of Business, Penn State University.
15. Edgar Maldonado, Graduated August 2009, Title, "IT Policies for Development: Analysis and Recommendations of Free Libre Open Source Software Initiatives of the Bolivarian Republic of

Venezuela,” Current Position Assistant Professor at The Metropolitan University of Denver, Colorado.

16. Julio Ortiz, Graduated May 2008, Dissertation Title, “The Perceived Impact Of Municipal Wireless Broadband Networks On The Digital Divide: A Tale Of Five Cities.” Post Doc at Rutgers University and Position at Harvard’s Berkman Center for Public Policy.

**Full CV available upon request**