

APOORVA CHAUHAN

Postdoctoral Fellow, David R. Cheriton School of Computer Science, University of Waterloo, Canada
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EDUCATION

Ph.D. in Computer Science, July 2019

Utah State University (USU), Logan, UT, USA

Dissertation: "Social Media Use During Crisis Events: A Mixed-Method Analysis of Information Sources and their Trustworthiness."

Advisor: Dr. Amanda Lee Hughes.

Dissertation Committee Members: Dr. Daniel W. Watson, Dr. Curtis Dyreson, Dr. Breanne K. Litts, and Dr. Victor Lee.

M.S. in Computer Science, December 2014

Utah State University, Logan, UT, USA

Thesis: "Online Media Use and Adoption by Hurricane Sandy Affected Fire and Police Departments."

Advisor: Dr. Amanda Lee Hughes.

Masters Committee Members: Dr. Daniel W. Watson and Dr. Kyumin Lee.

B.E. in Computer Science, June 2012

Lakshmi Narain College of Technology, Bhopal, MP, India

AWARDS

Honorable Mention Summer School Project Award, Computational Social Science Summer School, Los Angeles, CA, USA. 2018.

Honored as "ISCRAM 2018 Social Media Chair" at RIT, Rochester, NY, USA. 2018.

USU Outstanding Graduate Researcher in the Computer Science Department Award. 2018.

USU RGS Graduate Student Travel Award for ISCRAM 2018 at Rochester, NY, USA. 2018.

USU Outstanding Engineering Graduate Scholar in the College of Engineering Award. 2018.

USU Computer Science Department Research Assistantship Award. Spring 2018.

USU RGS Graduate Student Travel Award for CHI 2017 at Denver, CO, USA. 2017.

USU RGS Graduate Student Travel Award for ISCRAM 2015 at Kristiansand, Norway. 2015.

HONORS

Accepted to Consortium for the Science of Sociotechnical Systems, New Brunswick, NJ. 2019.

Finalist for the 'USU International Student of the Year' award. 2019.

Finalist for the ISCRAM 2018 'Best Doctoral Student Paper Award' Rochester, NY, USA. 2018.

Accepted to the ISCRAM 2018 Doctoral Consortium, Rochester, NY, USA. 2018.

Finalist for the 'USU Doctoral Researcher of the Year' at Robin's Awards (**USU's most prestigious awards**). 2018.

Judged the Poster Presentation session at the USU Student Research Symposium. 2018.

Accepted to the Computational Social Science Summer School, Los Angeles, CA, USA (**13% acceptance rate**). 2018.

Nominated for the 'Best Student Paper' at ISCRAM 2016, Rio De Janeiro, Brazil. 2016.

Invited Guest Speaker at three USU International Teaching Assistant workshops. 2014 – 2015.

RESEARCH EXPERIENCE

Computer Science, University of Waterloo, Canada, Nov 2019 – Present

Working with Drs. Edith Law (faculty in Computer Science) and Elizabeth Nilsen (faculty in psychology) on projects related to teachable conversational agents and Child-Robot Interaction.

Computer Science, USU, USA, Jan 2013 – Aug 2019

Worked with Dr. Amanda Lee Hughes on several projects related to Crisis Informatics, specifically

on the use of social media during crisis events.

Computer Science, USU, USA, May 2019 – Aug 2019

Worked with Dr. Mahdi Nasrullah Al-Ameen on a research project related to IoT security and privacy.

Instructional Technology and Learning Sciences, USU, USA, Jan 2018 – Aug 2019

Worked with Dr. Breanne K. Litts on several projects related to learning sciences, specifically the role of game-design process on the computational thinking skills of children.

TEACHING EXPERIENCE

Lecturer, “CS 449/649: *Human-Computer Interaction*”

Spring 2020, University of Waterloo, Canada

Graduate Instructor, “CS 1400: *Introduction to Computer Science*”

Spring 2017, USU, USA.

Teaching Assistant, “CS 6890: *Usable Security/Privacy*”

with Dr. Mahdi Nasrullah Al-Ameen, Spring 2019, USU, USA.

Teaching Assistant, “CS 1400: *Introduction to Computer Science and Recitation*”

with Dr. Chad Mano, Spring 2019, USU, USA.

Teaching Assistant, “CS 5800: *Introduction to Database Systems*”

with Dr. Curtis Dyreson, Fall 2018, USU, USA.

Teaching Assistant, “CS 5460/6460: *Computer Security I/II*”

with Dr. Chad Mano, Fall 2017, USU, USA.

Teaching Assistant, “CS 2610: *Developing Web Applications*”

with Dr. Linda DuHadway, Fall 2013, USU, USA.

Teaching Assistant, “CS 1400: *Intro Computer Science I*”

with Dr. Linda DuHadway, Spring 2013, USU, USA.

PUBLICATIONS

Book Chapters

[B2] Haderlie T.M., **Chauhan A.**, Lewis W., Litts B.K. (2019). *The Graduation Game: Leveraging Mobile Technologies to Reimagine Academic Advising in Higher Education*. In: Zhang Y., Cristol D. (eds) *Handbook of Mobile Teaching and Learning*. Springer, Berlin, Heidelberg.

[B1] **Chauhan A.**, Lewis W., Litts B.K. (2019). *Location and Place: Two Design Dimensions of Augmented Reality in Mobile Technologies*. In: Zhang Y., Cristol D. (eds) *Handbook of Mobile Teaching and Learning*. Springer, Berlin, Heidelberg.

Refereed Conference Publications

[C9] **Chauhan, Apoorva** and Amanda L. Hughes (2020). *Trustworthiness Perceptions of Social Media Resources Named after a Crisis Event*. In *Proceedings of the Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2020)*, Minneapolis, MN.

[C8] Al-Ameen, Mahdi N., **Apoorva Chauhan**, M A Manazir Ahsan, Huzeyfe Kocabas (2020). *“Most Companies Share Whatever They Can to Make Money!”: Comparing User’s Perceptions with the Data Practices of IoT Devices*. In *International Symposium on Human Aspects of Information Security & Assurance (HAISA)*.

[C7] Litts, Breanne K., **Apoorva Chauhan**, Chase K. Mortensen, and Kamaehu Matthias (2019) *“I’m Drowning in Squirrels!”: How Children Embody and Debug Computational Algorithms*

Through Designing Mixed Reality Games. In Proceedings of 18th ACM Conference on Interaction Design and Children, June 12-15, 2019, Boise, Idaho, USA. **(33% acceptance rate)**

[C6] Lamarra, Julie, **Apoorva Chauhan**, and Breanne K. Litts (2019). *Designing for Impact: Shifting Children's Perspectives of Civic and Social Issues Through Making Mobile Games*. In Proceedings of 18th ACM Conference on Interaction Design and Children, June 12-15, 2019, Boise, Idaho, USA. **(33% acceptance rate)**

[C5] **Chauhan, Apoorva** and Amanda Lee Hughes (2018). *Social Media Resources Named after a Crisis Event*. In Proceedings of the 2018 Information Systems for Crisis Response and Management Conference (ISCRAM 2018), Rochester, NY, USA. **(Finalist in the Best Doctoral Student Paper Award Category)**

[C4] **Chauhan, Apoorva** and Amanda Lee Hughes (2017). *Providing Online Crisis Information: An Analysis of Official Sources during the 2014 Carlton Complex Wildfire*. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI 2017), Denver, CO, USA. **(25% acceptance rate)**

[C3] **Chauhan, Apoorva** and Amanda Lee Hughes (2016). *Online Mentioning Behavior during Hurricane Sandy: References, Recommendations, and Rebroadcasts*. In Proceedings of the 2016 Information Systems for Crisis Response and Management Conference (ISCRAM 2016), Rio De Janeiro, Brazil. **(Nominated in the Best Student Paper Category)**

[C2] Hughes, Amanda and **Apoorva Chauhan** (2015). *Online Media as a Means to Affect Public Trust in Emergency Responders*. In Proceedings of the 2015 Information Systems for Crisis Response and Management Conference (ISCRAM 2015), Kristiansand, Norway.

[C1] **Chauhan, Apoorva** and Amanda Lee Hughes (2015). *Facebook and Twitter Adoption by Hurricane Sandy-affected Police and Fire Departments*. In Proceedings of the 2015 Information Systems for Crisis Response and Management Conference (ISCRAM 2015), Kristiansand, Norway.

Technical Report

[R1] Trilateral Research, Fraunhofer Institute for Open Communication Systems, Utah State University (Amanda L. Hughes and **Apoorva Chauhan**), and the Asian Disaster Preparedness Centre (2016). *Comparative Review of the First Aid App*. Final Report to the Global Disaster Preparedness Center. <http://preparecenter.org/resources/comparative-review-first-aid-app>.

Workshop Paper

[W1] E. Law, E. Nilsen, K.J. Lee, **A. Chauhan**, J. Ceha, P. Baghaei, A. Debbane and K. Yang (2020). *Learning and Teaching with Conversational Agents*. In CHI 2020 Workshop on Grand Challenges in Conversational UI.

Posters

[P6] **Chauhan, Apoorva** and Amanda Lee Hughes (2019). *Do People Trust Facebook Pages and Twitter Accounts Named after Crisis Events?* USU Native American STEM Mentorship Program, May 2019. USU Research Week, April 2019.

[P5] Lamarra, Julie, **Apoorva Chauhan** and Breanne K. Litts (2018). *Leveraging Mobile Games for Civic Engagement*. USU Inclusive Excellence Symposium, October 2018.

[P4] **Chauhan, Apoorva** and Amanda Lee Hughes (2017). *Overview of Event Based Resources on Facebook and Twitter: Fort McMurray Wildfire, May 2016*. USU Research Week, April 2017.

[P3] **Chauhan, Apoorva** and Amanda Lee Hughes (2016). *Online Dissemination of Official*

Information – The 2014 Carlton Complex Wildfires. USU Computer Science Industry Day, April 2016. USU Research Week, April 2016. USU Science Unwrapped, April 2016.

[P2] **Chauhan, Apoorva**, Dale Flamm, James Nickerson, Sarbajit Mukherjee, and Amanda Lee Hughes (2016). *Haptic Guidance for Persons with Visual Impairment during Crisis Evacuations*. USU Computer Science Industry Day, April 2016. USU Science Unwrapped, April 2016.

[P1] **Chauhan, Apoorva** and Amanda Lee Hughes (2015). *Online Trust-Building Recommendations for Emergency Responders*. USU Computer Science Industry Day, March 2015.

Demonstration

[D1] **Chauhan, Apoorva** (2018). *Electronic textiles using Circuit Playground and LEDs*. Demo at the 2018 USU Native American STEM Mentorship Program, UT, USA.

PROFESSIONAL COURSES

IDC 2019

“*Quantitative Methods for Child-Computer Interaction*” by Lisa Anthony (University of Florida).

CHI 2017

“*Introduction to Human-Computer Interaction*” by Jonathan Lazar (Towson University, MD, USA) and Simone D. J. Barbos (Pontifical Catholic University of Rio de Janeiro, Rio de Janeiro, Brazil).

ISCRAM 2015

“*Qualitative Research Methods for Crisis Informatics: Thinking Out Loud, Semi-structured Interviews, and Focus Groups*” by Dr. Starr Roxanne Hiltz (New Jersey Institute of Technology, NJ, USA) and Dr. Andrea Tapia, (Pennsylvania State University, PA, USA).

SERVICE

Program Committee

Associate Chair, IDC 2020

ISCRAM 2020 Track, “Social Media for Disaster Response and Resilience.”

Social Media Chair

ISCRAM 2021 (Blacksburg, Virginia, USA)

ISCRAM 2020 (Blacksburg, Virginia, USA)

ISCRAM 2018 (Rochester, New York, USA)

ISCRAM 2015 (Kristiansand, Norway)

Reviewer

CHI, CSCW, HICSS, iConference, ISCRAM

International Journal of Human-Computer Interaction (IJHCI 2017)

International Journal of Human-Computer Studies (IJHCS 2015)

USU extension 2017

Student Volunteer at International Conferences

CHI 2017- Denver, Colorado, USA

ISCRAM 2015- Kristiansand, Norway

Student Volunteer at USU, USA

Playful Explorations Lab. Advisor: Dr. Jody Clarke-Midura (Summer 2018)

Intensive English Language Institute. Advisor: Dr. Ekaterina Arshavskaya (Spring 2018)