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I am interested in research problems at the intersection of **technology and society**. My current focus is on finding implicit/hidden advertisements in videos posted on kids platforms like YouTube kids. Other ongoing projects include analyzing user behavior on online platforms, quantifying polarization on online forums, presence of advertisements disguised as news on news platforms etc. Additionally, I have also conducted research on **user experience**, investigating the use of **phone sensors in emergencies** to improve situational awareness. My teams' study on the wireless-emergency-alerting (WEA) service addressed several issues of central importance to emergency alerts' effectiveness and adoption. Some of our [recommendations](#)¹ were included in the US Federal Communications Commission (FCC) proposed [changes](#)² to WEA.

Education

Ph.D. in Societal Computing, School of Computer Science, **Carnegie Mellon University**, Spring 2020 (Expected)
Expected Thesis Title: **Multi-Modal Stance Mining Using Weak Supervision**
Committee Members: Dr. Katheen M. Carley, Dr. Tom Mitchell, Dr. LP Morency, Dr. Huan Liu
MS in Machine Learning, School of Computer Science, **Carnegie Mellon University**, Dec 2018, QPA:3.87/4.0
MS in Software Engineering, Carnegie Institute of Technology, **Carnegie Mellon University**, Aug 2013, QPA:3.96/4.0
BTech in Aerospace Engineering, **Indian Institute of Technology Kanpur (IIT Kanpur)**, July 2007, CPI:7.1/10.0

Research in Progress: For new publications, please check <https://scholar.google.com/citations?user=5Qc6lfYAAAAJ>

- 1. Sumeet Kumar, Tom Mitchell, Kathleen M. Carley, **Co-Training on Social Networks: A Joint Label Propagation and Text Classification Approach for Stance Mining**
- 2. Sumeet Kumar, Ramon Villa Cox, Binxuan Huang, Kathleen Carley, **Stance2Vec: A Deep Learning Model to Predict Stance Taken in Reply Posts Using Weak Supervision**
- 3. David Beskow. Sumeet Kumar, Kathleen M. Carley, **The Evolution of Political Memes: Detecting and Characterizing Internet Memes with Multi-modal Deep Learning**, Information Processing and Management Journal, (under review)

