

Ponnurangam Kumaraguru (PK)

A 404, Academic Building
IIIT Delhi, Okhla, Phase III
New Delhi - 110020
pk@iiitd.ac.in

Associate Professor
Founding Head, CERC @ IIITD
Hemant Bharat Ram Faculty Research Fellow
cerc.iiitd.ac.in, precog.iiitd.edu.in

EDUCATION

Ph.D., Computer Science, Carnegie Mellon University, USA. Sep 2004 - May 2009.

Advisor: Dr. Lorrie Faith Cranor

M.S., Computer Science, Carnegie Mellon University, USA. Sep 2004 - May 2007.

Advisor: Dr. Lorrie Faith Cranor

M.S., Software Systems, Birla Institute of Technology and Science, Pilani, India. Dec 2000 - May 2002.

Advisor: Dr. Sandip Deb

B. Eng., Electronics and Communication Engineering, Madras University, India. Apr 1994 - Apr 1998.

PROFESSIONAL EXPERIENCE

Associate Professor - Indraprastha Institute of Information Technology, Delhi, India, 1 July, 2015 - Present

Affiliate Faculty - International Institute of Information Technology, Hyderabad, India, 31 August, 2016 - Present

Visiting Researcher - Max Planck Institute for Software Systems, Saarbrücken, Germany, 1 May, 2016 - 31 July, 2016

Assistant Professor - Indraprastha Institute of Information Technology, Delhi, India, 3 Aug, 2009 - 31 June, 2015

Visiting Researcher - Data Security Council of India, 1 Aug, 2015 - Present

Visiting Researcher - Adobe Research Lab, Bengaluru, 1 May, 2015 - 31 July, 2015

Visiting Researcher - Adobe Research Lab, Bengaluru, 1 May, 2014 - 31 July, 2014

Visiting Researcher - Mumbai Police, Mumbai, 1 Dec, 2013 - 31 Dec, 2013

Visiting Professor - Department of Computer Science, Federal University of Minas Gerais (UFMG), Brazil, Feb 2011 - July 2013

Visiting Scientist - Ministry of Home Affairs, Delhi, 1 July, 2013 - 31 July, 2013

Visiting Scientist - Indian Institute of Science, Bengaluru, India, Dec 2012 - Jan 2013

Visiting Researcher - Dublin City University, Dublin, June 2012

Research Associate - Carnegie Mellon University (CMU), USA, June 2009 - July 2009

Graduate Research Assistant - Carnegie Mellon University (CMU), USA, Sep 2004 - May 2009

Summer Intern - National Association of Software and Service Companies (NASSCOM), May 2007 - Aug

2007. Advisors: Mr. Kiran Karnik, Mr. Shyamal Ghosh, and Mr. Nandkumar Saravade

Summer Intern - National Association of Software and Service Companies (NASSCOM), May 2006 - Aug 2006. Advisors: Mr. Kiran Karnik, Late Mr. Sunil Mehta and Mr. Nandkumar Saravade

Research Scholar - Carnegie Mellon University, USA, Aug 2003 - Aug 2004. Advisors: Dr. Lorrie Cranor and Dr. Raj Reddy

Research Scientist - Language Technologies Research Centre (LTRC), International Institute of Information Technology (IIIT) - Hyderabad, India, Jan 2003 - Aug 2004. Advisors: Dr. Rajeev Sangal and Dr. VasuDeva Varma

Senior Knowledge Officer - SlashSupport, Inc. India, April 2000 - Dec 2002. Advisors: Dr. Sandip Deb and Mr. Raghuraman

Design Engineer, Genus Overseas Electronics Private Ltd., India, Aug 1999 - March 2000. Advisor: Mr. Tapan Kapoor

TEACHING EXPERIENCE

Indraprastha Institute of Information Technology (IIIT), Delhi. Aug 2009 – Present.

- Privacy and Security in Online Social Media (PSOSM) on NPTEL (Coursera in India). Fall 2017.
- Privacy and Security in Online Social Media (PSOSM) on NPTEL (Coursera in India). Fall 2016. 5200+ students registered for the course.
- Designing Human-Centered Systems, Fall 2012, Spring 2014, Spring 2015, Spring 2016, Spring 2017
- Foundations of Computer Security, Fall 2010, Fall 2011, Fall 2014, Fall 2016
- Privacy and Security in Online Social Media, Fall 2011, Fall 2012, Fall 2013, Fall 2015
- Internet Security and Privacy, Fall 2014 (Co-taught with Dr. Mohan Dhawan, IBM - IRL)
- Probability and Statistics, Spring 2012, Spring 2013
- Advanced Research Methods, Spring 2011
- Research Methods, Spring 2010, Spring 2011
- Security in Emerging Technologies, IIIT-Delhi, Spring 2010
- Security and Privacy, IIIT-Delhi, Fall 2009

Visiting Faculty, Regularly give lectures in the Cybercrime and Online Social Media related courses at CBI Academy, National Police Academy, North Eastern Police Academy, State police and Intelligence organisations, Army War College, and other Government of India organisations. 2013 – Present.

Trainer, July 2013 - Present

Develop and deliver a training program on Using Online Social Media for Policing, Intelligence, Law & Order and Investigation. Conducted in various parts of the country, including IIIT Delhi, in different formats – 1 day, 2 days, 3 days, 4 days, and 5 days. Trained 6,000+ government officers.

Visiting Professor, Department of Computer Science, UFMG, Brazil. Feb 2011 – July 2013.

- Privacy and Security in Online Social Media, Summer 2011
- Privacy and Security in Online Social Media, Summer 2012

Successfully completed the Eberly Center for Teaching Excellence program, Documentation of Teaching Development, Carnegie Mellon University, Spring 2006 - Spring 2008.

Teaching Assistant, School of Computer Science (SCS), CMU

- Mobile and Pervasive Computing Services, Spring 2008
- Web Commerce, Security and Privacy, Fall 2006

Teaching Co-ordinator and Mentor, Master of Science in Information Technology (MSIT), IIIT - Hyderabad, Jan 2004 - Aug 2004. Taught a mini semester course on Introduction to Privacy Technologies. Advised Masters students.

Teaching faculty, IIIT - Hyderabad, Jan 2004 - Aug 2004. Taught a mini semester course on Introduction to Privacy Technologies

Lecturer, Raja Rajeswari Engineering College, Chennai, India, Jan 1999 - Aug 1999

GRANT SUPPORT & FUNDING

- Defence Research and Development Organisation (DRDO), Government of India. Aug 2017 - July 2019. Principal Investigator. INR 34,01,200
- IBM India Research Lab. Open Science Collaborative Project. Adversarial Machine Learning. 2017 - 2018. Principal Investigator. INR 2,50,000
- Department of Electronics and Information Technology (DeitY), Government of India. Integrating Open Source Intelligence from Traditional Sources and Online Social Networks for Intelligence Gathering. 2016 – 2018. Principal Investigator. INR 1,68,70,000
- Department of Electronics and Information Technology (DeitY), Government of India. Information Security & Education Awareness (ISEA). The total worth of the project is 96.08 Crore Rupees (approx. 14.7 million USD). Direct funding for IIITD is 1.48 Crore Rupees, Indirect funding is 10+ Crore Rupees. IIITD is one among 40 other institutes from the country in the project. Project duration is for 5 years. This is an institute wide project, spearheaded the proposal phase of the project in getting this project to IIITD.
- Defence Research and Development Organisation (DRDO), Government of India. Sept 2015. INR 9,00,000
- EMC² / RSA. Sept 2015. INR 9,60,000
- Ministry of Home Affairs. June 2015. INR 6,36,000
- Department of Electronics and Information Technology (DeitY), Government of India. To organise the 3rd Security & Privacy Symposium. Jan 2015. INR 1,50,000
- Defence Research and Development Organisation (DRDO), Government of India. To organise the 3rd Security & Privacy Symposium. Jan 2015. INR 1,00,000
- Pricewaterhouse (PcW). To organise Capture The Flag as part of the 3rd Security & Privacy Symposium. Jan 2015. INR 3,00,000
- Adobe. Faculty Excellence Research Award. 2014 - 2017. 15,00,000
- Intel. Creating Course content for Privacy and Security in Online Social Media. 2014 - 2015. INR 12,00,000
- Department of Electronics and Information Technology (DeitY), Government of India. Analyzing and Measuring Trustworthiness of User-Generated Content and Users on Multiple Online Social Media to Counter Cybercrime. 2013 – 2015. Principal Investigator. INR 75,00,000
- Virtual Centre of Excellence for Research in Violent Online Political Extremism. 2012 - 2017. 7th Framework Programme for Research (FP7). PI: Dr. Maura Conway, Dublin City University. Co-PI: Ponnurangam Kumaraguru along with 8 other universities around the world (2 in UK, 2 in Netherlands, 1 in the US, 2 in Denmark, 1 in Hungary). 5,980,704 Euros (INR 41,56,58,928)
- Hemant Bharat Ram Faculty Research Fellowship. To conduct research in the area of security and privacy. 2012 – 2017. Instrumental in creating this Fellowship. Donor contribution INR 20,00,000 and institute contribution INR 20,00,000

- NSF international supplement. Title: Online Privacy and Senior Citizens - A Socio-Technical Multi-Perspective Framework for Trustworthy Operation, #0916612. U.S. PIs: H. Raghav Rao, Shambhu Upadhyaya and Sharmistha Bagchi-Sen, SUNY Buffalo. 2012 - 2013. INR 5,00,000
- Department of Electronics and Information Technology (DeitY), Government of India. Automated Detection of Security and Privacy Threats in Peer-to-Peer networks. PI: Prof. Chittattaranjan Hota, BITS Pilani Hyderabad. INR 61,95,000. I am an external advisor for the project. 2012 – 2015
- TCS Research Fellowship Program. With Anupama Aggarwal. 2012 – 2016. Ph.D. Thesis Advisor. INR 16,70,000
- Department of Science and Technology (DST), Government of India. Under Indo-Ireland Cooperative Science Programme. An inter-disciplinary approach towards building ontology for online extremism. 2011 - 2013. PI. INR 8,36,000
- TCS Research Fellowship Program. With Niharika Sachdeva. 2012 – 2016. Ph.D. Thesis Advisor. INR 16,70,000
- TCS Research Fellowship Program. With Paridhi Jain. 2010 – 2014. Ph.D. Thesis Advisor. INR 16,70,000
- Department of Electronics and Information Technology (DeitY), Government of India. Analyzing Online Content Using Data Mining Techniques to Counter Cyber Crime. 2010 – 2013. PI. INR 81,00,000
- International Development Research Centre (IDRC), Canada and Privacy International, UK. Privacy in India. 2010 – 2012. PI. INR 18,00,000

TECHNOLOGIES DEVELOPED / DEPLOYED

- Awaaz: My Voice: An application built on the Freebasics platform which helps in getting citizens to mark their complaints to be raised to the Government. Currently deployed in Africa. Awaaz receives 320+ active users accessing the service everyday.
- Bugle News: We built an RSS aggregator service called Bugle News that fetches RSS feeds from news organizations including BBC, CNN, and Reuters, and provides users with corresponding headlines. We built this system on the Freebasics platform. The news stories are organized by topic and country. Users using Bugle News would see these news snippets aggregated from different sources, categorized into eight high level topics (World News, Africa, Asia, America, Science, Sports, Movies&Entertainment and Jobs&Career). There were additional lower level topics for nine countries: South Africa, Zambia and Nigeria within Africa; Philippines, Bangladesh and Pakistan within Asia; and Colombia, Peru and Mexico within America; and two specific sports: Cricket and Football within Sports. The service was offered in English between September 17th and December 15, 2016 and has been available in English, French and Spanish since December 16, 2016. In total, we have had 100,000+ unique visitors to Bugle News until 31st March 2017. On average, we get 1,400 hits on the Bugle news everyday.
- Facebook Inspector (FbI), a REST API based browser plug-in for identifying malicious Facebook posts in real time. From the release date, Aug 2015, FbI is downloaded over 2,500 times. FbI received close to 3 million requests (both public and private posts), and out of these FbI evaluated 1+ Million unique public posts. We hit a record 182 daily active users on June 8, 2016. Plugin is available at <https://addons.mozilla.org/en-US/firefox/addon/fbi-facebook-inspector/>
- Facebook Profile Analyser. A tool that analyses a Facebook profile to give some interesting analysis like: the different posts done by the profile (status updates, pictures, links, etc.); top 9 profiles that has liked the most number of time of the input profile; yearly / monthly / weekly / daily activities; topics and location from the place where the profiles have posted. We have 630+ public profiles that have been analysed through the system. The system is publicly available at precog.iiitd.edu.in/fbanalysis
- AASMA: Advanced Application for Social Media Analytics. Fully developed at IIITD. Requested by more than 75+ state and federal government agencies and armed forces in India.

- PhishGuru: A System for Educating Users about Semantic Attacks and Anti-Phishing Phil: A game that teaches people on how to identify malicious links and URLs. Both PhishGuru and Phil are part of technologies that are sold by Wombat Security Technologies. My Ph.D. thesis was instrumental in spinning off this company in Pittsburgh. Currently the company has many full time employees other than founding faculty and then students like me. <http://www.wombatsecurity.com/> Wombat has raised multi million dollars (USD) and the services are being used by government agencies in the US, and other industry organizations. Recently, it raised series B funding for USD 6.7 million. Wombat received multiple awards, a few: Global Excellence Award for Security Training and Educational Programs; Top Tech Company to Watch in Pittsburgh; Gold Winner of Information Security Product's Guide "Tomorrow's Technology Today"; Bronze Winner of Information Security Product's Guide "New Product Award". Other industry organizations both in India and abroad have used the techniques and approaches developed in PhishGuru and Phil to develop their products, e.g. PhishMe, Cognix. Updated as of Summer 2015.
- A shoot out of my Ph.D. work called APWG Education Landing page <http://phish-education.apwg.org/> is serving 14 million hits per year and it is translated into 21 languages. Updated as of Summer 2015.
- TweetCred, A Chrome browser plugin to analyse credibility on Twitter. <http://twitdigest.iiitd.edu.in/TweetCred/> As of Sept 2014, 1500+ Active users and analyzed 12+ million tweets. Updated as of Summer 2015.
- PhishAri, a Chrome browser plugin to analyze a given URL in a tweet as phishing or legitimate. <http://precog.iiitd.edu.in/cyber-crime.html#phishari> Analysed 350,000 URLs in real world. Work around this has produced 2 best paper awards. Updated as of Summer 2015.
- Backpack. A Learning Management System. The idea is a fall out from the course Designing Human Centered Systems (4 credits, taught in Fall 2012). We have registered a company Backpack Labs around this technology. Web application went online on Aug 1, 2013, total number of courses offered until now are 275 with 4,697 unique users (as on April 2015) in the system. The Android application went online on Dec 1, 2013 with 476 downloads until now. We have 150 active users per day on the Android App. System is 25,000+ LOC and has received over 1000+ feedback mails since launch. Backpack is being used at IIIT-Delhi, IIT Kanpur, IIIT Hyderabad, IIT Bombay, IIT Kharagpur, IIT Madras, IISc Bangalore and many other institutes across India. Updated as of Summer 2015.
- Wizers wizers.com A anonymous social networking service. We have a total of 4,500 users. 13,000 posts and photos have been shared. In last 4 months we acquired more than 2,100 users. Interactions served are around 32,000 and total logins are around 21,000. Technology has already been transferred (made real money) to a company in Delhi and they are looking at building a startup around it in the US. Wizers selected as one of the "Top150 Startup" in the Pioneers Challenge <http://pioneers.io/> Updated as of Summer 2015.
- MeriAwaaz <http://meriawaazapp.com/> An App to help get the voice of citizens to the Government. 900+ downloads with 1.6 lakhs engagements until April 2015 and approx 20 posts per day on the Dashboard. Already made real money from sales, many deals done with pending deployment. It is currently being used by political parties in Delhi. Updated as of Summer 2015.
- Ingage. ingagelive.com Deployed in two organizations where they have paid us for the product and service. One is a Retail Store, and the other one is in Hospitality industry. Updated as of Summer 2015.
- Fair Fare. A system to find the Fare and directions through Autorickshaws, Bus, and Metro in Delhi. Available in both Android and Windows. There are 340 Android users, and 47 of them have rated the app with an average of 4.38 on 5 scale. Updated as of Summer 2015.
- OCEAN. Open-source Collation of eGovernment data And Networks. A system where you can search for any citizens in Delhi and the system will return information like Drivers License number, PAN card details, etc. We have used all the publicly available information for doing this analysis. 1,000+ users have used the system. Updated as of Summer 2015.
- Tour De Delhi App helps in getting information about tourist spots in Delhi. The App was built as part of CSE 501: Designing Human Centered Systems course in Spring 2014.

PATENTS / FILED

- Payal Bajaj, Mridul Kavidayal, Priyanshu Srivastava, Md Nadeem Akhtar, and Shriram Revankar. A method for Auditing and Augmenting User-generated Tags for Digital Content. P5680. United States Patent Office, filed in 2015 (Patent pending).
- Balaji Srinivasan, Shriraj Bhardwaj, Akash Verma, and Priyanja Singh. Monitoring Social Media for Breach of Organizational Privacy. P5690. United States Patent Office, filed in 2015 (Patent pending).
- Rishiraj Saha Roy, Guna Prasaad Jeganathan, Aishwarya Padmakumar, and Ponnurangam Kumaraguru. Automated Linguistic Personalization of Ad Messages for Targeted Campaigns. Patent application number P4592-US, United States Patent Office, filed in 2014 (Patent pending).
- Kokil Jaidka, Niyati Chhaya, Prakhar Gupta, Sajal Rustagi, Kaushik Ramachandran, Ponnurangam Kumaraguru. Tracking Changes in User-Generated Textual Content on Social Media Computing Platforms. Patent application number P5160-US, United States Patent Office, filed in 2014 (Patent pending).
- Niyati Chhaya, Deepak Pai, Dhwanit Agarwal, Nikaash Puri, Paridhi Jain, and Ponnurangam Kumaraguru. Automatic Aggregation of Online User Profiles. Patent application number P4606US01. United States Patent Office, filed in 2014 (Patent pending).

INTERNATIONAL COLLABORATIONS

Current:

- Max Planck Institute for Software Systems, Saarbrücken, Germany. Collaborator: Dr. Krishna Gum-madi. Summer 2016 - Present.
- ETH Zurich. Collaborator: Dr. David Garcia. Summer 2016 - Present.
- GaTech, Atlanta / USA. Collaborator: Prof. Mustaque Ahamad, April 2014 - Present & Prof. Munmun De Choudhury, Fall 2015 - Present.
- Adobe Research Labs, Bengaluru, India. Collaborator: Dr. Niyati Chhaya. Summer 2014 - Present.
- IBM Research Labs, Delhi, India. Collaborator: Dr. Sameep Mehta. Summer 2016 - Present.
- Ebiquty research group at University of Maryland Baltimore County (UMBC), USA. Collaborator: Prof. Anupam Joshi. Jan 2012 - Present.
- Information Sciences Institute (ISI) of University of South California (USC), USA. Collaborators: Prof. Kristina Lerman and Prof. Emilio Ferrara. Jan 2011 - Present.

Past:

- Center for Interdisciplinary Studies in Security and Privacy (CRISSP) at NewYork University Abu Dhabi. Collaborators: Prof. Nasir Memon, Prof. Mustaque Ahamad, Dr. Payas Gupta. April 2014 - Fall 2016.
- Qatar Computing Research Institute (QCRI), Qatar. Collaborators: Dr. Carlos Castillo and Dr. Patrick Meier. Spring 2014 - Fall 2015.
- SPIES (Security and Privacy in Emerging Computing and networking Systems) research group at University of Alabama, USA. Jan 2012 - May 2014.
- Department of Computer Science (DCC), Federal University of Minas Gerais (UFMG), Brazil. Col-laborators: Prof. Virgilio Almeida, Prof. Fabricio Benevenuto, and Prof. Wagner Meira. June 2011 - Jan 2014.
- School of Law and Government, Dublin City University, Ireland. Collaborator: Prof. Maura Conway. Jan 2012 - Fall 2014.
- School of Law and Government, Limerick University, Ireland. Collaborator: Prof. Lisa McInerney. Jan 2012 - July 2013.
- Computer Science Department (DECOM) of Federal University of Ouro Preto (UFOP), Brazil. Col-laborator: Prof. Fabricio Benevenuto. Aug 2010 - Dec 2011.

- Institute of Information Security, ETH Zurich. Collaborator: Prof. Srdjan Capkun. Nov 2009 - July 2011.

ACADEMIC ADVISING

- Graduated Ph.D. students (Information only on what they do just after graduation)
 - Niharika Sachdeva. Social Media and Policing: Computational Approaches to Enhancing Collaborative Action between Residents and Law Enforcement. 2011 - 2017. First job as Senior Scientist at Philips Research, Bengaluru.
 - Paridhi Jain. Automated Methods for Identity Resolution across Online Social Networks. 2010 – 2016. First job at Xerox Research Centre India (XRCI), Bengaluru.
 - Aditi Gupta. Designing and Evaluating Techniques to Mitigate Misinformation Spread on Microblogging Web Services. 2010 – 2015. First job at University of Maryland, Baltimore County (UMBC), USA.
- Current Ph.D. students
 - Rishabh Kaushal (2015 - Present)
 - Srishti Gupta (2013 - Present)
 - Anupama Aggarwal (2012 - Present)
 - Prateek Dewan (2012 - Present)
- Graduated M.Tech. students (Thesis advisor) (Information only on what they do just after graduation)
 - Srishti Chandok, 2017, Nucleus Software
 - Mayank Verma, Jaypee Institute of Information Technology (JIIT), 2017. Co-Advised with Anuradha Gupta, JIIT
 - Sonal Goel, IIITD, 2014. Research Associate, IIITD
 - Pradyumn Nand, IIITD, 2014. MakeMyTrip, Delhi
 - Abhishek Bhola, IIITD, 2014, Currently at Hikari Tsushin Inc., Japan
 - Sudip Mittal, IIITD, Dual degree, Currently a Ph.D. student at University of Maryland Baltimore County (UMBC), USA
 - Neha Gupta, IIITD, 2014, Currently at EMC²
 - Prachi Jain, IIITD, 2013, Currently a Ph.D. student at Indian Institute of Technology, Delhi (IITD)
 - Srishti Gupta, IIITD, 2013, Currently a Ph.D. student at IIITD
 - Sandhya Krishnan, UMBC, 2013, Currently at Walmart Labs, USA
 - Tatiana Pontes Soares Rocha, UFMG, 2013
 - Anupama Aggrawal, IIITD, 2012, Currently a Ph.D. student at IIITD
 - Tiago Rodrigues de Magalhes, UFMG, 2012, Currently at SambaTech, Brazil
 - Komal Sachdeva, IIITD, 2012, Currently at Microsoft India
- Current M.Tech. students (Thesis advisor)
 - Gurpriya Kaur Bhatia, IIITD, 2017 - Present
 - Simran Saxena, IIITD, 2017 - Present
 - Indira Sen, IIITD, 2016 - Present
- Current Full-time Research Associates
 - Sonu Gupta, May 2017 - Present
 - Sonal Goel, July 2016 - Present

- Neha Jawalkar, April 2016 - Present
- Divyansh Agarwal, April 2016 - Present
- Kushagra Bhargava, April 2016 - Present
- Past Research Associates
 - Saravana Kumar, Dec 2016 - May 2017
 - Yatharth Sharma, April 2015 - Aug 2016
 - Gandeewan R, September 2015 - April 2016
 - Dushyant Dhyani, July 2015 - Dec 2015
 - Archit Srivastava, May 2016 - July 2016
 - Nilaksh Das, June 2014 - July 2015
 - Mayank Gupta, July 2013 - July 2014
- Graduated UG students (Thesis advisor) (Information only on what they do just after graduation)
 - Ayush Shah, IIITD, 2017, IBM-IRL
 - Bhavna Nagpal, IIITD, 2017, IIT Guwahati
 - Juhi Bhatnagar, IIITD, 2017, Rice University
 - Mayank Vachher, IIITD, 2017, Simon Fraser University
 - Aditi Mithal, IIITD, 2017, UCLA
 - Amod Kant Agrawal, IIITD, 2017, UIUC
 - Megha Arora, IIITD, 2016. Pursuing Master in Computer Science at Carnegie Mellon University
 - Manan Gakhar, IIITD, 2016
 - Shashank Gautam, IIITD, 2016. KPMG Delhi.
 - Danish Goel, IIITD, 2016
 - Shrey Gupta, IIITD, 2016
 - Ananya Harsh Jha, IIITD, 2016
 - Rohan Katyal, IIITD, 2016. Pursuing Master in Human Computer Interaction at GeorgiaTech
 - Mansi Panwar, IIITD, 2016
 - Srishty Saha, IIITD, 2016. Pursuing Master in Computer Science at UMBC, USA
 - Jayasi Mehar, IIITD, 2015, UrbanClap, starting Summer 2015
 - Apoorv Singh, IIITD, 2015, Myntra, Bengaluru starting Summer 2015
 - Nilaksh Das, Delhi Technical University, 2014, Currently pursuing Masters in Computer Science at Georgia Tech, USA
 - Raghav Anand, IIITD, 2014, Pursuing Masters in HCI in Carnegie Mellon University
 - Sampoorna Biswas, IIITD, 2014, Pursuing Masters in CS at University of British Columbia, Canada
 - Karan Gupta, IIITD, 2014, Pursuing Masters in CS / HCI at University of Washington
 - Apoorv Narang, IIITD, 2014. Co-Founded Backpack – Pursuing Masters in HCI in Carnegie Mellon University starting Fall 2015
 - Apoorv Saini, IIITD, 2014. Employed at Hikari Tsushin Inc. – Workomg full time on Wizters as a startup starting Summer 2015
 - Aditya Kumar Nayak. IIITD, 2014. Co-Founded Ingage & Meri-Awaaz
 - Akshit Chhabra, Delhi Technical University, 2013. Employed at Housing.com
 - Kanika Goyal, Delhi Technical University, 2013, Employed at Microsoft India

- Mayank Gupta, Delhi Technical University, 2013. Research Associate at IIIT Delhi – Pursing Masters in Computer Science at Georgia Tech, USA starting Fall 2014. Working at Apple Inc. as of Fall 2016.
- Mayank Pundir, IIITD, 2013, Completed Masters in Computer Science at University of Illinois at Urbana-Champaign (UIUC), USA. Joined Facebook, Hacker Way in Fall 2015
- Raghav Sethi, IIITD, 2013, Completed Masters in Computer Science at Princeton University, USA. Joined Facebook, Hacker Way in Fall 2015
- Soumya Vardhan Singh, IIITD, 2014. Employed at Adobe India
- Vani Sivasankar, IIITD, 2013. Employed at Adobe India
- Ashwin Rajadesingan, VIT University, 2012. Finished Masters in CS at Arizona State University, USA and employed at Doximity, California.
- Kanika Narang, IIITD, 2012, Currently pursuing Ph.D. in CS at University of Illinois at Urbana-Champaign (UIUC), USA
- Hemank Lamba, IIITD, 2012, Currently pursuing Ph.D. in CS at Carnegie Mellon University
- Sidhartha Chhabra, Delhi Technical University, 2011, Currently pursuing Ph.D. in CS at Michigan State University
- Dipesh Kumar Singh, Sikkim Manipal Institute of Technology (SMIT), Sikkim, Employed at TCS, India
- Sunil Kumar Ghai, Delhi Technical University, 2010. Employed at IBM Research Labs, India, 2010 to 2015 – Doing a startup in Bengaluru starting 2015
- Current UG students (Thesis advisor)
 - Karan Grover, IIITD, graduating in 2017
 - Tushar Gupta, IIITD, graduating in 2017
 - Shrey Bagroy, IIITD, graduating in 2018
 - Varun Bansal, IIITD, graduating in 2018
 - Kushagra Singh, IIITD, graduating in 2018
 - Lohitaksh Parmar, IIITD, graduating in 2018
 - Mansi Goel, IIITD, graduating in 2018
 - Nalin Gupta, IIITD, graduating in 2018
 - Sahar Siddiqui, IIITD, graduating in 2018
 - Siddharth Singh, IIITD, graduating in 2018
 - Anshuman Suri, IIITD, graduating in 2018

ENTREPRENEURSHIP EXPERIENCE

Saarthi, iSPIRT. <http://www.ispirt.in/> Oct 2014 - Fall 2015 .

Inventor, Wombat Security Technologies, Pittsburgh, USA. wombatsecurity.com

Co-Founder and Advisor, Backpack Labs Limited, India. backpacklabs.in

Co-Founder and Advisor, Wizters, India. wizters.com

Co-Founder and Advisor, MeriAwaaz, India. <http://meriawaaz.com/>

Co-Founder, Innovate Delhi Entrepreneurship Academy, India. innovatedelhi.com

Advisor, Ingage, India. ingagelive.com

Faculty Advisor, Find A Way, India. findaway.in

CONSULTING

- Advisor, Bosch India, Bengaluru, Jan 2017 - Present
- Data Security Council of India, Aug 2015 - Feb 2016
- PwC, Delhi, India, Dec 2014 - March 2015
- MixOrg, Technical Advisor, Delhi, India, Jan 2014 - Jan 2015
- Innefu Labs Pvt.Ltd., Delhi, India, Feb 2011 - Sept 2011
- IBM, India Research Lab (IRL), Delhi, India, Feb 2010 - July 2010

SELECTED PUBLICATIONS

Book Chapters

- Dewan, P., Bagroy, S., and Kumaraguru, P. Hiding in Plain Sight: The Anatomy of Malicious Pages on Facebook. Lecture Notes in Social Networks. Springer, 2017.
- Gupta, A., Kumaraguru, P. Misinformation on Twitter during Crisis Events. Encyclopedia of Social Network Analysis and Mining (ESNAM). Springer publications. 2012.

Journal

- Mohamed, M., Gao, S., Sachdeva, N., Saxena, S., Zhang, C., **Kumaraguru, P.**, and van Oorschot, J. On the Security and Usability of Dynamic Cognitive Game CAPTCHAs. Accepted in Journal of Computer Security (JCS), 2017.
- Dewan, P., **Kumaraguru, P.** Facebook Inspector (FbI): Towards Automatic Real Time Detection of Malicious Content on Facebook. Accepted at Journal of Social Network Analysis and Mining (SNAM), 2017. Volume 7, Issue 1. The final publication is available at link.springer.com
- Jain, P., **Kumaraguru, P.**, and Joshi, A. Other Times, Other Values: Leveraging Attribute History to Link User Profiles across Online Social Networks. Journal of Social Network Analysis and Mining (SNAM), 2016.
- **Kumaraguru, P.**, Sheng, S., Acquisti, A., Cranor, L., and Hong, J. *Teaching Johnny Not to Fall for Phish*. In Association for Computing Machinery's Transactions on Internet Technology (TOIT). 2009.
- Karat, J., Bertino, E., Li, N., Ni, Q., Brodie, C., Lobo, J., Calo, S. B., Cranor, L. F., **Kumaraguru, P.**, and Reeder, R. W. *A Policy Framework for Security and Privacy Management*. IBM Journal of Research and Development, Harmonizing Security and Privacy, Volume 53, Number 2, 2009.

Conferences and Workshops

- Goel, S., Ahuja, S., Subramanyam, A., Kumaraguru, P. #VisualHashtags: Visual Summarization of Social Media Events Using Mid-Level Visual Elements. Accepted at 25th ACM Conference on MultiMedia 2017.
- Kaushal, R., Chandok, S., Jain, P., Dewan, P., Gupta, N., Kumaraguru, P. Nudging Nemo: Helping Users Control Linkability across Social Networks. Accepted at 9th International Conference on Social Informatics, 2017.
- Prateek Dewan, Anshuman Suri, Varun Bharadhwaj, Aditi Mithal and Ponnurangam Kumaraguru. Towards Understanding Crisis Events On Online Social Networks Through Pictures. Accepted at IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2017). 19% acceptance rate.
- Nikhil Pattisapu, Manish Gupta, Ponnurangam Kumaraguru and Vasudeva Varma. Medical Persona Classification in Social Media. Accepted at IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2017). 19% acceptance rate.

- Aishwarya N Reganti, Tushar Maheshwari, Amitava Das, Tanmoy Chakraborty, Ponnurangam Kumaraguru. Understanding Psycho-Sociological Vulnerability of ISIS Patronizers in Twitter. Accepted IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2017). Poster.
- Siddharth Singh, Vedant Nanda, Rijurekha Sen, Sohaib Ahmada, Satadal Sengupta, Amreesh Phokeer, Zaid Ahead Farooq, Taslim Arefin Khan, Ponnurangam Kumaraguru, Ihsan Ayyub Qazi, David Choffnes, Krishna Gummadi. An Empirical Analysis of Facebook's Free Basics. ACM SIGMETRICS 2017. Poster.
- Lamba, H., Bharadhvaj, V., Vachher, M., Agarwal, D., Arora, M., Sachdeva, N., **Kumaraguru, P.** From Camera to Deathbed: Understanding Dangerous Selfies on Social Media. Accepted as Poster at the 11th International Conference on Web and Social Media (ICWSM), 2017. Poster.
- Bagroy, S., **Kumaraguru, P.**, and De Choudhury, M. A Social Media Based Index of Mental Well-Being in College Campuses. Accepted at the 34th Annual ACM Conference on Human Factors in Computing Systems (CHI), 2017.
- Sachdeva, N. and **Kumaraguru, P.** Call for Service: Characterizing and Modeling Police Response to Serviceable Requests on Facebook. Accepted at 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) 2017.
- Halevi, T., Memon, N. D., Lewis, J., **Kumaraguru, P.**, Arora, S., Dagar, N., Aloul, F. A., and Chen, J. Cultural and Psychological Factors in Cyber-Security. Accepted at 18th International Conference on Information Integration and Web-based Applications & Services (iiWAS2016).
- Gupta, S., Gupta, P., Ahamad, M., and **Kumaraguru, P.** Exploiting Phone Numbers and Cross-Application Features in Targeted Mobile Attacks. Accepted at the 6th Workshop on Security and Privacy in Smartphones and Mobile Devices (SPSM), 2016.
- Kaushal, R., Saha, S., Bajaj, P., and **Kumaraguru, P.** KidsTube: Detection, Characterization and Analysis of Child Unsafe Content & Promoters on YouTube. Accepted at Privacy Security and Trust (PST), 2016.
- Jain, P., **Kumaraguru, P.**, and Joshi, A. Other Times, Other Values: Leveraging Attribute History to Link User Profiles across Online Social Networks. Accepted at Journal of Social Network Analysis and Mining (SNAM), 2016.
- Goel, S., Sachdeva, N., **Kumaraguru, P.**, Subramanyam, A., and Gupta, D. PicHunt: Social Media Image Retrieval for Improved Law Enforcement. Accepted at 8th International Conference on Social Informatics. 2016.
- Bajaj, P., Kavidayal, M., Srivastava, P., Akthar M., and **Kumaraguru, P.** Disinformation in Multimedia Annotation: Misleading Metadata Detection on YouTube. Accepted at ACM Multimedia 2016 Workshop: Vision and Language Integration Meets Multimedia Fusion. 2016.
- Dewan, P., Bagroy, S., and **Kumaraguru, P.** Hiding in Plain Sight: Characterizing and Detecting Malicious Facebook Pages. Accepted at IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2016 (Short Paper).
- Sachdeva, N., **Kumaraguru, P.** and Choudhury, M. - Social Media for Safety: Characterizing Online Interactions between Citizens and Police. Accepted at 30th British Human Computer Interaction Conference (BHCI) 2016.
- Sachdeva, N., and **Kumaraguru, P.** Online Social Media - New face of policing? A Survey Exploring Perceptions, Behavior, Challenges for Police Field Officers and Residents. Accepted at 18th International Conference on Human-Computer Interaction.
- Jain, P., and **Kumaraguru, P.** On the Dynamics of Username Changing Behavior on Twitter. Accepted at 3rd IKDD Conference on Data Science, 2016.
- Lerman, K., Arora, M., Marin, L., **Kumaraguru, P.**, and Garcia, D. Emotions, Demographics and Sociability in Online Interactions. Accepted at ICWSM 2016.

- Sachdeva, N., and **Kumaraguru, P.** Online Social Media - New face of policing? A Survey Exploring Perceptions, Behavior, Challenges for Police Field Officers and Residents. Accepted at 18th International Conference on Human-Computer Interaction 2016.
- Jain., P., **Kumaraguru, P.** On the Dynamics of Username Changing Behavior on Twitter. 3rd IKDD Conference on Data Science, 2016.
- Jain., P., **Kumaraguru, P.**, and Joshi, A. Other Times, Other Values: Leveraging Attribute History to Link User Profiles across Online Social Networks. Accepted at the 26th ACM Conference on Hypertext and Social Media (Hypertext) 2015.
- Aggarwal, A., and **Kumaraguru, P.** What They Do in Shadows: Twitter Underground Follower Market. Accepted at the 13th International Conference on Privacy, Security and Trust (PST), 2015.
- Dewarn, P., and **Kumaraguru, P.** Towards Automatic Real Time Identification of Malicious Posts on Facebook Accepted at the 13th International Conference on Privacy, Security and Trust (PST), 2015.
- Sachdeva, N., and **Kumaraguru, P.** Online Social Networks and Police in India – Understanding the Perceptions, Behavior, Challenges. Accepted at the European conference on Computer-Supported Cooperative Work (ECSCW) 2015.
- Roy, R., Padmakumar, A., Jeganathan, G., and **Kumaraguru, P.** Automated Linguistic Personalization of Targeted Marketing Messages Mining User-generated Text on Social Media. Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics 2015 (CICLing '15). **Best paper award.**
- Sachdeva, N., and **Kumaraguru, P.** Social Networks for Police and Residents in India: Exploring Online Communication for Crime Prevention. 16th Annual International Conference on Digital Government Research. 2015. **Best paper award.**
- Gupta, A., **Kumaraguru, P.**, Castillo, C., and Meier, P. TweetCred: Real-Time Credibility Assessment of Content on Twitter. Accepted at The 6th International Conference on Social Informatics. **Best Paper Nominees (honorable mention).**
- Gupta, N., Aggarwal A. and **Kumaraguru, P.** bit.ly/malicious: Deep Dive into Short URL based e-Crime Detection. 9th Anti-Phishing Working Group (APWG) eCrime Research Symposium (eCRS), 2014. **Best paper award.**
- Gupta, S., and **Kumaraguru, P.** Emerging Phishing Trends and Effectiveness of the Anti-Phishing Landing Page. 9th Anti-Phishing Working Group (APWG) eCrime Research Symposium (eCRS), 2014.
- Dewan, P., Kashyap, A., **Kumaraguru, P.** Analyzing Social and Stylometric Features to Identify Spear phishing Emails. Accepted at 9th Anti-Phishing Working Group (APWG) eCrime Research Symposium (eCRS), 2014.
- Mittal, S., Gupta, N., Dewan, P., **Kumaraguru, P.** Pinned it! A large scale study of the Pinterest network. Accepted at the 1st ACM IKDD Conference on Data Sciences (CoDS), 2014.
- Mohamed, M., Sachdeva, N., Georgescu, M., Gao, S., Saxena, N., Zhang, C., **Kumaraguru, P.**, Van Oorschot, P., and Chen, W. A Three-Way Investigation of a Game-CAPTCHA: Automated Attacks, Relay Attacks and Usability. Accepted at 9th ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2014.
- Sachdeva, N., Saxena, N., and **Kumaraguru, P.** On the Viability of CAPTCHAs for Use in Telephony Systems: A Usability FieldStudy. 16th Information Security Conference November 13-15 in Dallas, Texas.
- Dewan, P., Gupta, M., Goyal, K., and **Kumaraguru, P.** MultiOSN: Realtime Monitoring of Real World Events on Multiple Online Social Media. Accepted at I-CARE 2013.
- Gupta, A., Lamba, H., and **Kumaraguru, P.** \$1.00 per RT #BostonMarathon #PrayForBoston: Analyzing Fake Content on Twitter. Accepted at IEEE APWG eCrime Research Summit (eCRS), 2013.

- Jain, P., Jain, P., and **Kumaraguru, P.** Call Me MayBe: Understanding Nature and Risks of Sharing Mobile Numbers on Online Social Networks. Accepted at the Conference on Online Social Networks (COSN 2013).
- Narang, K., Lerman, K., and **Kumaraguru, P.** Network Flows and the Link Prediction Problem. Accepted at the 7th workshop on Social Network Mining and Analysis (SNAKDD) 2013.
- Panjwani, S., Ghosh, M., Singh, S., and **Kumaraguru, P.** The Paper Slip Should be There: Perceptions of Transaction Receipts in Branchless Banking. Accepted at Mobile HCI 2013.
- Lerman, K., Jain, P., Ghosh, R., Kang, J., and **Kumaraguru, P.** In Proceedings of International Conference on Social Intelligence and Technology (SOCIETY). 2013.
- Magalhes, T., Dewan, P., **Kumaraguru, P.**, Melo-Minardi, R., Almeida, V. uTrack: Track Yourself! Monitoring Information on Online Social Media. Accepted at the 22nd International World Wide Web Conference (WWW) (2013). Demo track.
- Gupta, A., Lamba, H., **Kumaraguru, P.**, Joshi, A. Faking Sandy: Characterizing and Identifying Fake Images on Twitter during Hurricane Sandy. Accepted at the 2nd International Workshop on Privacy and Security in Online Social Media (PSOSM), in conjunction with the 22th International World Wide Web Conference (WWW) (2013).
- Jain, P., **Kumaraguru, P.**, Joshi, A. @I seek 'fb.me': Identifying Users across Multiple Online Social Networks. Accepted at the 2nd International Workshop on Web of Linked Entities (WoLE), in conjunction with the 22th International World Wide Web Conference (WWW) (2013).
- Aggarwal, A., Almeida, J., **Kumaraguru, P.** Detection of Spam Tipping Behaviour on Foursquare. Accepted at the 2nd International Workshop on Mining Social Network Dynamics (MSND), in conjunction with the 22th International World Wide Web Conference (WWW) (2013).
- Ottoni, R., Pesce, J., Casas, D., Franciscani, G., Meira, W., **Kumaraguru, P.**, Almeida, V. Ladies First: Analyzing Gender Roles and Behaviors in Pinterest. Accepted at The International AAAI Conference on Weblogs and Social Media (ICWSM) 2013.
- Yadav, K., Saha, S., **Kumaraguru, P.**, Kumra, R. Take Control of Your SMSes: Designing an Usable Spam SMS Filtering System. Accepted at the 13th International Conference on Mobile Data Management (MDM) (2012). Demo track
- Pontes, T., Magno, G., Vasconcelos, M., Gupta, A., Almeida, J., **Kumaraguru, P.**, and Almeida, V. Beware of What You Share: Inferring Home Location in Social Networks. Accepted at Privacy in Social Data (PinSoda), in conjunction with International Conference on Data Mining (ICDM) (2012).
- Aggarawal, A., Rajadesingan, A., and **Kumaraguru, P.** PhishAri: Automatic Realtime Phishing Detection on Twitter. In Anti-Phishing Working Group e-Crime Researchers Summit (2012). **Best paper award.**
- Gupta, A., Joshi, A., and **Kumaraguru, P.** Identifying and Characterizing User Communities on Twitter during Crisis Events. Workshop on Data-driven User Behavioral Modelling and Mining from Social Media, Co-located with CIKM (2012).
- Pontes, T., Vasconcelos, M., Almeida, J., **Kumaraguru, P.**, and Almeida, V. We Know Where You Live: Privacy Characterization of Foursquare Behavior. Accepted at 4th International Workshop on Location-Based Social Networks (LBSN 2012).
- Malhotra, A., Totti, L., Meira, W., **Kumaraguru, P.**, and Almeida, V. Studying user footprints in different online social networks. Accepted at International Workshop on Cybersecurity of Online Social Network (CSOSN) (2012).
- Gupta, A., and **Kumaraguru, P.** Credibility ranking of tweets during high impact events. Workshop on Privacy and Security in Online Social Media, Co-located with WWW (2012).
- Asthana, S., Singh, P., **Kumaraguru, P.**, Singh, A., and Naik, V. Tring! tring! - An exploration and analysis of interactive voice response systems. IndiaHCI (2012).

- Jain, P., Rodrigues, T., Magno, G., **Kumaraguru, P.**, and Almeida, V. Cross-pollination of information in online social media: A case study on popular social networks. Third International Conference on Social Computing (2011).
- Rauber, G., Almeida, V., and **Kumaraguru, P.** *Privacy Albeit Late*. Seventeenth edition of WebMedia, Brazilian Symposium on Multimedia and the Web (2011).
- Chhabra, S., Aggarwal, A., Benevenuto, F., and **Kumaraguru, P.** *Phi.sh/\$oCiaL: The Phishing Landscape through Short URLs*. Accepted at 8th Annual Collaboration, Electronic messaging, Anti-Abuse and Spam Conference (CEAS 2011). **Best paper award**.
- Ion, I., Sachdeva, N., **Kumaraguru, P.**, and Capkun, S. *Home is Safer than the Cloud! Privacy Concerns for Consumer Cloud Storage*. Symposium on Usable Privacy and Security (SOUPS) (2011).
- Agarwal, V., Desai, V., Kapoor, S., **Kumaraguru, P.**, and Mittal, S. *Enhancing the Rural Self Help Group Bank Linkage Program*. IEEE International Conference on Service Operations and Logistics, and Informatics (2011).
- Gupta, A., Viswanathan, K. K., Joshi, A., Finin, T., and **Kumaraguru, P.** *Integrating Linked Open Data with Unstructured Text for Intelligence Gathering Tasks*. In Proceedings of the Information Integration on the Web (IIWeb), Co-located workshop at WWW (2011).
- Khot, R., Kannan, S., and **Kumaraguru, P.** *Marasim: A Novel Jigsaw Based Authentication Scheme using Tagging*. In Proceedings of the 29th international Conference on Human Factors in Computing Systems. CHI 2011. ACM.
- Adappa, S., Agarwal, V., Goyal, S., **Kumaraguru, P.**, and Mittal, S. *User Controllable Security and Privacy for Mobile Mashups*. HotMobile, 2011.
- Yadav, K., **Kumaraguru, P.**, Goyal, A., Gupta, A., and Naik, V. *SMSAssassin: Crowdsourcing driven mobile-based system for sms spam filtering*. HotMobile, 2011.
- **Kumaraguru, P.**, and Sureka, A. Anti - Terrorism in India. Terrorism and New Media: Building a Research Network. Dublin City University, Dublin, Ireland, 2010.
- Ghai, S. K., Nigam, P., and **Kumaraguru, P.** *Cue : A Framework for Generating Meaningful Feedback in XACML*. 3rd ACM Workshop on Assurable & Usable Security Conguration, in conjunction with CCS, 2010.
- Sureka, A., **Kumaraguru, P.**, Goyal, A., and Chhabra, S. *Mining YouTube to Discover Hate Videos, Users and Hidden Communities*. Accepted at Sixth Asia Information Retrieval Societies Conference, 2010.
- Yadav, K., Naik, V., Singh, A., Singh, P., **Kumaraguru, P.**, and Chandra, U. *Challenges and Novelities while using Mobile Phones as ICT Devices for Indian Masses*. ACM Workshop on Networked Systems for Developing Regions, 2010.
- Ion, I., Langheinrich, M., **Kumaraguru, P.**, and Capkun, S. *Influence of User Perception, Security Needs, and Social Factors on Device Pairing Method Choices*. Accepted at Symposium On Usable Privacy and Security, 2010.
- Sheng, S., Holbrook, M., **Kumaraguru, P.**, Cranor, L., and Downs, J. *Who Falls for Phish? A Demographic Analysis of Phishing Susceptibility and Effectiveness of Interventions*. In Proceedings of the 28th international conference on Human factors in computing systems (New York, NY, USA, 2010), CHI 10, ACM, pp. 373–382.
- Rengamani, H., **Kumaraguru, P.**, Chakraborty, R., and Rao, R. *The Unique Identification Number Project: Challenges and Recommendations*. Accepted at The Third International Conference on Ethics and Policy of Biometrics and International Data Sharing (ICEB), 2010.
- Sheng, S., **Kumaraguru, P.**, Acquisti, A., Cranor, L., and Hong, J. *Improving Phishing Countermeasures: An Analysis of Expert Interviews*. e-Crime Researchers Summit, Anti-Phishing Working Group, 2009.

- **Kumaraguru, P.**, Cranor, L., and Mather, L. *Anti-phishing landing page: Turning a 404 into a teachable moment for end users*. Conference on Email and Anti-Spam, 2009.
- **Kumaraguru, P.**, Cranshaw, J., Acquisti, A., Cranor, L., Hong, J., Blair, M. A., and Pham, T. *School of Phish: A Real-World Evaluation of Anti-Phishing Training*. Symposium On Usable Privacy and Security, 2009.
- **Kumaraguru, P.**, Sheng, S., Acquisti, A., Cranor, L., and Hong, J. *PhishGuru: Lessons From a Real World Evaluation of Anti-Phishing Training*. In e-Crime Researchers Summit, Anti-Phishing Working Group, October 15 - 16, 2008, Atlanta, USA.
- **Kumaraguru, P.**, Sheng, S., Acquisti, A., Cranor, L., and Hong, J. *Anti-Phishing Education*. In Proceedings of The International Conference on E-Learning in the Workplace (ICELW 2008).
- Sheedy, C., **Kumaraguru, P.** *A Contextual Method for Evaluating Privacy Preferences*. Policies and Research in Identity Management (IDMAN), October 11 - 12, 2007, Rotterdam, The Netherlands.
- **Kumaraguru, P.**, Rhee, Y., Sheng, S., Hasan, S., Acquisti, A., Cranor, L.F., and Hong, J. *Getting users to pay attention to anti-phishing education: Evaluation of retention and transfer*. In e-Crime Researchers Summit, Anti-Phishing Working Group, October 4 - 5, 2007, Pittsburgh, USA.
- Sheng, S., Magnien, B., **Kumaraguru, P.**, Acquisti, A., Cranor, L.F., Hong, J., and Nunge, E. *Anti-phishing phil: The design and evaluation of a game that teaches people not to fall for phish*. In SOUPS '07: Proceedings of the 3rd symposium on Usable privacy and security (New York, NY, USA, March 2007).
- **Kumaraguru, P.**, Cranor, L., Lobo, J., and Calo, S. *A survey of privacy policy languages*. Workshop on Usable IT Security Management (USM '07). In SOUPS '07: Proceedings of the 3rd symposium on Usable privacy and security (New York, NY, USA, March 2007), ACM, Symposium On Usable Privacy and Security.
- **Kumaraguru, P.**, Rhee, Y., Acquisti, A., Cranor, L. F., Hong, J., and Nunge, E. *Protecting people from phishing: the design and evaluation of an embedded training email system*. In CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems, New York, NY, USA, May, 2007, ACM Press, pp. 905 - 914.
- **Kumaraguru, P.**, Acquisti, A., and Cranor, L. *Trust modeling for online transactions: A phishing scenario*. In the proceedings of Privacy Security Trust, Oct 30 - Nov 1, 2006, Ontario, Canada
- **Kumaraguru, P.**, Cranor, L., and Newton, E. *Privacy Perceptions in India and the United States: An Interview Study*. In The 33rd Research Conference on Communication, Information and Internet Policy (TPRC), Sep 23 - Sep 25, 2005, The National Center for Technology and Law, George Mason University School of Law, USA.
- Diesner, J., **Kumaraguru, P.**, and Carley, K. *Mental Models of Data Privacy and Security Extracted from Interviews with Indians*. 55th Annual Conference of the International Communication Association (ICA), May 26-30, 2005. New York, NY.
- **Kumaraguru, P.**, and Cranor, L. *Privacy in India: Attitudes and Awareness*. In Proceedings of the 2005 Workshop on Privacy Enhancing Technologies (PET 2005), 30 May - 1 June 2005, Dubrovnik, Croatia.

Technical Reports

- Sachdeva, N., **Kumaraguru, P.** *Online Social Media and Police in India: Behavior, Perceptions, Challenges*.
- Sachdeva, N., and **Kumaraguru, P.** *Privacy4ICTD in India: Exploring Perceptions, Attitudes and Awareness about ICT Use*.
- Dewan, P., Gupta, M., Goyal, K., and **Kumaraguru, P.** *MultiOSN: Monitoring Multiple Online Social Networks During Real-World Events*.

- Jain, P., and **Kumaraguru, P.** Finding Nemo: Searching and Resolving Identities of Users Across Online Social Networks.
- **Kumaraguru, P.**, and Sachdeva, N. Privacy in India: Attitudes and Awareness V 2.0. Tech. rep., PreCog-TR-12-001, PreCog@IIIT-Delhi, 2012.
- Yadav, K., Malhotra, A., **Kumaraguru, P.**, Khurana, R., and Singh, D.K. Take Control Over your SMSes: A Real-World Evaluation of a Mobile-based SpamSMS Filtering System. IIITD-TR-2012-007, July 2012.
- Dewan, P., Gupta, M., and **Kumaraguru, P.** ChaMAiLeon: Simplified Email Sharing Like Never Before. IIITD-TR-2012-003, March 2012.
- Gupta, A., and **Kumaraguru, P.** Twitter Explodes with Activity in Mumbai Blasts! A Lifeline or an Unmonitored Daemon in the Lurking? IIITD-TR-2011-005, August 2011.
- **Kumaraguru, P.**, and Cranor, L. Privacy Indexes: A Survey of Westin's Studies. Tech. rep. CMU-ISRI-5-138, December 2005, Institute for Software Research International (ISRI), Carnegie Mellon University.
- Egelman, S., and **Kumaraguru, P.** DIMACS Workshop and Working Group Meeting on Usable Privacy and Security, DIMACS Center - Rutgers University, July 7 - 9 2004.

OTHER ACADEMIC PURSUITS

- Post Graduation Diploma in Personnel Management and Industrial Relations. Aug 1998 - May 1999. Annamalai University, India
- Post Graduate Diploma in Computer Applications. Aug 1997 - Aug 1998. Loyola Institute of Business Administration - Informatics Center, India

HONOURS & AWARDS

- Awarded commendation for teaching for CSE501 Designing Human Centered Systems. Winter 2016 semester, based on the feedback given by students from the course.
- Awarded commendation for teaching for CSE648: Privacy and Security in Online Social Media. Fall 2015 semester, based on the feedback given by students from the course.
- Awarded commendation for teaching for CSE501 Designing Human Centered Systems. Winter 2015 semester, based on the feedback given by students from the course.
- Best paper award. Aggarwal, A., and Kumaraguru, P. What They Do in Shadows: Twitter Underground Follower Market. 13th International Conference on Privacy, Security and Trust (PST), 2015.
- Best paper award. Social Networks for Police and Residents in India: Exploring Online Communication for Crime Prevention. Sachdeva, N., and Kumaraguru, P. 16th Annual International Conference on Digital Government Research. 2015.
- Best paper award. Roy, R., Padmakumar, A., Jeganathan, G., and Kumaraguru, P. Automated Linguistic Personalization of Targeted Marketing Messages Mining User-generated Text on Social Media. Proceedings of the 16th International Conference on Intelligent Text Processing and Computational Linguistics 2015 (CICLing '15).
- Best paper award. Gupta, N., Aggarwal A. and Kumaraguru, P. bit.ly/malicious: Deep Dive into Short URL based e-Crime Detection. In Anti-Phishing Working Group e-Crime Researchers Summit (2014).
- Best Paper Nominees (honorable mentions). TweetCred: Real-Time Credibility Assessment of Content on Twitter. Gupta, A., Kumaraguru, P., Castillo, C., and Meier, P. Accepted at The 6th International Conference on Social Informatics. 2014.
- Best B.Tech. thesis award. Engineering category. Backpack. Student: Apoorv Narang. 2014.
- Best B.Tech. thesis award. Entrepreneurship category. Ingage. Student: Aditya Kumar Nayak. 2014.

- Received Adobe Research Excellence Award for 2013 – 2016.
- Selected as one of the 11 ACM Eminent Speakers from the country by ACM. ACM India Council did the selection on their own, there was no call for nominations. 2014.
- Wombat named as Top Tech Company to Watch in Pittsburgh by NEXT Pittsburgh. March, 2014.
- Best poster award. Gupta, A., Lamba, H., Kumaraguru, P. Analyzing and Measuring Spread of Fake Content on Twitter during High Impact Events. Security and Privacy Symposium IIT, Kanpur, 2014.
- Wombat was Gold Winner of Information Security Product's Guide "Tomorrow's Technology Today," Bronze Winner of Information Security Product's Guide "New Product Award". March, 2014.
- Wombat was selected as a finalist for startup of the year for the Pittsburgh Technology Council's Tech 50 awards! Aug 2013,
- Wombat Security named as 2013 Hot Company award winner by Network Products Guide. May 2013.
- Best poster award. Gupta, S., Gupta, M., and Kumaraguru, P. OCEAN: Open source Collation of eGovernment data and Networks. Security and Privacy Symposium, IIT Kanpur. Feb 28 – 2 March, 2013.
- 2nd Runner's Up prize, Best poster award. Sachdeva, N., and Kumaraguru, P. U2P2: Understanding User Privacy Perceptions. Security and Privacy Symposium, IIT Kanpur. Feb 28 – 2 March, 2013.
- Best paper award. Aggarawal, A., Rajadesingan, A., and Kumaraguru, P. PhishAri: Automatic Real-time Phishing Detection on Twitter. In Anti-Phishing Working Group e-Crime Researchers Summit (2012).
- Wombat Security Technologies, Inc. won the 'Gold Winner' at The Golden Globe Awards for IT Training and Education. Oct 2012.
- SMSAssassin won the second prize at APP KRAFT competition. Oct 2012.
- PhishGuru 3.0 Wins PC Magazine's Editor's Choice for Anti-Phishing Products, June 2012
- Awarded commendation for teaching Foundations of Computer Security, Fall 2011 at IIIT-Delhi.
- 2nd Runner's Up prize. Gupta, A., Chhabra, A., and Kumaraguru, P. Twit-Digest. IBM I-CARE 2012.
- Hemant Bharat Ram Faculty Research Fellowship, Sep 2012 - Aug 2017
- Best paper award. Chhabra, S., Aggarwal, A., Benevenuto, F., and Kumaraguru, P. Phi.sh/\$oCiaL: The Phishing Landscape through Short URLs. In 8th Annual Collaboration, Electronic messaging, Anti-Abuse and Spam Conference (CEAS 2011).
- Awarded commendation for teaching Research Methods, Spring 2011 at IIIT-Delhi.
- Awarded commendation for teaching Foundations of computer security, Fall 2010 at IIIT-Delhi.
- Full financial scholarship for Ph.D. supported by Carnegie Mellon CyLab and NSF, Sep 2004 - May 2009
- Full financial scholarship for M.S., Software Systems by SlashSupport, Inc., Dec 2000 - May 2002
- Member of the "Best Stall Award" winning team at IT.com, India, Nov 2000
- Partial Financial Scholarship for High School, Apr 1992 - Apr 1994
- General Proficiency award in the Math talent Examination conducted by Gnanadheep Academy, March 1992

SERVICE

Government advisory roles / interactions

- Member of Project Review and Steering Group (PRSG). Design and Development of opinion mining and sentiment analysis of social media content to assess security threat. Indian Institute of Technology, Guwahati (IITG). Funded by Department of Electronics and Information Technology (DeitY). 2016 – 2018.
- Member of Review Committee. Information Security and Data Protection Policy. Defence Research & Development Organization. 2016.
- Member of a Prime Minister's Silver Cup Essay Competition - 2016. Committee comprises of 6 members, including nominee from Prime Minister's Office and Director of Sardar Vallabhbhai Patel National Police Academy, Hyderabad.
- Member of Project Management Review Committee. Analysis of IP Traffic over Satellite (SAMVAAD). Defence Research & Development Organization. 2015 – 2018.
- Member of a Committee for implementing the Open Source Intelligence Solution at National Intelligence Grid (NATGRID), Ministry of Home Affairs (MHA), Government of India. March 2016 - Present.
- Member of a Steering Committee for developing Early Warning System (EWS). Serious Fraud Investigation Office, Ministry of Corporate Affairs, Government of India. Jan 2016 - Present.
- Member of a Prime Minister's Silver Cup Essay Competition - 2015. Committee comprises of 6 members, including nominee from Prime Minister's Office and Director of Sardar Vallabhbhai Patel National Police Academy, Hyderabad. Topic of the essay is "Emergence of Social Media: Challenges and Opportunities for the Law Enforcement Agencies."
- Member of Project Management Review Committee. Analysis of IP Traffic over Satellite (SAMVAAD). Defence Research & Development Organization. 2015 – 2018.
- Member of a Working Group on Technology, setup under the Cybersecurity Task Force. This Task Force is setup by NASSCOM & DSCI upon a challenge by the Prime Minister of India. May 2015 - Dec 2015.
- Member of Review Committee. Technology Foresight Study taken up in partnership with C-DAC, Pune & DSCI, New Delhi. Information & Communication Security & Financial Sector Security. Funded by Technology Information, Forecasting and Assessment Council (TIFAC). 2015 – 2016.
- Member of Project Review and Steering Group (PRSG), Global, Regional and Domestic Factors Impacting India's Cyber Security, by Institute for Defence Studies and Analysis (IDSA), Delhi. Funded by Department of Electronics and Information Technology (DeitY). 2015 – 2017.
- Upon request from CBI HQ in Delhi, hosted 4 police officers from Royal Canadian Mounted Police at IITD, as part of their Delegation to India. April 21, 2015.
- Part of a 6 member delegation from India to attend the Indo-UK workshop on Underpinning the Development Data Revolution Social Media Data & Research. Organised by ICSSR - ESRC. January 9, 2015.
- Instrumental in setting up multiple Online Social Media Labs in the country. <http://timesofindia.indiatimes.com/city/meerut/Meerut-gets-2nd-social-media-lab-in-country-after-Mumbai/articleshow/48594285.cms>
- Member of a Sub-Group, Micro Mission, National Police Mission setup by the Bureau of Police Research and Development (BPR&D), Government of India. Jan 2015 – Present.
- Member of a delegation (4 members) from India to attend the First meeting of the Joint Committee on Science and Technology Peru-India in Lima. April 2014.
- Member of Committee to Evolve Long term Technology Perspective Plan (LTTPP) for DRDO. 2012 – 2014. Contributed in framing the DRDO Information Security Procedures and guidelines and drafting the Cyber Security section of the Plan.

- Member of Project Review and Steering Group (PRSG), Development of Active Honey-pot for Distributed Honey-net System, by C-DAC Mohali. Funded by Department of Electronics and Information Technology (DeitY). 2012 – 2014.
- Member of Project Review and Steering Group (PRSG), Development and Implementation of Reactive Roaming Scheme for Honey-pots, by IIITM Gwalior. Funded by Department of Electronics and Information Technology (DeitY). 2011 – 2012.
- Member of the Indo-Brazil Joint Commission on Science and Technology (JCST) setup by Department of Science and Technology. 2012.

Industry advisory roles / interactions

- Member of the Inaugural Asia Advisory Board of International Association of Privacy Professionals (IAPP). April 2016 – Present.
- Founding member of the CSO Forum Advisory Council, India, 2010 - Dec 2015.

University, IIIT Delhi

- Associate Dean of Alumni Relations and Communications. July 2017 - Present
- M.Tech. Co-ordinator, M.Tech. in Computer Science specialization in Information Security. Aug 2016 - Present
- Member of PGC, Aug 2016 – Present. April 2013 – Jan 2014
- Faculty Co-ordinator, Entrepreneurship activities, May 2014 - July 2015. Instrumental in setting up the Incubation Centre
- Member of many selection committees to recruit staff
- Principal architect for the MoU between IIITD & CISO Academy, Sept 2014
- Founding Head, Cybersecurity Education and Research Centre, Jan 2014 - Present. Instrumental in setting up the Centre
- Branding Coordinator, Aug 2013 – April 2014
- R & D Committee. Aug 2013 – Jan 2014
- Member of PGC, April 2013 – Jan 2014
- Member of 5th year Anniversary committee, April 2013 – Oct 2013
- Founding Alumni Relations Coordinator, IIIT Delhi, 2012 – 2013
- Founding M.Tech. Coordinator, IIIT Delhi, 2010 – 2012
- Founding faculty sponsor for the IIIT-Delhi ACM Student Chapter, IIIT-Delhi, 2010 – 2012
- Founding faculty patron for Research Showcase, 2010 – 2012
- Founding IIIT-Delhi Seminar Series Coordinator, 2009 – 2011
- Member of M.Tech. Student Admissions Committee, IIIT-Delhi, 2010 – 2011
- Member of Ph.D. Student Admissions Committee, IIIT-Delhi, 2010
- Member of the Senate, IIIT-Delhi, 2009 – 2011

Academic

- Co-Organizer Summer School on Privacy and Security in Online Social Media. 3 – 7 July, 2017.
- M.Tech. Thesis examiner, IIIT, May 2017
- Co-Organizer for Security and Privacy Symposium. 10 – 11 Feb, 2017.
- Program Committee member of ICWSM 2017

- ACM Distinguished Speaker. April 2016 - Present.
- Instructor, Workshop for School Teachers on Strategies for Safe and Effective Use of Online Social Media. May 2, 2015.
- Co-Organizer for Security and Privacy Symposium. 12 – 13 Feb, 2016.
- Technical PC Co-Chair, ACM Compute 2015 Conference, India.
- Co-Organizer for Security and Privacy Symposium. Attended by 150+ participants, including 40 faculty / researchers, and 60 students from all around India. 14 – 15 Feb, 2015.
- Committee member for evaluating scholars for Chevening TCS Cyber Policy Scholarship Programme. Dec 2, 2014.
- Co-Organizer for Social Design Jam. Attended by 65+ participants. 1 – 3 Aug, 2014.
- Co-Organizer Innovate Delhi Entrepreneurship Academy, India. innovatedelhi.com 120+ participants from all around the country attended the program. This program was co-organized with Stanford Business School.
- Co-Organizer for Security and Privacy Symposium. Played the role in conceptualizing this event until and organizing the complete technical aspects of the Symposium. Attended by 100 participants, including 40 faculty / researchers, and 60 students from all around India. 20 – 22 Feb, 2014.
- Taught 12 hours of lecture in Prof. Dheeraj Sanghi's course on Computer Security at IIT Kanpur. 13 – 16 Jan, 2014. Topics covered – Taught Privacy, Trust, and Social Engineering.
- Part of the Technical Advisory Committee for the ACM Conference on Online Social Networks (COSN), cosn.acm.org. Six of the best workshops on Online Social Media were merged to create this conference and we are looking at making this a single big conference in the area of Online Social Networks. Program Committee member: 2014. Publicity & Web Chair: 2013, 2014, 2015
- Co-organizer for the Workshop on Privacy and Security in Online Social Media, Co-located with WWW 2013, <http://precog.iiitd.edu.in/events/psosm2013/>
- Co-Organizer for Indo-UK workshop on Cybersecurity. Attended by a 14 member delegation from the UK and 15 member team from India. This was funded by Department of Science and Technology, India. 24 – 27 March, 2013. Infosys funded one day visit to the Hyderabad campus for the delegation. indouk-cs.iiitd.ac.in
- Co-Organizer for the Workshop on Consumer Privacy Around the Globe at the Global Privacy Summit, March 6 – 8, 2013. This was attended by about 30 privacy professionals around the globe. Washington DC, USA.
- Co-Organizer for Security and Privacy Symposium. Played the role in conceptualizing this event until and organizing the complete technical aspects of the Symposium. Attended by 100 participants, including 60 faculty / researchers, and 40 students from all around India. 28 Feb – 2 March, 2013. <http://www.cse.iitk.ac.in/users/sps2013/>
- Program Committee member for the International World Wide Web Conference, WWW 2013 – 2017.
- Program Committee member for 8th ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2013.
- Program Committee member for Sixth Workshop on Analytics for Noisy Unstructured Text Data (AND) collocated with COLING 2013.
- Co-organized a Tutorial with my Ph.D. student Aditi Gupta on Privacy and Security in Online Social Media. International Workshop on Information Security. 15 – 19 Dec, 2012.
- Co-organizer for the Workshop on Privacy and Security in Online Social Media, Co-located with WWW 2012,
- Co-organizer for the Internship Program in Technology Supported Education (IPTSE), Winter School 2011, <http://precog.iiitd.edu.in/ws2011/>

- Co-organized a one day workshop on Privacy and Security in Online Social Media, 23 July, 2011. CDAC-Hyderabad.
- Publicity Co-Chair, Thirteenth International conference on Mobile Data Management, 2012
- Reviewer for ACM's Transaction of the Web (TWEB)
- Program committee member for IEEE International Conference on Information Privacy, Security, Risk and Trust (PASSAT), 2011
- Reviewer for INTERACT 2011, Conference on Human-Computer Interaction
- Program committee member for Second Workshop on Ubiquitous Crowdsourcing, 2011
- Program committee member for 3rd International Workshop on Security in Cloud Computing (Cloud-Sec), 2011
- Program committee member of eCrime Researchers Summit, 2010, 2011
- Co-Organizer, Privacy and Security in Social Media: An International Perspective (PSSM), 2011
- Track Co-Chair, Spam & Security in Social Networks at Collaboration, Electronic Messaging, Anti-Abuse and Spam Conference (CEAS), 2011
- Program Committee, International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use, 2011
- Committee, Multidisciplinary paper on privacy, Computers, Privacy & Data Protection CPDP 2011
- Program Committee, IEEE Symposium on Computational Intelligence in Cyber Security (CICS), 2011
- External reviewer, Swiss National Science Foundation (SNSF), 2010
- Program Committee, ACM International Conference on Information and Knowledge Management (CIKM), 2010
- External Reviewer, Military Communications Conference, Unclassified Program, Track on Cyber Security and Network Management, 2010
- Program Committee, International Workshop on Security in Cloud Computing, 2010
- Program Committee, International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use, 2010
- Programme Committee, I-CARE (IBM-IRL Collaborative Academia Research Exchange), 2010
- Coordinating Editor, Information Systems Frontier, April 2010 - July 2013
- Invited member for Action Group Committee, Information Security Education and Awareness Program, Government of India, April 2010
- Program Co-Chair, Collaboration, Electronic messaging, Anti-Abuse and Spam Conference, 2010
- Program committee member of Symposium on Usable Privacy and Security (SOUPS), 2010
- Reviewer for Computer Human Interaction (CHI), 2009, 2010 – 2017
- Reviewer for The Eighth International Conference on Pervasive Computing, 2010
- Reviewer for Impact: Journal of Applied Research in Workplace E-learning
- Reviewer for ACM's Transactions on Internet Technology (TOIT)
- Program Co-Chair, eCrime Researchers Summit, 2009
- Usable Security Track Co-Chair, International conference and workshop on Cyber Security, Cyber Crime and Cyber Forensics, 2009
- Reviewer for International Journal of Information Security
- External reviewer for Financial Cryptography 2009
- Panelist for selecting best course project in 08-731 - Web commerce, security, and privacy, Fall 2008, CMU

- Judge in evaluating course projects in 95-762 - Privacy in the Digital Age, Fall 2008, CMU
- Active member of the Internet Policy Committee (IPC), Anti-Phishing Working Group. 2008 – 2009
- Student volunteer, Symposium On Usable Privacy and Security, 2008
- Program committee member of Faculty Workshop on Secure Software Development, 2008
- Active member of the Advisory board for creating a credential Certified Information Privacy Professional (Information Technology), CIPP(IT) for International Association of Privacy Professionals (IAPP). 2007 – 2009
- External reviewer for Computer Human Interaction (CHI), 2008
- Program committee member of e-business congress in Toronto, 2007
- External reviewer for 7th Workshop on Privacy Enhancing Technologies, 2007
- External reviewer for 4th International Conference on Trust, Privacy & Security in Digital Business, 2007
- Program committee member of W3C Workshop on Languages for Privacy Policy Negotiation and Semantics-Driven Enforcement, 2006
- External reviewer for 3rd International Conference on Trust, Privacy & Security in Digital Business, TrustBus, 2006
- External reviewer for International Conference on Privacy, Security and Trust, PST, 2006
- Graduate student representative to the Graduate Student Assembly (GSA) of Carnegie Mellon University for COS PhD. program (Spring 2006, Fall 2006)
- Posters Co-chair for Symposium On Usable Privacy and Security, 2005
- President of the Software Process Improvement Network (SPIN), IIIT Hyderabad Chapter, India, Feb 2003 - Feb 2004

ONLINE SOCIAL MEDIA TRAINING PROGRAMS. June 2015 - Present

- Using Online Social Media for Policing, Intelligence, L&O and Investigation. National Police Academy (NPA), Hyderabad. May 16, 2017. 38 officers attended.
- Social Media tracking for Issue Management: Point - Counterpoint. Organised for Indian Information Service Officers, May 11, 2017. In IIIT Delhi. 10 officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Organised by Ministry of Home Affairs. April 27, 2017. 100+ officers all around the country attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. National Police Academy (NPA), Hyderabad. Feb 15, 2017. 38 officers attended.
- Privacy and Security in Online Social Media. DRDO, Delhi. Feb 14, 2017. 30+ scientists / officers attended.
- Online Social Media Analysis: Its Use in Intelligence Gathering and Online Investigations. CBI Academy. Jan 18, 2017. 20+ officers attended.
- Exploitation of Social Networking Sites for Perception Management. Army War College, Indore. Oct 19, 2016. 17+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. Oct 17 - 18, 2016. 15+ officers attended.
- Cybersecurity: Online Social Media, Email Security, & Privacy. Indian Army. Oct 5 - 6, 2016. 12+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. As part of a course organised by National Crime Records Bureau (NCRB) Delhi. Sept 23, 2016. 20+ officers attended.

- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. Sept 27 - 28, 2016. 55+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. Sept 14 - 15, 2016. 20+ officers attended.
- Privacy and Security in Online Social Media. DRDO. Sept 8, 2016. 20+ scientists / officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. National Police Academy (NPA), Hyderabad. Aug 10, 2016. 25+ officers attended.
- Helped organise a workshop on Online Social Media and Policing. National Police Academy (NPA), Hyderabad. March 22 - 23, 2016. 25+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. March 14 - 15, 2016. 30+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. IIITD campus. Dec 14 - 16, 2015. 30+ officers attended.
- Online Social Media Analysis: Its Use in Intelligence Gathering and Online Investigations. CBI Academy. Nov 30, 2015. 20+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Kerala Police, Trivandrum. Nov 24, 2015. 65+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Jharkhand Police, Ranchi. Nov 19, 2015. 25+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Criminal Investigation Department (CID), Kolkata, West Bengal. Oct 29, 2015. 15+ officers attended.
- Use of Open Source Intelligence and Social Media Analysis. As part of a Counter Terrorism course at National Police Academy, Hyderabad. Oct 15, 2015. 30+ participants attended.
- Use of Open Source Intelligence and Social Media Analysis. Press Information Bureau, Government of India . Oct 26 – 30, 2015. 6 officers attended.
- Exploitation of Social Networking Sites for Perception Management. Army War College, Indore. Oct 10, 2015. 45+ officers from 8 – 16 years of experience from all around the country attended.
- Master Trainers' Program. Staying Safe Online for School Teachers. Co-organized with Central Board of Secondary Education (CBSE). Oct 7 – 8, 2015. 50+ Teachers from all around Delhi & NCD attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Three officers from Government of India. Step 28 – 29, 2015.
- Using Online Social Media for Public Perceptions. Sept 8, 2015. 13+ officers from Press Information Bureau, Government of India attended.
- Strategies for Safe and Effective Use of Online Social Media for School Teachers. Half day workshop. Organised by Bangalore Sahodaya Schools Complex. Sept 7, 2015. 135+ participants attended.
- Use of Open Source Intelligence and Social Media Analysis. As part of a Counter Terrorism course at National Police Academy, Hyderabad. Sept 2, 2015. 30+ participants attended.
- Online Social Media & Open Source Intelligence. As part of a Workshop on Cyber Crime Investigation at North Eastern Police Academy, Meghalaya. Aug 29, 2015. 50+ participants attended.
- Online Social Media & Open Source Intelligence. As part of a Basic course for probationers at North Eastern Police Academy, Meghalaya. Aug 29, 2015. 150+ participants attended.
- Social Media Issues & Monitoring. At Intelligence Bureau training institute, New Delhi. Aug 27, 2015. 35+ participants attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. At CBI Academy, Ghaziabad. Aug 26, 2015. 35+ participants attended.

- Co-organized a half-day workshop with National Security Council Secretariat (NSCS), Government of India on Impact of Social Media on Public Perception, Public Order and National Security. 22 Aug 2015.
- Staying Safe Online. Delhi Public School, Bengaluru North. July 1, 2015. Half day workshop. In 2 batches, 800 + 400 students attended.
- Using Online Social Media for Policing, Intelligence, and L&O. National Industrial Security Academy (NISA), Hyderabad. June 19, 2015. Half day session. 65+ officers attended.
- Using Online Social Media for Policing, Intelligence, L&O and Investigation. Mysuru Police. Half day session. June 5, 2015. 20+ officers attended. Organised by the Commissioner of Police, Mysuru.

SELECTED INVITED TALKS / LECTURES

- Data Science for Security and Privacy. Technology Meetup - Data Analytics. Organised by Sapien, Gurugram. April 22, 2017. 40+ industry practitioners attended.
- Data Science for Security and Privacy. Raksha Shakti University. April 20, 2017. 100+ students / faculty attended.
- SNA and OSI Analysis of DRDO: Mechanisms, Impact and Scenario Analysis. DRDO. April 13, 2017. 30+ scientists / officers attended.
- Privacy and Security in Online Social Media. ACM Distinguished Speaker Lecture. IIIT Allahabad. April 11, 2017. 60+ students / faculty attended.
- Privacy and Security in Online Social Media. ACM Distinguished Speaker Lecture. Amrita University. March 28, 2017. 80+ students / faculty attended.
- Privacy and Security in Online Social Media. Bosch India, Bengaluru. March 15, 2017. 80+ Bosch employees attended. **Keynote**
- Privacy and Security in Online Social Media. ACM Distinguished Speaker Lecture. S A Engineering College. March 7, 2017. 50+ students / faculty attended.
- Credibility, Identity Resolution, and Privacy on Online Social Media. DIO National Meet on Grass root Informatics organized by NIC. Feb 28, 2017. 120+ NIC officers attended.
- Privacy and Security in Online Social Media. ACM Distinguished Speaker Lecture. Manav Rachna International University. Feb 22. 60+ students / faculty attended.
- Social Media and Analytics as an Intelligence Tool. Seventeenth International National Security Guard Seminar, Feb 9, 2017. 200+ officers attended.
- Credibility, Identity Resolution, and Privacy on Online Social Media. At IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016), College of Engineering Pune. Dec 20, 2016. 100+ participants attended.
- Privacy and Security in Online Social Media. CAIR DRDO. Dec 15, 2017. 20+ scientists attended.
- Credibility, Identity Resolution, and Privacy on Online Social Media. Indian Institute of Technology, Karaghpur (IITKGP). ACM Distinguished Speaker talk. Nov 17, 2016. 30+ students / faculty attended.
- Credibility, Identity Resolution, and Privacy on Online Social Media. As part of Indo Belarus Bilateral Workshop on Cyber Security at CDAC Noida. Nov 16, 2016. 30+ delegates attended.
- Research at Precog! Bosch, Bengaluru. Nov 9, 2016.
- Identity Resolution, Privacy, and Policing on Online Social Media. University of Baltimore County (UMBC), USA. ACM Distinguished Speaker talk. Oct 14, 2016. 15+ participants.
- Research, Education, and Cybersecurity Policies in India. As part of a course Cybersecurity Governance: A Data-Driven Approach taught by Prof. Virgilio Almeida. Harvard University, USA. Oct 13, 2016.

- Introduction to Cybersecurity. Army HQ, Delhi. As part of a Cybersecurity course offered by CERC. Oct 5 - 6, 2016. 20+ participants.
- Online Social Media: Privacy and Security Implications. As part of DWIH Conference: CitySpaces organized by Max Planck Gesellschaft (MPG). Sept 29, 2016. 100+ participants.
- Credibility, Identity Resolution, Privacy, and Policing on Online Social Media. Indian Institute of Technology, Guwahati (IITG). ACM Distinguished Speaker talk. Sept 24, 2016. 90+ participants.
- Privacy and Security in Online Social Media. International Symposium on Security in Computing and Communications (SSCC'16), Jaipur, India. 100+ participants. **Keynote**
- Privacy and Security in Online Social Media. As part of the course Cryptology and Information Security (CIS) organised by Defence Research and Development Organisation (DRDO). Sept 8, 2016. 25+ participants.
- Digital Forces – Social: Research at Precog@IIIT-D, Future Trends, Potential Student Projects. As part of NPTEL & TCS's Faculty Development Programme to faculty from various engineering colleges in India. Sept 7, 2016. 100+ participants.
- Stop-Think-Connect: Past, Present, and Future. As part of Anti Phishing Working Group Symposium, Bern, Switzerland. Sept 1, 2016. 30+ participants.
- Privacy and Security in Online Social Media. ETH Zurich, Switzerland. July 7, 2016. 30+ participants.
- Privacy and Security in Online Social Media. GESIS - Leibniz Institute for the Social Sciences, Koln, Germany. June 28, 2016. 20+ participants.
- Online Social Media: Opportunities, Challenges, and Pitfalls. Summer Workshop on Online Social Media: Developer's Perspective at IGDTUW, Delhi. June 6, 2016. 50+ participants. **Keynote**
- **TEDxJuhu**. Web 2.0: With Great Online Power Comes Great Responsibility. April 9, 2016. 1000+ participants.
- Privacy and Security in Online Social Media. As part of Workshop on Analysis and Inference from User Generated Content (WAIU). IISc Bangalore. March 28, 2016. 80+ participants attended.
- Privacy and Security in Online Social Media. IIIT Hyderabad. March 23, 2016. 80+ participants attended.
- Privacy and Security in Online Social Media. Data 61, Australia. Feb 22, 2016. 5+ participants attended.
- Privacy and Security in Online Social Media. Bharati Vidyapeeth College of Engineering, New Delhi. ACM India Eminent Speaker talk. Feb 17, 2016. 100+ participants attended.
- Privacy and Security in Online Social Media. As part of Academic Research Summit, Pune. Jan 30, 2016. 80+ participants attended.
- Privacy and Security in Online Social Media. As part of Workshop on Data Analytics & Its Security Issues. Jaypee Institute of Information Technology, (JIIT). Dec 4, 2015. 80+ participants attended.
- Online Social Media - Opportunities, Pitfalls and Challenges. National Conference of Women Police ? Looking Ahead. Nov 24, 2015. Kerala Police, Trivandrum. 200+ Women police officers.
- Mitigating Misinformation Spread on Micro-blogging Web Services using TweetCred. Workshop on Social Media in Communication, Governance and Security, 5 – 6 November 2015, Singapore. 90+ participants attended.
- Privacy and Security in Online Social Media. ITM University, Gurgaon. ACM India Eminent Speaker talk. Sept 13, 2015. 180+ participants attended.
- Privacy and Security in Online Social Media. As part of the a short-term course Cryptology and Information Security (CIS 2015), organized by Scientific Analysis Group (SAG), Defence Research and Development Organisation (DRDO), Government of India. Sept 9, 2015. 50+ participants attended.
- Privacy and Security in Online Social Media. Security and Hacking Conference, C0C0n 2015. Organised by Kerela Police. Aug 20, 2015. 100+ participants attended.

- Privacy and Security in Online Social Media. C4: Conference on Cyber Crime Control. Organised by Mumbai Police. July 28, 2015. 100+ participants attended.
- Privacy and Security in Online Social Media. IIM Bangalore. As part of their regular seminar series. July 24, 2015. 5+ participants attended.
- Privacy and Security in Online Social Media. Infosys Bengaluru. ACM India Eminent Speaker talk. July 22, 2015. 80+ participants attended.
- Privacy and Security in Online Social Media. International Institute of Information Technology (IIIT) Bengaluru. ACM India Eminent Speaker talk. July 22, 2015. 20+ participants attended.
- Privacy and Security in Online Social Media. IBM IRL, Bengaluru. July 21, 2015. 12+ participants attended.
- Privacy @ ICICI. ICICI Head Quarters, Mumbai. June 26, 2015.
- Research @ Precog. Flipkart, Bengaluru. June 22, 2015.
- Online Social Media Labs. As part of Seminar on “IT Applications in Indian Police”. National Police Academy, Hyderabad. June 19, 2015. 40+ officers from all round the country attended.
- Safe Technology Usage. G. D. Goenka Public School. As part of National Technology Day, May 11, 2015. 20+ students attended. Through Google Hangout.
- Cybercrime and Phishing. Army HQ, Delhi. As part of a Cybersecurity course offered by CERC. Feb 20, 2015.
- Privacy and Security in Online Social Media. Jaypee Institute of Information Technology, NOIDA. ACM India Eminent Speaker talk. March 16, 2015. 140+ participants attended.
- Online Social Media: Opportunities, Pitfalls, and Challenges, Defence Research and Development Organisation (DRDO) Headquarters. 30+ participants. Jan 14, 2015.
- Privacy and Security in Online Social Media. Coimbatore Institute of Technology (CIT), Coimbatore. ACM India Eminent Speaker talk. Dec 18, 2014. 120+ participants attended.
- Privacy and Security in Online Social Media. PSG College of Technology, Coimbatore. ACM India Eminent Speaker talk. Dec 17, 2014. 40+ participants attended.
- Building Usable Secure Systems. International Conference on Secure Knowledge Management in big-data Era at BITS Pilani, Dubai Campus. Dec 8 – 9, 2014.
- Research work at CERC. Indira Gandhi Delhi Technical University for Women (IGDTUW). Sept 25, 2014.
- Privacy and Security in Online Social Media at a course organized by Defence Research and Development Organisation (DRDO). Sept 24, 2014.
- Privacy and Security in Online Social Media. ACM Pune’s Workshop on Cybersecurity. ACM India Eminent Speaker talk. Sept 13, 2014. 70+ participants attended.
- Conducting high quality research in Cybersecurity. Sardar Patel University of Police, Security, and Criminal Justice. Sept 2, 2014.
- Privacy and Security in Online Social Media. Thapar University. ACM India Eminent Speaker talk. March 26, 2014. 120+ participants attended.
- Privacy and Security in Online Social Media. Data Privacy Symposium organized by TCS in Chennai. Jan 28, 2014.
- Research at PreCog. UMBC Computer Science and Electrical Engineering Department, USA. March 11, 2013.
- Privacy in India: Attitudes and Awareness 2.0. Privacy Global Summit organized by International Association for Privacy Professionals. 6 – 8 March, 2013. Washington DC, USA.
- Research at PreCog. Gave the inaugural talk at the NSIT ACM Chapter, New Delhi. Feb 13, 2013.

- Privacy in India: Attitudes and Awareness V 2.0. First NORHED partner meeting on ‘Networked Masters and Professional Programmes in Health Information Management in South Asia’ Jan 25 – 26, 2013.
- Research at PreCog. Google Bengaluru. Dec 19, 2012.
- Research at PreCog. EMC Bengaluru. Dec 20, 2012.
- Privacy and Security in Online Social Media, Workshop on Social Computing, IIT Kharagpur. Oct 4, 2012.
- Privacy and Security in Online Social Media, International Workshop on Information Security, BITS Pilani, Hyderabad campus. Dec 2012.
- Privacy in India: Attitudes and Awareness V 2.0. CSO Summit, Dec 6 – 7, 2012.
- Privacy in India: Attitudes and Awareness V 2.0. Vodafone Privacy Summit, Nov 22, 2012.
- Privacy and Security in Online Social Media, Indira Gandhi Institute of Technology, Delhi. Part of the ACM event. July 23, 2012.
- Privacy and Security in Online Social Media, Bell Labs, Ireland. June 27, 2012.
- Research at PreCog, Universit della Svizzera italiana, Lugano, Oct 9, 2011.
- Privacy and Security Research at PreCog, Universidade Federal do Rio de Janeiro, Brazil, July 1, 2011.
- Privacy and Security Research at PreCog, Laboratrio Nacional de Computao Cientfica, Brazil, July 4, 2011.
- Designing an Effective Course Curriculum, Indo-US Workshop on Effective Teaching at College / University Level, Feb 10, 2011.
- Intelligence and Security Informatics, 40th All India Police Science Congress, Raipur, Chhattisgarh, June 3, 2010.
- Usable Privacy and Security, Information Systems Management Course, IIT-Delhi, April 22, 2010.
- Cyber Crime, ABV Indian Institute of Information Technology and Management, Gwalior, Nov 3, 2009.
- Usable Privacy and Security, Refresher course, Delhi University, Nov 26, 2009.
- Usable Privacy and Security, OWASP AppSec India Conference, Nov 17, 2009.
- Teaching Johnny Not to Fall for Phish, (ISC)2 e-symposium, March 17, 2009.
- PhishGuru: A System for Educating Users about Semantic Attacks, Indian Institute of Technology, Kanpur, India, Aug 9, 2007.
- Privacy and security research at CMU and around the globe. International Institute of Information Technology, Pune, India, July 17, 2007.
- PhishGuru: A System for Educating Users about Semantic Attacks, Tata Research Development and Design Centre (TRDDC), Pune, India, July 11, 2007.
- PhishGuru: A System for Educating Users about Semantic Attacks, Indian Institute of Technology, Bombay, India, July 6, 2007.
- International perspective of Cyber Security, Symposium on Cyber Security Awareness, Cyber Security Research Centre, Chandigarh, May 23, 2007.
- Trust in Phishing. Special Interest Group on Online Trust. Computer Human Interaction (CHI), May 1, 2007.
- Privacy in India. Round table discussion, Mumbai, India, Aug 08, 2006.

SELECTED POSTERS, & PANEL DISCUSSIONS

- Build Trillion Transactions? securing & privacy enabling each of them. 7th Best Practices Meet by Data Security Council of India. July 10, 2015. *Panel discussion.*
- Chhaya N., Agarwal D., Puri N., Jain P., Kumaraguru P., and Pai D. EnTwine: Feature Analysis and Candidate Selection for Social User Identity Aggregation. Accepted at IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015). *Poster.*
- Transformative Impact of Big Data. Integrated Intelligence. Organised by Carnegie Mellon University, New Delhi, July 4, 2015. Panelists: Prof. Farnam Jahanian, Provost, CMU, Mr. Banmalia Agrawala, CEO GE, South Asia, Mr. Natarajan Chandrasekaran, CEO TCS, Prof. Gary Fedder, CMU. 150+ participants attended. *Panel discussion.*
- Sachdeva N. and Kumaraguru P. Deriving Requirements for Social Media based Community policing: Insights from Police. Dg.o 2015, 16th International Digital Government Research Conference. May 27 - 30, 2015. *Poster.*
- Using Online Social Media for Policing, Intelligence, Law & Order and Investigation. 44th All India Police Science Congress. Organized by Bureau of Police Research and Development (BPR&D), Government of India. March 12, 2015. 120+ police officers attended. *Panel discussion.*
- Status of Cybersecurity in India. Centre of Excellence in Cyber Systems and Information Assurance. As part of their one year celebration. Feb 6, 2015. *Panel discussion.*
- Aggarwal, A., and Kumaraguru, P. Followers or Phantoms? An Anatomy of Purchased Twitter Followers. XRCI Open, 22 – 23 Jan, 2015. *Poster.*
- Role of Academics in improving the status of Cybersecurity. One day workshop on Cyber security in India – New Challenges for CISF. Organised by Central Industrial Security Force (CISF), Government of India. Jan 20, 2015. *Panel discussion.*
- Aggarwal, A., and Kumaraguru, P. Followers or Phantoms? An Anatomy of Purchased Twitter Followers. Security and Privacy Symposium, 14 – 15 Feb, 2015. *Poster.*
- Gupta, A., Castillo, C., and Kumaraguru, P. TweetCredCrisis: Real-time Assessment of Quality of Content Posted on Twitter during Crisis Events. Security and Privacy Symposium, 14 – 15 Feb, 2015. *Poster.*
- Dewan, P., Kashyap, A., and Kumaraguru, P. Analysing Social and Stylometric Features to Identify Spearphishing Emails. Security and Privacy Symposium, 14 – 15 Feb, 2015. *Poster.*
- Sachdeva N. and Kumaraguru P. Police on Facebook: Improving Online Public Communication for Police and Residents. Security and Privacy Symposium, 14 – 15 Feb, 2015. *Poster.*
- Dewan, P., and Kumaraguru, P. Spam Identification on Facebook During Events. Conference on Online Social Networks (COSN), Oct 1 – 2, 2014. *Poster.*
- Sachdeva, N., Saxena, N., and Kumaraguru, P. On the Viability of CAPTCHAs for Use in Telephony Systems: A Usability Field Study. In Proceedings of the 11th Asia Pacific Conference on Computer Human Interaction (APCHI '13). *Poster.*
- Jain, P., and Kumaraguru, P. Flash of Two Words. Security and Privacy Symposium, IIT Kanpur. 28 Feb – 2 March, 2013. *Poster.*
- Mittal, S., Gupta, N., and Kumaraguru, P. Pinterest: Case study on a picturesque network. Security and Privacy Symposium, IIT Kanpur. 28 Feb – 2 March, 2013. *Poster.*
- Jain, P. and Kumaraguru, P. Finding Nemo: Entity Search and Resolution in Online Social Networks. Security and Privacy Symposium, IIT Kanpur. 28 Feb – 2 March, 2013. *Poster.*
- Dewan, P. Sachdeva, N., and Kumaraguru, P. ChaMAILLeon: Usable email sharing like never before! Security and Privacy Symposium, IIT Kanpur. 28 Feb – 2 March, 2013. *Poster.*
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