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RESEARCH INTERESTS: Security and Privacy, Social Network Analysis, Data Mining, Machine Learning, Natural Language Processing, Social Computing

EDUCATION

Dec 2013 – Present: Ph.D. in Computer Science (CS). Advisor: Dr. Ponnurangam Kumaraguru (“PK”) Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi). Running **CGPA** : 9.2 / 10

2011 – 2013: M. Tech in Computer Science (CS) with specialization in Information Security Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi). **CGPA** : 9.2 / 10

2007 – 2011: B. Tech in Computer Science and Engineering (CSE) Northern India Engineering College, GGSIPU. **Aggregate:** 83.25 %

TECHNICAL SKILLS: Python, Matplotlib, Scikit Learn, NLTK, Numpy, MySQL, HTML, CURL, NoSQL (MongoDB), RESTful APIs (Facebook, Twitter, GooglePlus, YouTube etc.)

PROFESSIONAL COLLABORATIONS / INTERNSHIPS

- **Georgia Institute of Technology (GaTech), Atlanta, USA**
Visiting Researcher, June 2016 – August 2016. Worked on understanding the emerging threats related to phone numbers abuse on online social networks.
- **New York University (NYU), Abu Dhabi, UAE**
Visiting Researcher, October 2014 – June 2015. Worked on understanding the feasibility, scalability, and effectiveness of targeted attacks on Over-The-Top messaging applications.
- **University at Suny Buffalo (UB), NY, USA**
Research Intern, June 2013 – August 2013 . Worked on understanding the online privacy perceptions of elderly citizens living in India.
- **Defence Research & Development Organization (DRDO) , Metcalfe House , India**
Student Intern, May 2010 – July 2010. Involved in designing Graphical User Interface (GUI) and implementing use cases for military services in Java.

TECHNOLOGIES BUILT**Open-source Collation of eGovernment data And Networks (OCEAN), 2013**

System highlighting privacy intrusion by collating sensitive information from publicly available government websites. <http://precog.iiitd.edu.in/research/ocean/> Covered in Hindustan Delhi newspaper, April 2013.

PROFESSIONAL ACTIVITIES

- Reviewer, Information Systems Frontiers Journal, 2017.

PUBLICATIONS

- **Gupta, S.,** Khattar A., Gogia, A., Kumaraguru, P., and Chakraborty T. Collective Classification of Spam Campaigners on Twitter: A Hierarchical Meta-Path Based Approach. 27th International World Wide Web Conference (WWW), Lyon, April 2018.
- **Gupta, S.,** Kuchhal D., Gupta, P., Ahamad, M., Gupta, M., and Kumaraguru, P. Cross-Platform Intelligence On Spam Campaigns Abusing Phone Numbers Across Online Social Networks. [under review]
- **Gupta, S.,** Gupta, P., Ahamad, M., and Kumaraguru, P. Exploiting Phone Numbers and Cross-Application Features in Targeted Mobile Attacks. 6th Annual ACM CCS Workshop on Security and Privacy in Smartphones

and Mobile Devices. ACM, 2016.

- **Gupta, S.** Emerging Threats Abusing Phone Numbers Exploiting Cross-Platform Features. 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM). Ph.D. Forum.
- **Gupta, S.**, Gupta, P., Ahamad, M., and Kumaraguru, P. Know your targets: Privacy and Security Implications in Instant Messaging Applications. Poster at 2nd NYUAD Annual Research Conference, Abu Dhabi, 2015.
- **Gupta, S.**, and Kumaraguru, P. Emerging Phishing Trends and Effectiveness of the Anti-Phishing Landing Page. Accepted at 9th APWG eCrime Research Symposium (eCRS), 2014.
- **Gupta, S.**, Gupta, M., Kumaraguru, P. OCEAN: Open source Collation of eGovernment data and Networks. **Best Poster award** at IIT-Kanpur Security and Privacy Symposium, 2013.
- **Gupta, S.**, Gupta, M., Kumaraguru, P. Is Government a Friend or Foe? Privacy in Open Government Data. Poster at IBM-ICARE, IISc Bangalore, 2012.
- **Gupta, S.**, Kumaraguru, P. OCEAN: Open-source Collation of eGovernment data And Networks. Understanding Privacy Leaks in Open Government Data. Submitted in partial fulfilment of the requirements for the Degree of M.Tech in Computer Science, with specialization in Information Security. IIIT-Delhi. 2013.

AWARDS AND HONORS

- Amongst 20 Ph.D. students selected all over India for Doctoral Symposium at NIIT University, Neemrana, India, September 2017.
- Student travel grant to attend CCS 2016.
- Invited Panelist at Messaging Malware Mobile Anti-Abuse Working Group (M3AAWG), Philadelphia, 2016.
- Ph.D. Research Grant, Government of India, 2013.
- Best poster award at IIT-Kanpur Security and Privacy Symposium, 2013.
- GATE scholarship, Ministry of Human Resources Development (MHRD), 2011 – 2013.
- Amongst top 10 students in CSE department, B.Tech, GGSIPU, 2011.

OTHER PROFESSIONAL ACTIVITIES

- Teaching Assistant: Privacy and Security in Online Social Media (PSOSM) at NPTEL, Designing Human Centered Systems (DHCS), Probability and Statistics, Advanced Programming, Computer Networks
- Student volunteer for organizing Summer School on Privacy and Security at IIIT Hyderabad, 2017.
- Gave invited talk on ‘Stay Safe on Online Social Networks’ to school students, Summer School at IIITD, 2017.
- Gave tutorial on ‘Visualizations using NetworkX and iGraph’, PSOSM at IIITH, 2017.
- Website admin for CERC (<http://cerc.iiitd.ac.in/>), 2014 - 2016.
- Student volunteer for organizing Security and Privacy Symposium at IIIT Delhi, 2016.
- Gave invited talk at Data Hackathon workshop at IGD TUW, Delhi, April 2016.
- Student instructor in Workshop for School Teachers on Strategies for Safe and Effective Use of OSM, May 2015.
- Student volunteer for organizing Security and Privacy Symposium at IIT Kanpur, February 2014.
- Student organizer for Indo-UK workshop on Cybersecurity, March 2013.

ADVISING

- Bachelor Thesis: Lohitaksh Parmar (IIIT-Delhi), Abhinav Khattar (IIIT-Delhi), Arpit Gogia (DTU, Delhi), and Dhruv Kuchhal (GGSIPU, Delhi).

REFERENCES

- **Prof. Mustaque Ahamad** - mustaq@cc.gatech.edu
Associate Director, Institute for Information Security and Privacy (IISP), Georgia Institute of Technology
- **Prof. Ponnurangam Kumaraguru** - pk@iiitd.ac.in
Head, Precog Research Group, Indraprastha Institute of Information Technology, Delhi
- **Dr. Payas Gupta** - payasgupta@gmail.com
Data Scientist, Pindrop, Atlanta