

Kumar Sharad | Curriculum Vitae

NEC Laboratories Europe GmbH
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Research Interests

Privacy, machine learning, botnet analysis, social network analysis, adversarial learning

Education

University of Cambridge

PhD, Computer Science

Thesis: Learning to de-anonymize social networks

Supervisor: Prof. Ross Anderson

Cambridge, UK

Jun 2012–Mar 2016

RWTH Aachen University

MSc, Media Informatics

Thesis: Certificateless encryption scheme using biometric identity

Thesis Supervisor: Prof. Dr. Joachim von zur Gathen

Aachen, Germany

Oct 2009–Apr 2012

DA-IICT

B.Tech., Information and Communication Technology

Thesis: Symbolic Integrator

Thesis Supervisor: Prof. Samaresh Chatterji

Gandhinagar, India

Jul 2002–May 2006

Professional Experience

NEC Laboratories Europe GmbH

Research Scientist

Heidelberg, Germany

April 2017–Present

Royal Holloway, University of London

Post Doctoral Research Assistant

Egham, UK

April 2016–March 2017

University of Cambridge

Student Supervisor

Cambridge, UK

Feb 2013–Mar 2016

YAHOO! LABS

Research Intern

Sunnyvale, US

Sep 2014–Nov 2014

Department of Computer Security, University of Bonn

Student Helper

Bonn, Germany

Sep 2010–Feb 2012

Tata Consultancy Services

Assistant Systems Engineer

Pune, India

Sep 2006–Aug 2009

Computer Skills

Programming: PYTHON, JAVA, C, C++, UNIX shell scripting, SQL

Tools: L^AT_EX, Sage, Mathematica

Awards and Activities

Oct 2012–Mar 2016: Graduate Students' Forum representative for the Security Group at University of Cambridge Computer Laboratory

Oct 2015: Received research grant from the Churchill College, Cambridge

Aug 2015: Received Lundgren Research Award from the University of Cambridge

Feb 2012: Awarded Dorothy Hodgkin Postgraduate Awards (Microsoft Research Laboratories) studentship by the University of Cambridge

Personal

Nationality: India

Languages.....

Hindi (*Mother tongue*), English (*Fluent*), German (*B1 Level*)

Publications

1. Roberto Jordaney, Kumar Sharad, Santanu Kumar Dash, Zhi Wang, Davide Papini, Ilia Nouretdinov, and Lorenzo Cavallaro. Transcend: Detecting Concept Drift in Malware Classification Models. USENIX Security Symposium (**USENIX Sec**). August, 2017.
2. Kumar Sharad. Change of Guard: The Next Generation of Social Graph De-anonymization Attacks. Workshop on Artificial Intelligence and Security (**AI Sec**). October, 2016.
3. Kumar Sharad. True Friends Let You Down: Benchmarking Social Graph Anonymization Schemes. Workshop on Artificial Intelligence and Security (**AI Sec**). October, 2016.
4. Roberto Jordaney, Zhi Wang, Davide Papini, Ilia Nouretdinov, Kumar Sharad, and Lorenzo Cavallaro. Misleading Metrics: On Evaluating Machine Learning for Malware with Confidence. IEEE Symposium on Security and Privacy (**IEEE S&P**). May, 2016 (Poster).
5. Kumar Sharad and George Danezis. An Automated Social Graph De-anonymization Technique. Workshop on Privacy in the Electronic Society (**WPES**). November, 2014.
6. Kumar Sharad and George Danezis. De-anonymizing D4D Datasets. Workshop on Hot Topics in Privacy Enhancing Technologies (**HotPETS**). July, 2013.
7. Kumar Sharad and George Danezis. Privacy Leak in Egonets. University of Cambridge Computer Laboratory 75th Anniversary. April, 2013 (Poster).