Dhruv Kuchhal

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September 16, 2021 $\frac{\text{LinkedIn}}{\text{Google Scholar}}$

RESEARCH INTERESTS

I have 4+ years experience of working on real-world computer security problems, often involving measuring, analyzing and understanding large-scale data from Internet-wide systems.

EDUCATION

• Georgia Institute of Technology
Doctor of Philosophy in Computer Science

Atlanta, GA
2019 – 2024

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Information Technology

Delhi, India 2014 – 2018

SELECTED PUBLICATIONS

Conference

• Kuchhal, D. and Li, F.,

A View into YouTube View Fraud.

currently under review.

• Kuchhal, D. and Li, F.,

Knock and Talk: Investigating Local Network Communications on Websites.

ACM Internet Measurement Conference (IMC), 2021.

Acceptance Rate: 27.9% (55/197)

• Redmiles, E.M., Maszkiewicz, L., Hwang E., **Kuchhal, D.**, Liu, E., Morales, M., Peskov, D., Rao, S., Stevens, R., Gligorić, K., Kross, K., Mazurek, M.L., Daume III, H.,

Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts.

Conference on Empirical Methods in Natural Language Processing (EMNLP-IJCNLP), 2019.

Acceptance Rate: 23.8% (684/2877) [aclweb.org] [pdf]

• Redmiles, E.M., Zhu, Z., Kross, S., **Kuchhal, D.**, Dumitras, T. and Mazurek, M.L.,

Asking for a Friend: Evaluating Response Biases in Security User Studies.

ACM Conference on Computer and Communications Security (CCS), 2018.

Acceptance Rate: 16% (134/809) [dl.acm.org] [pdf]

• Gupta, S., Kuchhal, D., Gupta, P., Ahamad, M., Gupta, M. and Kumaraguru, P.,

Under the Shadow of Sunshine: Characterizing Spam Campaigns Abusing Phone Numbers Across Online Social Networks*.

ACM Conference on Web Science (WebSci), 2018.

Acceptance Rate: 27% (30/113) [dl.acm.org] [pdf]

Award: Runner up for Best Student Paper

Journal

• Gupta, S., Bhatia, G., Suri, S., **Kuchhal, D.**, Gupta, P., Ahamad, M., Gupta, M. and Kumaraguru, P., **Angel or Demon? Characterizing Variations Across Twitter Timeline of Technical Support Campaigners.**

The Journal Of Web Science, 2019 [webscience-journal.net] [pdf]

PayPal, Inc. Scottsdale, AZ

Information Security PhD Intern

Summer 2021

- Managers: Dr. Adam Oest (Research Scientist) and Dr. RC Johnson (Head of Security Research).
- Work: Exploring deployment efficacy of passwordless authentication (FIDO2).

Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

Graduate Research Assistant

2020 - present

- Area: Empirical Measurement, Security and Privacy.
- o Advisor: Prof. Frank Li.
- o Projects:
 - * Investigating local network communications on websites.
 - * Investigating the YouTube view fraud ecosystem.

University of Maryland, College Park (UMD)

College Park, MD

2017 - 2018

Research Assistant at Security, Privacy, People Lab (SP2)

- Area: Usable Privacy and Security.
- $\circ\,$ ${\bf Advisors}:$ Prof. Michelle Mazurek and Prof. Elissa Redmiles.
- o Projects:
 - * Measuring and improving readability of security advice.
 - * Evaluating response biases in security user studies.

Indraprastha Institute of Information Technology, Delhi (IIIT-D)

Delhi, India

Undergraduate Researcher and Research Associate at PreCog Research Lab

2017 - 2019

- Area: Social Computing Security and Privacy on Online Social Networks (OSNs).
- o Advisor: Prof. Ponnurangam Kumaraguru.
- Projects:
 - * Detecting cross-platform spam on online social networks.
 - * Detecting and mitigating misinformation on WhatsApp.[technical details, press]

Relevant Graduate Coursework

CS6262 - Network Security, CS8803 - Empirical Measurement and Security, CS6238 - Secure Computer Systems, ECE4894 - Malware Reverse Engineering, CS7641 - Machine Learning, CS7643 - Deep Learning, CS6515 - Graduate Algorithms and CS6260 - Applied Cryptography.

Teaching

• GTA/CS6262 - Network Security: Responsible for redesigning and grading the Network Monitoring project and holding office hours in Spring and Summer semesters in 2020, with Prof. Wenke Lee.

ACHIEVEMENTS/HONORS

- USC Annenberg Fellowship, 2019: Received a 4-year fellowship of USD 34k to pursue a PhD in CS at USC.
- ACM CCS Student Travel Grant, 2018: Received a grant of USD 1k to attend ACM CCS in Toronto, Canada.
- Smart India Hackathon, 2017: Our team of 6 members advised by Dr. Sambuddha Roy won the first prize with a total cash prize of Rs. 2 lakh awarded by Government of India. [GitHub]
- Recognition of Service Award from ACM, 2016: Received as founding Chair of a 80+ strong team of ACM-MAIT Student Chapter.

SERVICE

- Reviewing: External reviewer, PoPETS '22.
- Georgia Tech Student Employee Advisory Board: Board Member, 2021-22 AY.
- Georgia Tech School of Computer Science SGA: Founding member and communications chair, 2021-22 AY.
- India Club at Georgia Tech: Board member, 2020-21 AY.
- Georgia Tech CS PhD admit visit days: Member of organising committee, 2019-21 AYs.