

# Dhruv Kuchhal

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[LinkedIn](#)

[Google Scholar](#)

## EDUCATION

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- **Georgia Institute of Technology** Atlanta, GA, USA  
*PhD in Computer Science; Empirical Measurement and Security; advised by Dr. Frank Li.* 2019 – Present
- **Guru Gobind Singh Indraprastha University** Delhi, India  
*Bachelor of Technology (BTech) in Information Technology* 2014 – 2018

## EXPERIENCE

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- **Indraprastha Institute of Information Technology, Delhi (IIIT-D)** Delhi, India  
*Undergraduate Researcher and Research Associate at PreCog Research Lab* December 2016 - February 2019
  - **Area:** Social Computing - Security and Privacy on Online Social Networks (OSNs).
  - **Advisor:** Prof. Ponnurangam Kumaraguru.
  - **Work:** As an undergraduate, I worked on a characterization study of cross-platform campaigns that use multiple OSN platforms and phone numbers for monetization. See publications for details. Later, I also worked on understanding and building tools to mitigate misinformation on WhatsApp. Details [here](#). Media coverage [here](#).
- **University of Maryland, College Park (UMD)** remotely from Delhi, India  
*Research Assistant at Security, Privacy, People Lab (SP2)* December 2017 - December 2018
  - **Area:** Usable Privacy and Security.
  - **Advisors:** Prof. Michelle Mazurek and Dr. Elissa Redmiles.
  - **Work:** Research focuses on understanding whether users make rational security decisions and improving the quality of security advice via qualitative, quantitative, and data science projects. See publications for details.
- **All India Council for Technical Education (AICTE), MHRD, GoI** Delhi, India  
*Research and Development Intern* October 2017 - March 2018
  - **Problem Statement:** Prediction of Admission & Jobs in Engineering & Technology/Management/Pharmacy.
  - **Advisors:** Dr. N.H. Siddalingaswamy (Director, AICTE).
  - **Work:** In a team of 5 and with a project budget of Rs. 3 lakh, we analyzed AICTE's employment statistics dataset and developed dynamic analytic dashboards to aid AICTE in granting approvals to higher education institutions.

## PUBLICATIONS

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### CONFERENCE

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- Redmiles, E.M., Maszkiewicz, L., Hwang E., **Kuchhal D.**, Liu, E., Morales, M., Peskov, D., Rao, S., Stevens, R., Gligori, K., Kross, K., Mazurek, M.L., Daume III, H.  
**Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts.**  
2019 Conference on Empirical Methods in Natural Language Processing (**EMNLP-IJCNLP 2019**).  
*Acceptance Rate: 23.8% (684/2877)* [[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.**  
The 25th 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\*.**  
The 10th ACM Conference on Web Science (**WebSci**), Amsterdam, Netherlands, 2018.  
*Acceptance Rate: 27% (30/113)* [[dl.acm.org](#)] [[pdf](#)]  
**Award: Runner up for Best Student Paper**

## JOURNAL

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- 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* [[pdf](#)]

## WORKSHOP

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- Redmiles, E.M., Morales, M., Maszkiewicz, L., Stevens R., Liu E., **Kuchhal, D.** and Mazurek, M.L., **First Steps Toward Measuring the Readability of Security Advice.**  
The 2018 IEEE Security & Privacy Workshop on Technology and Consumer Protection (**ConPro**), San Francisco, USA, 2018. [[ieee-security.org](#)] [[pdf](#)]

## POSTERS

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- Redmiles, E. M., Hwang, E., **Kuchhal D.**, Liu, E., Maszkiewicz, L., Morales, M., Peskov, D., Stevens, R., and Mazurek, M. L., **Measuring Security Advice Quality: First Steps.** The 27th **USENIX** Security Symposium, 2018. [[proposal pdf](#)]
- *I presented this poster at CCS2018:* Redmiles, E. M., Dickerson, J. P., Gummadi, K. and Mazurek, M. L., **Equitable Security: Optimizing Distribution of Nudges and Resources.** The 25th ACM Conference on Computer and Communications Security (**CCS**), 2018. [[dl.acm.org](#)] [[poster pdf](#)] [[proposal pdf](#)]

## RELEVANT COURSEWORK

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- **Fall 2019/CS6262 - Network Security:** Instructor: Prof. Wenke Lee.
- **Fall 2019/CS8803 - Empirical Measurement and Security:** Instructor: Prof. Paul Pearce.
- **Spring 2020/CS6238 - Secure Computer Systems:** Instructor: Prof. Mustaque Ahamad.
- **Spring 2020/ECE4894 - Intro to Malware Reverse Engineering:** Instructor: Prof. Brendan Saltaformaggio.
- **Summer 2020/CS7641 - Machine Learning:** Instructor: Dr. Mahdi Roozbahani.

## TEACHING

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- **Spring 2020/CS6262 - Network Security:** ~ 220 students, with Prof. Wenke Lee.
- **Summer 2020/CS6262 - Network Security:** ~ 170 students, with Prof. Wenke Lee.

## ACHIEVEMENTS

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- **Smart India Hackathon 2017, MHRD, Government of India:** 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](#)]
- **Association for Computing Machinery (ACM):** Received 'Recognition of Service Award' as founding Chair of a 80+ strong team of ACM-MAIT Student Chapter.
- **ACM CCS Student Travel Grant:** Was awarded a grant of USD 1000 to attend ACM CCS in Toronto, Canada.