

# Sam G. Havron

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CONTACT INFORMATION	Cornell Tech, 2 West Loop Road New York, NY 10044	Email: <a href="mailto:havron@cs.cornell.edu">havron@cs.cornell.edu</a> Web: <a href="https://havron.dev">https://havron.dev</a>
RESEARCH INTERESTS	I study computer security and privacy problems in the context of intimate partner violence ( <a href="https://ipvttechresearch.org">https://ipvttechresearch.org</a> ). Interests include human-centered security, digital safety, and privacy.	
EDUCATION	<b>Cornell University</b> Ph.D. and M.S., Computer Science In residence at Cornell Tech. Advisors: <a href="#">Thomas Ristenpart</a> and <a href="#">Nicola Dell</a> . <b>University of Virginia</b> B.S., Computer Science	New York, NY August 2017 - present  Charlottesville, VA August 2014 - May 2017
ACADEMIC AWARDS	<ul style="list-style-type: none"><li>Best Paper Honorable Mention for [1] at ACM CSCW.</li><li>Cornell Graduate School Fellowship. Approximately 20% of Cornell doctoral students receive this fellowship.</li><li>Louis T. Rader Award for Outstanding Undergraduate Education at the University of Virginia.</li></ul>	November 2019 August 2017 May 2017
PUBLICATIONS	<ul style="list-style-type: none"><li>[1] “Is my phone hacked?” Analyzing Clinical Computer Security Interventions with Survivors of Intimate Partner Violence. Diana Freed*, <a href="#">Sam Havron*</a>, Rahul Chatterjee, Emily Tseng, Andrea Gallardo, Thomas Ristenpart, Nicola Dell. <i>ACM CSCW, 2019</i>. <a href="#">Best Paper Honorable Mention Award</a>. *co-equal first authors.</li><li>[2] Clinical Computer Security for Victims of Intimate Partner Violence. <a href="#">Sam Havron*</a>, Diana Freed*, Rahul Chatterjee, Damon McCoy, Nicola Dell, Thomas Ristenpart. <i>28th USENIX Security Symposium, 2019</i>. *co-equal first authors.</li><li>[3] The Spyware Used in Intimate Partner Violence. Rahul Chatterjee, Periwinkle Doerfler, Hadas Orgad, <a href="#">Sam Havron</a>, Jackeline Palmer, Diana Freed, Karen Levy, Nicola Dell, Damon McCoy, Thomas Ristenpart. <i>39th IEEE Symposium on Security and Privacy 2018</i>.</li><li>[4] Poster: Secure Multi-Party Computation as a Tool for Privacy-Preserving Data Analysis. <a href="#">Sam Havron</a>, David Evans. <i>37th IEEE Symposium on Security and Privacy 2016</i>.</li></ul>	
PRESENTATIONS	<ul style="list-style-type: none"><li><i>Lawyers Committee Against Domestic Violence (LCADV), New York, NY</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” September 12th, 2019</li><li><i>28th USENIX Security Symposium, Santa Clara, CA</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” August 14th, 2019</li><li><i>Empire Hacking, New York, NY</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” June 11th, 2019<ul style="list-style-type: none"><li>– “This was one of the best-reviewed talks of any recent @EmpireHacking,” Dan Guido (CEO, Trail of Bits) <a href="https://twitter.com/dguido/status/1178734756747468800">https://twitter.com/dguido/status/1178734756747468800</a></li></ul></li><li><i>Bronx Legal Services, The Bronx, NY</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” June 4th, 2019</li></ul>	
IMPACT	<ul style="list-style-type: none"><li>Led direct interventions to help over 95 victims (to-date) of intimate partner violence navigate technology abuse [2].</li><li>Based on our study [3], Google stopped serving advertisements on search terms relating to intimate partner violence and increased enforcement of Play Store policies.</li></ul>	
SELECT PRESS COVERAGE	Titles are clickable. Full list is available at: <a href="https://havron.dev/media">https://havron.dev/media</a> <ul style="list-style-type: none"><li>“NYC Has Hired Hackers to Hit Back at Stalkerware,” <i>MIT Technology Review</i> (August 14, 2019)</li></ul>	

- “New Tools Help Detect Digital Domestic Abuse,” *Cornell Chronicle* (August 13, 2019)
- “How ‘Stalkerware’ Apps are Letting Abusive Partners Spy on Their Victims,” *MIT Technology Review* (July 10, 2019)
- “The Simple Way Apple and Google Let Domestic Abusers Stalk Victims,” *WIRED* (July 2, 2019)
- “Tech Can Impact Domestic Violence – Not Always in a Positive Way,” *Smart Cities Dive* (May 30, 2019)
- “Hacker Eva Galperin Has a Plan to Eradicate Stalkerware,” *WIRED* (April 3, 2019)
- “Hundreds of Apps Can Empower Stalkers to Track Their Victims,” *The New York Times* (May 19, 2018)

## TEACHING EXPERIENCE

- Graduate Teaching Assistant, Cornell CS 5435 Fall 2018  
Computer Security and Privacy in the Wild (by Prof. Ari Juels)
- Undergraduate Teaching Assistant, UVA CS 2150 Spring 2016 - Spring 2017  
Data Structures and C++ (by Prof. Aaron Bloomfield)
- Undergraduate Teaching Assistant, UVA CS/ECE 2330 Fall 2015 - Fall 2016  
Digital Logic Design (by Prof. Joanne Dugan)

## DEPARTMENT AND COMMUNITY SERVICE

- Instructor - Expanding Your Horizons (EYH) Ithaca, NY  
Taught middle school girls from at-risk communities April 2018  
about computer programming, e.g., using paper airplanes  
as an analogy for TCP/IP protocols. 500+ girls attend EYH.
- Contest Judge - UVA High School Programming Contest Charlottesville, VA  
Helped create coding problems and run the largest Spring 2015 - Spring 2017  
programming competition for high school students  
in the mid-Atlantic region of the U.S.
- Board member of PhD student association at Cornell Tech (PACT). New York, NY, August  
2018 - present
- Secretary of Cornell Computer Science Graduate Organization (CSGO). Ithaca, NY, August  
2017 - May 2018

## RELEVANT COURSES TAKEN

Security & Privacy Technologies (CS 6431)      Advanced Algorithms (CS 6820)  
Advanced Programming Languages (CS 6110)      Applied Machine Learning (CS 5785)  
Designing Secure Cryptography (CS 6831)

## SKILLS

- Select repositories: <https://github.com/havron>
- Programming Languages:
  - Standard proficiency: Python, Java, C++.
  - Limited/cursory proficiency: OCaml, C, JavaScript, SQL.
- Technologies/frameworks:
  - Systems: Bash scripting, Linux, Git, Vim
  - Data Analysis: Jupyter Notebooks, sklearn, pandas
  - Modern Web Development: Docker, Django, Flask, AWS (EC2, S3, DynamoDB,  $\lambda$ , etc), Hugo
  - Technical Writing:  $\text{\LaTeX}$ , Overleaf

## REFERENCES

- Nicola Dell, Assistant Professor, Jacobs Technion-Cornell Institute, Cornell University
- Thomas Ristenpart, Associate Professor, Cornell Tech, Cornell University