

# 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://ipvtechresearch.org">https://ipvtechresearch.org</a> ). Interests include human-centered security, digital safety, and privacy, especially in the context of marginalized and vulnerable communities.	
EDUCATION	<b>Cornell University</b> Ph.D. and M.S. in Computer Science In residence at Cornell Tech, NYC. Advisors: <a href="#">Thomas Ristenpart</a> and <a href="#">Nicola Dell</a> . <b>University of Virginia</b> B.S. in 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>	
RESEARCH IMPACT	<ul style="list-style-type: none"><li>• Led direct interventions to help over 104 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> <li>• “New Tools Help Detect Digital Domestic Abuse,” <i>Cornell Chronicle</i> (August 13, 2019)</li> <li>• “How ‘Stalkerware’ Apps are Letting Abusive Partners Spy on Their Victims,” <i>MIT Technology Review</i> (July 10, 2019)</li> <li>• “The Simple Way Apple and Google Let Domestic Abusers Stalk Victims,” <i>WIRED</i> (July 2, 2019)</li> <li>• “Tech Can Impact Domestic Violence – Not Always in a Positive Way,” <i>Smart Cities Dive</i> (May 30, 2019)</li> <li>• “Hacker Eva Galperin Has a Plan to Eradicate Stalkerware,” <i>WIRED</i> (April 3, 2019)</li> <li>• “Hundreds of Apps Can Empower Stalkers to Track Their Victims,” <i>The New York Times</i> (May 19, 2018)</li> </ul>	
TEACHING EXPERIENCE	<ul style="list-style-type: none"> <li>• Graduate Teaching Assistant, Cornell CS 5435 Computer Security and Privacy in the Wild (by Prof. Ari Juels) Fall 2018</li> <li>• Undergraduate Teaching Assistant, UVA CS 2150 Data Structures and C++ (by Prof. Aaron Bloomfield) Spring 2016 - Spring 2017</li> <li>• Undergraduate Teaching Assistant, UVA CS/ECE 2330 Digital Logic Design (by Prof. Joanne Dugan) Fall 2015 - Fall 2016</li> </ul>	
DEPARTMENT AND COMMUNITY SERVICE	<ul style="list-style-type: none"> <li>• Clinician - Computer Security Clinic for IPV Survivors Help lead a computer security clinic for IPV survivors. New York, NY November 2018 - present</li> <li>• Mentor - Women in Technology and Entrepreneurship in New York (WiTNY). Mentored 2 research interns New York, NY Summer 2019 - present</li> <li>• Instructor - Expanding Your Horizons (EYH) Taught middle school girls from at-risk communities about computer programming, e.g., using paper airplanes as an analogy for TCP/IP protocols. 500+ girls attend EYH. Ithaca, NY April 2018</li> <li>• Contest Judge - UVA High School Programming Contest Helped create coding problems and run the largest programming competition for high school students in the mid-Atlantic region of the U.S. Charlottesville, VA Spring 2015 - Spring 2017</li> <li>• Board member of PhD student association at Cornell Tech (PACT). New York, NY, August 2018 - present</li> <li>• Secretary of Cornell Computer Science Graduate Organization (CSGO). Ithaca, NY, August 2017 - May 2018</li> </ul>	
RELEVANT COURSES TAKEN	Security & Privacy Technologies (CS 6431) Advanced Programming Languages (CS 6110) Designing Secure Cryptography (CS 6831)	Advanced Algorithms (CS 6820) Applied Machine Learning (CS 5785)
SKILLS	<ul style="list-style-type: none"> <li>• Select pinned GitHub repositories: <a href="https://github.com/havron">https://github.com/havron</a> <ul style="list-style-type: none"> <li>– havron/daas: Marketplace app implemented with tiered Docker microservices, including search and recommendation engines, load balancing, CI staging &amp; deployment, and more.</li> <li>– stopipv/isdi: Non-invasive spyware and stalkerware scanning tool for iOS and Android.</li> </ul> </li> <li>• Programming Languages: <ul style="list-style-type: none"> <li>– Standard proficiency: Python, Java, C++</li> <li>– cursory proficiency: OCaml, C, JavaScript, SQL</li> </ul> </li> <li>• Technologies/frameworks: <ul style="list-style-type: none"> <li>– Systems: Bash scripting, Linux, Git, Vim</li> <li>– Data Analysis: Jupyter Notebooks, scikit-learn, pandas</li> <li>– Modern Web Development: Docker, Django, Travis CI, Flask, AWS (EC2, S3, DynamoDB, <math>\lambda</math>, etc), Hugo static web compiler</li> <li>– Technical Writing: <math>\text{\LaTeX}</math>, Overleaf</li> </ul> </li> </ul>	

## REFERENCES

- Nicola Dell, Assistant Professor, [Jacobs Technion-Cornell Institute](#), Cornell University
- Thomas Ristenpart, Associate Professor, Cornell Tech, Cornell University