

Sam G. Havron

CONTACT INFORMATION	Cornell Tech – 2 West Loop Road New York, NY 10044	Email: havron@cs.cornell.edu Web: https://havron.dev
RESEARCH INTERESTS	I study computer security and privacy problems in the context of intimate partner violence (https://ipvtechresearch.org). Interests include human-centered security, digital safety, and privacy, especially in the context of marginalized and vulnerable communities.	
EDUCATION	Cornell University Ph.D. and M.S. in Computer Science In residence at Cornell Tech, NYC. Advisors: Thomas Ristenpart and Nicola Dell . University of Virginia B.S. in Computer Science	New York, NY August 2017 - present Charlottesville, VA August 2014 - May 2017
AWARDS	<ul style="list-style-type: none">• Advocate of New York City Award.• Best Paper Honorable Mention for [1] at ACM CSCW.• Cornell Graduate School Fellowship. Approximately 20% of Cornell doctoral students receive this fellowship.• Louis T. Rader Award for Outstanding Undergraduate Education at the University of Virginia.	2019 November 2019 August 2017 May 2017
PUBLICATIONS	<ul style="list-style-type: none">[1] Diana Freed*, Sam Havron*, Rahul Chatterjee, Emily Tseng, Andrea Gallardo, Thomas Ristenpart, Nicola Dell. “Is my phone hacked?” Analyzing Clinical Computer Security Interventions with Survivors of Intimate Partner Violence. <i>ACM CSCW, 2019</i>. Best Paper Honorable Mention Award. *co-equal first authors.[2] Sam Havron*, Diana Freed*, Rahul Chatterjee, Damon McCoy, Nicola Dell, Thomas Ristenpart. Clinical Computer Security for Victims of Intimate Partner Violence. <i>28th USENIX Security Symposium, 2019</i>. *co-equal first authors.[3] Rahul Chatterjee, Periwinkle Doerfler, Hadas Orgad, Sam Havron, Jackeline Palmer, Diana Freed, Karen Levy, Nicola Dell, Damon McCoy, Thomas Ristenpart. The Spyware Used in Intimate Partner Violence. <i>39th IEEE Symposium on Security and Privacy 2018</i>.[4] Sam Havron, David Evans. Poster: Secure Multi-Party Computation as a Tool for Privacy-Preserving Data Analysis. <i>37th IEEE Symposium on Security and Privacy 2016</i>.	
PRESENTATIONS	<ul style="list-style-type: none">• <i>Lawyers Committee Against Domestic Violence (LCADV), New York, NY</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” September 12th, 2019• <i>28th USENIX Security Symposium, Santa Clara, CA</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” August 14th, 2019• <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">– “This was one of the best-reviewed talks of any recent @EmpireHacking,” Dan Guido (CEO, Trail of Bits) https://twitter.com/dguido/status/1178734756747468800• <i>Bronx Legal Services, The Bronx, NY</i>, “Clinical Computer Security for Victims of Intimate Partner Violence” June 4th, 2019	
RESEARCH IMPACT	<ul style="list-style-type: none">• Led direct interventions to help over 118 victims (to-date) of intimate partner violence navigate technology abuse [2].• Based on our study [3], Google stopped serving advertisements on search terms relating to intimate partner violence and increased enforcement of Play Store policies.	

SELECT PRESS COVERAGE	Titles are clickable. Full list is available at: https://havron.dev/media	
	<ul style="list-style-type: none"> • U.S. Senator Kamala Harris (D-CA) tweeted about a WBUR podcast featuring our team (podcast published November 27, 2019) • “NYC Has Hired Hackers to Hit Back at Stalkerware,” <i>MIT Technology Review</i> (August 14, 2019) • “New Tools Help Detect Digital Domestic Abuse,” <i>Cornell Chronicle</i> (August 13, 2019) • “How ‘Stalkerware’ Apps are Letting Abusive Partners Spy on Their Victims,” <i>MIT Technology Review</i> (July 10, 2019) • “The Simple Way Apple and Google Let Domestic Abusers Stalk Victims,” <i>WIRED</i> (July 2, 2019) • “Tech Can Impact Domestic Violence – Not Always in a Positive Way,” <i>Smart Cities Dive</i> (May 30, 2019) • “Hacker Eva Galperin Has a Plan to Eradicate Stalkerware,” <i>WIRED</i> (April 3, 2019) • “Hundreds of Apps Can Empower Stalkers to Track Their Victims,” <i>The New York Times</i> (May 19, 2018) 	
TEACHING EXPERIENCE	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Technology Consultant - Computer Security Clinic for IPV Survivors New York, NY Help lead a computer security clinic for over 118 IPV survivors to-date. November 2018 - present • Mentor - Women in Technology and Entrepreneurship in New York (WiTNY). Mentored 2 research interns New York, NY Summer 2019 - present • Instructor - Expanding Your Horizons (EYH) Ithaca, NY 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. April 2018 • Contest Judge - UVA High School Programming Contest Charlottesville, VA Helped create coding problems and run the largest programming competition for high school students in the mid-Atlantic region of the U.S. Spring 2015 - Spring 2017 • 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 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"> • Select pinned GitHub repositories: https://github.com/havron <ul style="list-style-type: none"> – <code>havron/daas</code>: Marketplace app implemented with tiered Docker microservices, including search and recommendation engines, load balancing, CI staging & deployment, and more. – <code>stopipv/isdi</code>: Non-invasive spyware and stalkerware scanning tool for iOS and Android. • Programming Languages: <ul style="list-style-type: none"> – Standard proficiency: Python, Java, C++ – Cursory proficiency: OCaml, C, JavaScript, SQL • Technologies/frameworks: <ul style="list-style-type: none"> – Systems: Bash scripting, Linux, Git, Vim 	

- Data Analysis: Jupyter Notebooks, scikit-learn, pandas
- Modern Web Development: Docker, Django, Travis CI, Flask, AWS (EC2, S3, DynamoDB, λ , etc), Hugo static web compiler
- Technical Writing: \LaTeX , Overleaf

REFERENCES

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