

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., Computer Science In residence at Cornell Tech, NYC. Advisors: Thomas Ristenpart and Nicola Dell . University of Virginia B.S., Computer Science	New York, NY August 2017 - present Charlottesville, VA August 2014 - May 2017
ACADEMIC AWARDS	<ul style="list-style-type: none">• 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.	November 2019 August 2017 May 2017
PUBLICATIONS	<ul style="list-style-type: none">[1] “Is my phone hacked?” Analyzing Clinical Computer Security Interventions with Survivors of Intimate Partner Violence. Diana Freed*, Sam Havron*, Rahul Chatterjee, Emily Tseng, Andrea Gallardo, Thomas Ristenpart, Nicola Dell. <i>ACM CSCW, 2019</i>. Best Paper Honorable Mention Award. *co-equal first authors.[2] Clinical Computer Security for Victims of Intimate Partner Violence. Sam Havron*, Diana Freed*, Rahul Chatterjee, Damon McCoy, Nicola Dell, Thomas Ristenpart. <i>28th USENIX Security Symposium, 2019</i>. *co-equal first authors.[3] The Spyware Used in Intimate Partner Violence. Rahul Chatterjee, Periwinkle Doerfler, Hadas Orgad, Sam Havron, Jackeline Palmer, Diana Freed, Karen Levy, Nicola Dell, Damon McCoy, Thomas Ristenpart. <i>39th IEEE Symposium on Security and Privacy 2018</i>.[4] Poster: Secure Multi-Party Computation as a Tool for Privacy-Preserving Data Analysis. Sam Havron, David Evans. <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 99 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"> • “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 Computer Security and Privacy in the Wild (by Prof. Ari Juels) Fall 2018 • Undergraduate Teaching Assistant, UVA CS 2150 Data Structures and C++ (by Prof. Aaron Bloomfield) Spring 2016 - Spring 2017 • Undergraduate Teaching Assistant, UVA CS/ECE 2330 Digital Logic Design (by Prof. Joanne Dugan) Fall 2015 - Fall 2016 	
DEPARTMENT AND COMMUNITY SERVICE	<ul style="list-style-type: none"> • 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 • 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 • 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	<ul style="list-style-type: none"> • Select pinned GitHub repositories: https://github.com/havron <ul style="list-style-type: none"> – havron/daas: Marketplace app implemented with tiered Docker microservices, including search and recommendation engines, load balancing, CI staging & deployment, and more. – stopipv/isdi: 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: L^AT_EX, Overleaf 	
REFERENCES	<ul style="list-style-type: none"> • Nicola Dell, Assistant Professor, Jacobs Technion-Cornell Institute, Cornell University • Thomas Ristenpart, Associate Professor, Cornell Tech, Cornell University 	