Alejandro Cuevas

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Current position

Ph.D. Candidate, Societal Computing Software and Societal Systems, Carnegie Mellon University

Interests

Areas Computer security; Measurements; Economics; Computational Social Science
Sub-areas Underground Communities; Cryptocurrencies; Social Media; LLMs

Education

BS with honors in Security and Risk Analysis, Schreyer Honors College The Pennsylvania State University

PHD in Societal Computing, School of Computer Science Carnegie Mellon University

Publications

- Cuevas, A., Scurrell, J. V., Brown, E. M., Entenmann, J., and Daepp, M. I. G. (2025), "Collecting Qualitative Data at Scale with Large Language Models: A Case Study", *Proceedings of the ACM in Human-computer Interaction (CSCW)* (To Appear).
- Cuevas, A. and Christin, N. (2024), "Does Online Anonymous Market Vendor Reputation Matter?", USENIX Security Symposium 2024 (USENIX Sec.)
 - Tsuchiya, T., Cuevas, A., and Christin, N. (2024), "Identifying Risky Vendors in Cryptocurrency P2P Marketplaces", *The ACM Web Conference (WWW)*.
- Martorana, A., Chang, E., Hibshi, H., and Cuevas, A. (2023), "Investigating the Experiences of Female CTF Players", Workshop on Security Information Workers (WSIW)
 - Kawai, D., Cuevas, A., Routledge, B., Zetlin-Jones, A., and Christin, N. (2023), "Is Your Digital Neighbor a Reliable Investment Advisor?", *The ACM Web Conference (WWW)*
 - Tsuchiya, T., Cuevas, A., Magelinski, T., and Christin, N. (2023), "Misbehavior and Account Suspension in an Online Financial Communication Platform", *The ACM Web Conference (WWW)*
- Cuevas, A., Hogan, E., Hibshi, H., and Christin, N. (2022), "Observations From an Online Security Competition and Its Implications on Crowdsourced Security", CMU-CyLab-22-001, CMU CyLab.
 - Cuevas, A., Miedema, F., Soska, K., Christin, N., and van Wegberg, R. (2022), "Measurement by Proxy: On the Accuracy of Online Marketplace Measurements", *USENIX Security Symposium (USENIX)*
- Vermeer, M., West, J., Cuevas, A., Niu, S., Christin, N., Van Eeten, M., Fiebig, T., Gañán, C., and Moore, T. (2021), "A Framework for Asset Discovery: Synthesizing Advances in Network Measurements for Protecting Organizations", *IEEE European Symposium on Security & Privacy (EURO S&P)*
- Mu, D., Guo, W., Cuevas, A., Chen, Y., Gai, J., Xing, X., Mao, B., and Song, C. (2019), "RENN: Efficient Reverse Execution with Neural-Network-assisted Alias Analysis", *IEEE/ACM International Conference on Automated Software Engineering (ASE)*
- Mu, D., Cuevas, A., Yang, L., Hu, H., Xing, X., Mao, B., and Wang, G. (2018), "Understanding the Reproducibility of Crowd-reported Security Vulnerabilities", *USENIX Security Symposium* (USENIX Sec.)
 - Le Blond, S., Cuevas, A., Troncoso-Pastoriza, J., Jovanovic, P., Ford, B., and Hubaux, J. (2018), "On Enforcing the Digital Immunity of a Large Humanitarian Organization", *IEEE Symposium on Security & Privacy (S&P)*, Distinguished Paper Award.

Research Positions

2024 - 2025	Microsoft Research	Research Consultant
2023	Report to: Dr. Madeleine I. G. Daepp Microsoft Research	Research Intern
2022	Advised by: Dr. Glen Weyl and Dr. Madeleine I. G. Daepp TU Delft Hosted by: Prof. Rolf van Wegberg	Visiting Researcher
2018	Hosted by: Prof. Rolf van Wegberg Stevens Institute of Technology Hosted by: Prof. Jun Xu	Visiting Scholar
2016-2018	The Pennsylvania State University	Research Assistant
2017	Advised by: Profs. Peng Liu, Dingao Wu, and Xinyu Xing EPFL - École Polytechnique Fédéderale de Lausanne	Research Assistant
2016	Advised by: Profs. Jean-Pierre Hubaux and Bryan Ford The Pennsylvania State University Advised by: Profs. John Carroll and Ben Hanrahan	Research Assistant
	Industry Experience	
2019-2025	Redoux (redoux.nyc) Report to: Self	Co-Founder
2019	Neutrality Sarl (neutrality.ch)	Consultant
2018	Report to: Dr. Stevens Le Blond EPFL - École Polytechnique Fédéderale de Lausanne Report to: Prof. Joan Biogra Hubany	Software Engineer
2016	Report to: Prof. Jean-Pierre Hubaux Microsoft Description:	Software Engineer
2015	Report to: Kunal Gandhi PwC: PricewaterhouseCoopers Report to: Tom Kovell	Consulting Intern
	Teaching	
2023	Carnegie Mellon University	Teaching Assistant
2022	Course: 07-300: "Research and Innovation in Computer Science" Carnegie Mellon University	Teaching Assistant
2017	Course: 17-303 "Cryptocurrencies, Blockchains, and Applications" The Pennsylvania State University Course: DS-300 "Privacy and Security in the Data Sciences"	Teaching Assistant
	Grants, Honors & Awards	
2022-23 2018 2018 2018 2017	Fellowship - CMU CyLab Presidential Fellowship Distinguished Paper Award - IEEE Symposium on Security and Privacy Finalist - GeekPwn Cybersecurity and AI Contest @ DEFCON Student Scholarship - Black Hat USA Research Grant - (SHC) The Pennsylvania State University	

2017	Research Grant - (SEN) The Pennsylvania State University			
2017	Research Grant - (IST) The Pennsylvania State University			
2016	Information Security Scholarship - (ISC) ²			
2016-2018	Undergraduate Excellence Scholarship - (IST) The Pennsylvania State University			
2015-2018	Dean's List (4.0/4.0) - The Pennsylvania State University	•		
2015-2018	Academic Grant - (PLA) The Pennsylvania State University			
2014-2018	Academic Excellence Grant - (SHC) The Pennsylvania State University	7		
	Invited Talks and Presentations			
2024	"Are Reputation Systems Harmful?"			
2024	IEEE Communications Society	Pittsburgh, PA		
	University of California San Diego	San Diego, CA		
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2024	"How Reputation Systems Fail in Practice"			
	University of Washington Security Seminar	Seattle, WA		
	University of Illinois Urbana-Champaign Security Seminar	Champaign, IL		
	The Pennsylvania State University Security Seminar	State College, PA		
	Purdue CERIAS Seminar	Online		
2024	"Does Online Anonymous Reputation Matter?"			
	USENIX Security Symposium	Philadelphia, PA		
2023	"Risks in Cryptocurrency Markets"	1 .		
	Paraguayan Central Bank	Asunción, PY		
2023	"Does Online Anonymous Reputation Matter?"			
	Cylab Partners Conference	Pittsburgh, PA		
2023	"Applications of Large Language Models in Enterprises"	0 ,		
	Universidad Americana	Asunción, PY		
2022	"Measurement by Proxy: On the Accuracy of Online Marketplace Measurements"			
	USENIX Security Symposium	Boston, MA		
2022	"Introduction to Darkweb Marketplaces"	2000011, 17111		
2022	Universidad Comunera	Online		
2021	"Obs. From an Online Sec. Competition and its Implications on C			
2021	Workshop on Information Security Workers	Online		
2019	"Overview of Cybersecurity in Paraguay: Challenges and Opportu			
2019	Paraguayan National Police (Department of Financial Crimes)	Asunción, PY		
	Service			
2025	PC Member - Free and Open Communications on the Internet (FOCI	()		
2025	PC Member - Conference on Computer and Communications Security (AsiaCCS)			
2024	PC Member - Conference on Computer and Communications Security (AsiaCCS)			
2024	Reviewer - Recent Advances in Intrusion Detection (RAID)	,		
2021-2024	Admissions Committee & Mentor - CMU REUSE			
2023	Faculty Search Comittee - CMU Software and Societal Systems Department (S ₃ D)			
2022	Reviewer - Conference for Decision and Game Theory for Security (Ga			
2022	Admissions Committee - CMU Societal Computing PhD Program	/		
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Miscellaneous

Spoken Languages: Spanish, English, French, Portuguese, Guarani

Vulnerability Reproduction Artifacts: https://github.com/mudongliang/LinuxFlaw RENN Artifacts: https://github.com/mudongliang/RENN Measurement by Proxy Artifacts: https://github.com/aledcuevas/dnm-simulation Dynamic Prober LLM Chatbot: https://github.com/microsoft/dynamic-prober

Last updated: December 6, 2024