Noemi Glaeser

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Twitter/X: @cryptonoemi

Education	
Ph.D., Computer Science University of Maryland (UMD), College Park, MD Max Planck Institute for Security and Privacy (MPI-SP), Bochum, Germany Dissertation: "Practical Cryptography for Blockchains: Secure Cryptography for Blockchain	expected December 2024 graphic
M.S., Computer Science University of Maryland, College Park, MD	May 2021
B.S., Mathematics & B.S.C.S., Computer Science • summa cum laude Minor, Music & Flute performance certificate University of South Carolina Honors College, Columbia, SC	May 2019
Selected Publications *= authors l	isted in alphabetical order
In preparation	
[-] Hot-Cold Threshold Wallet Backups with Proofs of Remembra *S Garg, N Glaeser, A Jain, M Lodder, H Montgomery	ance
Workshop Papers	
[6] Cicada: A framework for private, non-interactive on-chain audiceprint) N. Glaeser, I Seres, M. Zhu, and J. Bonneau Workshop on Cryptographic Tools for Blockchains (CTB 2024) at Eurocrypt 2024	ctions and voting
Conference Papers	
[5] Short Paper: Naysayer Proofs (eprint) I Seres, N. Glaeser, and J. Bonneau FC 2024; also appeared at CTB Workshop 2024	
 [4] Universally Composable NIZKs: Circuit-Succinct, Non-Mallea Updatable (eprint) *B Abdolmaleki, N Glaeser, S Ramacher, D Slamanig IEEE CSF 2024 	able and CRS-
[3] Efficient Registration-Based Encryption (eprint) *N Glaeser, D Kolonelos, G Malavolta, A Rahimi ACM CCS 2023	
[2] Foundations of Coin Mixing Services (eprint) *N Glaeser, M Maffei, G Malavolta, P Moreno-Sanchez, E Tairi, SAK T	Гhyagarajan

ACM CCS 2022

[1] Access control for a database-defined network (proceedings)

N Glaeser and A Wang
IEEE Sarnoff Symposium 2016

Other.....

[B] Key distribution on blockchains: the case for registration-based encryption (\underline{link})

N Glaeser

a16zcrypto blog post

[A] Packet: Cryptographic secret sharing (GitHub)

N Glaeser

UMD Girls Talk Math summer camp

Service

Program Committee

FC (2025, 2024), ISC (2024), IEEE S&P Poster PC (2023), NDSS Student Support Committee (2023)

External Reviewer

CANS (2024), ACISP (2024), IEEE S&P (2024), IACR Crypto (2023), ACM CCS (2023, 2020), PETS (2023.3, 2022.4, 2022.1), PKC (2022)

Founder & Organizer

UMD CS Graduate Peer Mentoring Program

fall 2021-present

Mentor

UMD CS Graduate Peer Mentoring Program

fall 2021-spring 2024

UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C)

fall 2020

Research Positions

a16z crypto

summer 2023

Research Intern, supervised by Joseph Bonneau

Conducted fundamental research in cryptographic protocols for blockchains [5,6] and helped portfolio companies with technical research problems. Also wrote an informational post [B] for the company's blog.

NTT Research, Inc.

summer 2022

Research Intern, supervised by Sanjam Garg

Working on a scheme and formal framework for threshold cryptocurrency wallets in the hot-cold paradigm with strong trust and recovery guarantees.

Fermi National Accelerator Laboratory, Particle Astrophysics

summer 2018

Grace Hopper Computing Intern

Improved efficiency of the Dark Energy Survey's image processing pipeline for optical counterparts of gravitational wave events from avg. 5-8 hrs to 30 min (10-16x). Published two papers. Code available on GitHub at <u>SSantosLab/gw_workflow</u> (Python, Bash).

Temple University Computer Science Department

summer 2016

NSF Research Experience for Undergraduates (REU)

Implemented an access-control security application for the database-defined software-defined network (SDN) controller Ravel (<u>ravel-net.org/</u>). Work published in [2]. Code available on GitHub at <u>ravel-net/REU-access-control</u> (Python, PostgreSQL).

Funding & Awards

NSF Graduate Research Fellowship, US National Science Foundation (NSF) 2020-2023
Phi Beta Kappa Honor Society 2019

Oldest and most prestigious academic honor society in the US

Computational Science Fellowship (Math & Computing), US Dept of Energy 2019, declined Goldwater Scholarship (Honorable Mention) 2018

Technical Skills

Strong: *Python* • *LaTeX* • *HTML/CSS/Javascript*

Proficient: Bash • C++ • Rust

Languages

Native (C2): English, German, Italian Conversational (A2-B1): French, Spanish Beginner (A1): American Sign Language (ASL)