Noemi Glaeser

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Education

Ph.D., Computer Science *December 2024*
University of Maryland (UMD), *College Park, MD*
& Max Planck Institute for Security and Privacy (MPI-SP), *Bochum, Germany*
  Dissertation: "Practical Cryptography for Blockchains: Secure Cryptographic
  Protocols with Minimal Trust"

M.S., Computer Science *May 2021*
University of Maryland, *College Park, MD*

B.S., Mathematics & B.S.C.S., Computer Science • *summa cum laude* *May 2019*
University of South Carolina Honors College, *Columbia, SC*
  Minor, Music & Flute performance certificate

Selected Publications   *authors listed in alphabetical order

In submission…..………………………………………………………………………………

[7] **How to Back Up High-Value Secret Keys**
   *Sanjam Garg, Noemi Glaeser, Abhishek Jain, Michael Lodder, Hart Montgomery

Workshop Papers………………………………………….…………………………………………

[6] **Cicada: A framework for private, non-interactive on-chain auctions and voting**
   Noemi Glaeser, István András Seres, Michael Zhu, Joseph Bonneau
   Workshop on Cryptographic Tools for Blockchains (CTB 2024) at Eurocrypt 2024

Conference Papers………………………………………………………………………………………

[5] **CoVault: Secure, Scalable Analytics of Personal Data**
   Roberta De Viti, Isaac Sheff, Noemi Glaeser, Baltasar Dinis, Rodrigo Rodrigues, Bobby
   Bhattacharjee, Anwar Hithnawi, Deepak Garg, Peter Druschel
   USENIX Security 2025

[4] **Naysayer Proofs**
   István András Seres[†], Noemi Glaeser[†], Joseph Bonneau *([†]equal contribution)*
   FC 2024; CTB Workshop 2024

[3] **Circuit-Succinct Universally-Composable NIZKs with Updatable CRS**
   *Behzad Abdolmaleki, Noemi Glaeser, Sebastian Ramacher, Daniel Slamanig
   IEEE CSF 2024

[2] **Efficient Registration-Based Encryption**
   *Noemi Glaeser, Dimitris Kolonelos, Giulio Malavolta, Ahmadreza Rahimi
   ACM CCS 2023

[1] **Foundations of Coin Mixing Services**
   *Noemi Glaeser, Matteo Maffei, Giulio Malavolta, Pedro Moreno-Sanchez, Erkan Tairi, Sri AravindaKrishnan Thyagarajan
   ACM CCS 2022

Other..

[B] **Key distribution on blockchains: the case for registration-based encryption**
   Noemi Glaeser
   a16zcrypto blog post

[A] **Packet: Cryptographic secret sharing**
   Noemi Glaeser
   UMD Girls Talk Math summer camp

Service

Program Committee

FC (2026, 2025, 2024), ISC (2024), S&P Poster PC (2023), NDSS Student Support Committee (2023)

External Reviewer

Eurocrypt (2026), CANS (2024), ACISP (2024), IEEE S&P (2024), Crypto (2023), CCS (2023, 2020), PETS (2023.3, 2022.4, 2022.1), PKC (2022)

Founder & Organizer

UMD CS Graduate Peer Mentoring Program   *fall 2021-fall 2024*

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 [4,5] 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

Designed a new threshold wallet protocol for backing up high-value, rarely-used secret keys [7] (with Linux Foundation & Lit Protocol).

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)