

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

Minor, Music & Flute performance certificate

University of South Carolina Honors College, *Columbia, SC*

Selected Publications

**authors listed in alphabetical order*

In submission.....

[-] How to Back Up High-Value Secret Keys

*S Garg, [N Glaeser](#), A Jain, M Lodder, H Montgomery

Workshop Papers.....

[6] Cicada: A framework for private, non-interactive on-chain auctions and voting

[N Glaeser](#), I Seres, M Zhu, J Bonneau

Workshop on Cryptographic Tools for Blockchains (CTB 2024) at Eurocrypt 2024

Conference Papers.....

[5] Naysayer Proofs

I Seres[†], [N Glaeser](#)[†], J Bonneau (**equal contribution*)

FC 2024; CTB Workshop 2024

[4] Circuit-Succinct Universally-Composable NIZKs with Updatable CRS

*B Abdolmaleki, [N Glaeser](#), S Ramacher, D Slamanig

IEEE CSF 2024

[3] Efficient Registration-Based Encryption

*[N Glaeser](#), D Kolonelos, G Malavolta, A Rahimi

ACM CCS 2023

[2] Foundations of Coin Mixing Services

*[N Glaeser](#), M Maffei, G Malavolta, P Moreno-Sanchez, E Tairi, SAK Thyagarajan

ACM CCS 2022

[1] **Access control for a database-defined network**

N Glaeser, A Wang
IEEE Sarnoff Symposium 2016

Other.....

[B] **Key distribution on blockchains: the case for registration-based encryption**

N Glaeser
a16zcrypto blog post

[A] **Packet: Cryptographic secret sharing**

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-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 [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 (with Linux Foundation & LIT Protocol).

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 [SSantosLab/gw_workflow](https://github.com/SSantosLab/gw_workflow) (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 (ravel-net.org/). Work published in [2]. Code available on GitHub at [ravel-net/REU-access-control](https://github.com/ravel-net/REU-access-control) (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)