Noemi Glaeser

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Education

Ph.D., Computer Science *estimated December 2024*
University of Maryland (UMD), *College Park, MD*
Max Planck Institute for Security and Privacy (MPI-SP), *Bochum, Germany*
Maryland-Max Planck joint program • advised by Jonathan Katz and Giulio Malavolta

M.S., Computer Science *May 2021*
University of Maryland, *College Park, MD* (GPA 3.9/4.0)

B.S., Mathematics & B.S.C.S., Computer Science *May 2019*
University of South Carolina Honors College, *Columbia, SC*
summa cum laude (GPA: 4.0/4.0) • Minor, Music • Flute performance certificate

Selected Publications

* = authors listed in alphabetical order

Preprints

[8] **Cicada: A framework for private non-interactive on-chain auctions and voting** (eprint)
N Glaeser, I Seres, M Zhu, and J Bonneau

[7] **CoVault: Secure High-Stakes Analytics** (arXiv)
R De Viti, I Scheff, N Glaeser, B Dinis, R Rodrigues, B Bhattacharjee, A Hithnawi, D Garg, P Druschel

Conference Papers

[6] **Short Paper: Naysayer Proofs** (eprint)
I Seres, N Glaeser, and J Bonneau
Financial Crypto 2024

[5] **Universally Composable NIZKs: Circuit-Succinct, Non-Malleable and CRS-Updatable** (eprint)
*B Abdolmaleki, N Glaeser, S Ramacher, D Slamanig
CSF 2024

[4] **Efficient Registration-Based Encryption** (eprint)
*N Glaeser, D Kolonelos, G Malavolta, A Rahimi
ACM CCS 2023

[3] **Foundations of Coin Mixing Services** (proceedings)
*N Glaeser, M Maffei, G Malavolta, P Moreno-Sanchez, E Tairi, SAK Thyagarajan
ACM CCS 2022

[2] **Access control for a database-defined network** (proceedings)
N Glaeser and A Wang

IEEE Sarnoff Symposium 2016

Other……

[1] **Packet: Cryptographic secret sharing** (GitHub)
N Glaeser
UMD Girls Talk Math summer camp

Service

Program Committee

Financial Crypto (2024), IEEE S&P Poster PC (2023), NDSS Student Support Committee (2023)

External Reviewer

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-present*
UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C) *fall 2020*

Technical Skills

Strong: *Python • LaTeX • HTML/CSS/Javascript*
Average: *Bash • C++ • Rust*

Funding & Awards

NSF Graduate Research Fellowship, *National Science Foundation (NSF)* *2020-2023*

Phi Beta Kappa Honor Society *2019*

Oldest and most prestigious academic honor society in the U.S.

Computational Science Fellowship (Math & Computing track), *Dept of Energy* *2019, declined*

Goldwater Scholarship (Honorable Mention) *2018*

Research Positions

a16z crypto *summer 2023*

Research Intern

Conducting fundamental research in cryptographic protocols for blockchains, helping portfolio companies with technical research problems, writing informational materials for public.

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 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 (Python, PostgreSQL).

Languages

Native proficiency: English, German, Italian
Conversational proficiency: French
Beginner: Spanish, American Sign Language (ASL)