# 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] N Glaeser, I Seres, M Zhu, and J Bonneau. (2023). Cicada: A framework for private non-interactive on-chain auctions and voting. https://eprint.iacr.org/2023/1473.

[7] I Seres, N Glaeser, and J Bonneau. (2023). Short Paper: Naysayer Proofs. https://eprint.iacr.org/2023/1472.

[6] R De Viti, I Scheff, N Glaeser, B Dinis, R Rodrigues, B Bhattacharjee, A Hithnawi, D Garg, P Druschel. (2022). CoVault: Secure High-Stakes Analytics. https://arxiv.org/abs/2208.03784.

### *Conference Papers*

[5] *B Abdolmaleki, N Glaeser, S Ramacher, D Slamanig. (2024). Universally Composable NIZKs: Circuit-Succinct, Non-Malleable and CRS-Updatable. ***CSF 2024***. https://eprint.iacr.org/2023/097.

[4] *N Glaeser, D Kolonelos, G Malavolta, A Rahimi. Efficient Registration-Based Encryption. ***ACM CCS 2023***. https://eprint.iacr.org/2022/1505.

[3] *N Glaeser, M Maffei, G Malavolta, P Moreno-Sanchez, E Tairi, SAK Thyagarajan. Foundations of Coin Mixing Services. ***ACM CCS 2022***. https://dx.doi.org/10.1145/3548606.3560637.

[2] N Glaeser and A Wang. Access control for a database-defined network. ***IEEE Sarnoff Symposium 2016***. https://dx.doi.org/10.1109/SARNOF.2016.7846728.

### *Other*

[1] N Glaeser. (2021). Cryptographic secret sharing packet. *UMD Girls Talk Math summer camp*. https://github.com/nglaeser/gtm2021/tree/main/packet.

## 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, American Sign Language (ASL)