

Noemi Glaeser  
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## Education

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### Ph.D., Computer Science

*expected 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

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## Service

### Program Committee

ISC (2024), Financial Crypto (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-present*  
UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C) *fall 2020*

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## Technical Skills

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

Average: *Bash • C++ • Rust*

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## 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

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## Research Positions

**a16z crypto** *summer 2023*

*Research Intern*, supervised by Joseph Bonneau

Conducting fundamental research in cryptographic protocols for blockchains [7,8], 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](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/](http://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).

**Languages**

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