

Noemi Glaeser

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Education

Ph.D., Computer Science

estimated May 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

In Submission

- [6] *N. Glaeser, D. Kolonelos, G. Malavolta, A. Rahimi. (2022). Efficient Registration-Based Encryption. <https://eprint.iacr.org/2022/1505>.
- [5] *B. Abdolmaleki, N. Glaeser, S. Ramacher, D. Slamanig. (2022). Universally Composable NIZKs: Circuit-Succinct, Non-Malleable and CRS-Updatable. <https://eprint.iacr.org/2023/097>
- [4] R. De Viti, I. Scheff, N. Glaeser, B. Dinis, Rodrigo Rodrigues, Jonathan Katz, Bobby Bhattacharjee, Anwar Hithnawi, Deepak Garg, Peter Druschel. (2022). CoVault: Secure High-Stakes Analytics. <https://arxiv.org/abs/2208.03784>.

Conference Papers

- [3] *N. Glaeser, M. Maffei, G. Malavolta, P. Moreno-Sanchez, E. Tairi, S.A.K. Thyagarajan. (2022). Foundations of Coin Mixing Services. *ACM CCS 2022*. <https://dx.doi.org/10.1145/3548606.3560637>.
- [2] N. Glaeser and A. Wang. (2016). Access control for a database-defined network. *Proceedings of IEEE 37th Sarnoff Symposium*. <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>.

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

Service

External Reviewer

ACM CCS (2020, 2023), PETS (2022.1, 2022.4, 2023.3), PKC (2022), NDSS'23 Student Support Committee

Founder & Organizer

UMD CS GradCo Peer Mentoring Program *fall 2021-present*

Mentor

UMD CS GradCo Peer Mentoring Program *fall 2021-present*
UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C) *fall 2020*

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

Working with Sanjam Garg on a threshold signature scheme and formal framework for key management in cryptocurrency wallets with strong trust and recovery guarantees (collaboration with the Linux Foundation).

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 conference paper #1. Code available on GitHub at [ravel-net/REU-access-control](https://github.com/ravel-net/REU-access-control) (Python, PostgreSQL).

Technical Skills

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

Average: *Bash • C++ • Rust*

Languages

Native proficiency: English, German, Italian

Conversational proficiency: French, American Sign Language (ASL)