

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)

Program Committee

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)