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

Preprints

[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

Crypto (2023), ACM CCS (2023, 2020), PETS (2023.3, 2022.4, 2022.1), PKC (2022)

Program Committee

NDSS'23 Student Support Committee

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*

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 Gang

Working on a scheme and formal framework for threshold cryptocurrency wallets in the hot-cold paradigm 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 (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).

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)