Noemi Glaeser

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Education

University of Maryland (UMD), *College Park, MD* *estimated May 2024*
Max Planck Institute for Security and Privacy (MPI-SP), *Bochum, Germany*
Ph.D., Computer Science • *Maryland-Max Planck joint program*
Advisors: Jonathan Katz (UMD) and Giulio Malavolta (MPI-SP)

University of Maryland, *College Park, MD* *May 2021*
M.S., Computer Science (GPA 3.9/4.0)

University of South Carolina Honors College, *Columbia, SC* *May 2019*
B.S., Mathematics • B.S.C.S., Computer Science • *summa cum laude* (GPA: 4.0/4.0)
Minor, Music • Flute performance certificate

Selected Publications

*authors listed in alphabetical order

In Submission

S3.* N. Glaeser, D. Kolonelos, G. Malavolta, A. Rahimi. (2022). Efficient Registration-Based Encryption. https://eprint.iacr.org/2022/1505.

S2.* B. Abdolmaleki, N. Glaeser, S. Ramacher, D. Slamanig. (2022). Composable and Simulation-Extractable Compact NIZKs with Updatable Common Reference Strings.

S1. 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

C2.* 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.

C1. 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.

Journal Papers

J1. K. Herner et al. (2020). Optical follow-up of gravitational wave triggers with DECam during the first two LIGO/VIRGO observing runs. *Astronomy & Computing*, 33, 100425. https://doi.org/10.1016/j.ascom.2020.100425.

Other

O1. 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)* *2019-2024*

Dean's Fellowship, *UMD Computer Science Department* *2019*

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), PETS (2022.1, 2022.4), PKC (2022)

Organizer

UMD CS GradCo Peer Mentoring Program (founder) *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

NTT Research, Inc. *summer 2022*

Research Intern

Working with Sanjam Garg on threshold signatures & MPC-in-the-head zero-knowledge proofs.

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 in 2 papers (including J1). 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 presented in C1. 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)