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.

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, B. Dinis, N. Glaeser, et al. (2022). CoVault: Secure High-Stakes Analytics.

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://eprint.iacr.org/2022/942.

C1. N. Glaeser and A. Wang. (2016). Access control for a database-defined network. *Proceedings of IEEE 37th Sarnoff Symposium*. http://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 Gang on threshold signatures and 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 average 5-8 hrs to 30 min (10-16x speedup). Published in two papers (including J1). Code available 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 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)