

# Noemi Glaeser

[nglaeser@umd.edu](mailto:nglaeser@umd.edu) • [nglaeser.github.io](https://github.com/nglaeser)

LinkedIn, GitHub: [@nglaeser](#)

## 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*  
UMD Cryptography Reading Group *fall 2020-spring 2021*

### **Mentor**

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

## **Selected Talks & Posters**

---

T3. Mathematically Sharing Secrets. (2021). Invited talk, *UMD Girls Talk Math Spring Event*, Virtual.  
T2. Improving bounds on entropy of odd cycle graphs. (2019). (work with Joshua Cooper.) Poster, *UofSC Discovery Day*, Columbia, SC.  
T1. Access control for a database-defined network. (2016). (work with Anduo Wang.) Poster, *IEEE Sarnoff Symposium*, Newark, NJ.  
\*3rd place Poster Award

## **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](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/](http://ravel-net.org/)). Work presented in C1 & T1. Code available 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)