

Noemi Glaeser

nklaeser@umd.edu

nklaeser.github.io

LinkedIn, GitHub: **nglaeser**
ORCID: **0000-0002-6464-2534**

Education

University of Maryland*, College Park, MD

Estimated May 2024

Max Planck Institute for Security and Privacy†, Bochum, Germany

Ph.D., Computer Science

Advisors: Jonathan Katz* and Giulio Malavolta†

University of South Carolina Honors College, Columbia, SC

May 2019

B.S., Mathematics • B.S.C.S., Computer Science

Minor, Music • Flute performance certificate

Graduated *summa cum laude* (GPA 4.0/4.0)

Thomas Jefferson High School for Science & Technology, Alexandria, VA

Jun 2015

#1 public U.S. high school according to *Newsweek* (2014-2016)

Publications

5. R. De Viti, B. Dinis, N. Glaeser, et al. (2021). CoVault: Secure High-Stakes Analytics. In review.
4. K. Herner et al. (2020). The updated DESGW processing pipeline for the third LIGO/VIRGO observing run. *EPJ Web Conf.*, 245, 01008. <https://doi.org/10.1051/epjconf/202024501008>.
3. 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>.
2. K. Abdelfatah, J. Senn, N. Glaeser, and G. Terejanu. (2019). Prediction and Measurement Update of Fungal Toxin Geospatial Uncertainty using a Stacked Gaussian Process. *Agricultural Systems*, 176, 102669. <https://doi.org/10.1016/j.agry.2019.102662>.
1. 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>.

Presentations & Posters

6. Mathematically Sharing Secrets. (2021). *UMD Girls Talk Math Spring Event*, Virtual.
5. Improving bounds on entropy of odd cycle graphs. (2019). (Advised by Joshua Cooper.) *UofSC Discovery Day*, Columbia, SC.
4. Improvements to image processing in the DES-GW pipeline. (2018). (Advised by Kenneth Herner.) *Summer Internship in Science & Tech (SIST) Presentation Day*, Fermi National Accelerator Laboratory, Batavia, IL.
3. Access control for a database-defined network. (2016). (Advised by Anduo Wang.) *Temple University REU Presentations*, Philadelphia, PA.
2. Access control for a database-defined network. (2016). (Advised by Anduo Wang.) *IEEE Sarnoff Symposium*, Newark, NJ.
*Won 3rd place Poster Award
1. Generating geographic and temporal heat maps of aflatoxin incidence using regularized linear models. (2017). (Advised by Gabriel Terejanu.) *UofSC Discovery Day*, Columbia, SC.

Service

| | |
|---|----------------------------|
| UMD Girls Talk Math | <i>Summer 2021</i> |
| Packet Writer | |
| UMD Cryptography Reading Group | <i>Fall 2020 – present</i> |
| Organizer | |
| UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C) | <i>Fall 2020</i> |
| Peer Mentor | |

Funding & Awards

| | |
|---|-----------------------|
| Graduate Research Fellowship , <i>National Science Foundation (NSF)</i> | <i>2019 – 2024</i> |
| \$34,000 annually for doctorate study and research | |
| Computational Science Fellowship (Math & Computing track), <i>Dept of Energy</i> | <i>2019, declined</i> |
| Goldwater Scholarship (Honorable Mention) | <i>2018</i> |
| Outstanding Senior in Mathematics , <i>UofSC Math Dept</i> | <i>Spring 2019</i> |
| Science Undergraduate Research Fellowship (SURF) , <i>UofSC Honors College</i> | <i>Fall 2018</i> |
| \$1,060 for Math Department research | |
| Grace Hopper Scholar , <i>Anita Borg Institute</i> | <i>2017</i> |
| Funding to attend the 2017 Grace Hopper Celebration of Women in Computing | |
| Magellan Scholar Award , <i>UofSC</i> | <i>2016</i> |
| \$2,500 for Computer Science department research | |

Memberships

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|-------------------------------------|-------|
| Phi Beta Kappa Society | 2019- |
| Association for Computing Machinery | 2018- |

Technical Skills

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|------------|----------|------------|----------|
| Python | •••••••• | HTML/CSS | •••••••• |
| LaTeX | •••••••• | Bash | •••••••• |
| Java/C++ | •••••••• | Javascript | •••••••• |
| Linux/UNIX | •••••••• | PostgreSQL | •••••••• |

Languages

Native proficiency: English, German, Italian

Conversational proficiency: French, American Sign Language

Elementary proficiency: Latin

Selected Coursework

(* denotes honors course; † denotes graduate course.)

Mathematics

Computational Number Theory†

Linear Algebra

Ordinary Differential Equations

Analysis I* & II*

Algebraic Structures I & II*

Discrete Mathematics I

Computer Science

Applied Mechanism Design for Social Good†

Intro to Secure Distributed Computation†

Intro to Quantum Information Processing†

Algos in ML: Guarantees & Analyses†

Applied Crypto & Hostile Gov'ts (audit)†

Interactive Technologies†

Human Factors in Security & Privacy†

How to Conduct Great Research (seminar)†

Computer & Network security†

Program Analysis & Understanding†

Introduction to Cryptography*

Computer Architecture*

Theory of Computation

Ethical Hacking

Information Security Principles

June 2021