Noemi Glaeser

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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 Gilles Barthes†

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.agsy.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 *Summer 2021*
Packet Writer

UMD Cryptography Reading Group *Fall 2020 – present*
Organizer

UMD Iribe Initiative for Inclusion & Diversity in Computing (I4C) *Fall 2020*
Peer Mentor

Funding & Awards

Graduate Research Fellowship, *National Science Foundation (NSF)* *2019 – 2024*
$34,000 annually for doctorate study and research

Computational Science Fellowship (Math & Computing track), *Dept of Energy* *2019, declined*

Goldwater Scholarship (Honorable Mention) *2018*

Outstanding Senior in Mathematics, *UofSC Math Dept* *Spring 2019*

Science Undergraduate Research Fellowship (SURF), *UofSC Honors College* *Fall 2018*
$1,060 for Math Department research

Grace Hopper Scholar, *Anita Borg Institute* *2017*
Funding to attend the 2017 Grace Hopper Celebration of Women in Computing

Magellan Scholar Award, *UofSC* *2016*
$2,500 for Computer Science department research

Memberships

Phi Beta Kappa Society *2019-*

Association for Computing Machinery *2018-*

Technical Skills

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