Nikolas Melissaris

IRIF, Université Paris-Cité		nikolasm@gmail.com
Sophie Germain - Room: 4058		https://nikolasmelissaris.github.io/
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Research	Multiparty Computation, Privacy Preserving Machine Learning,	
Interests	Combinatorics, Theory of Computation	
Employment	IRIF, CNRS & Université Paris-Cité	
History	Postdoctoral Researcher, hosted by Geoffroy Couteau	
Education	 Aarhus University PhD, Computer Science Thesis - Better, Faster, Stronger: Improving Security, Efficiency, and Primitiv Advisors: Peter Scholl, Claudio Orlandi Rutgers University MSc, Information Technology School of Applied Mathematics and P National Technical University of Athe BSc and MSc, Applied Mathematics Majors: Discrete Mathematics, Probability/ 	hysical Sciences, ns
Research	 Institut de Recherche en Informatique Research Visit, Spring 2024 Host: Geoffroy Couteau JP Morgan - AlgoCRYPT group, New Research Intern, Summer 2023 Advisors: Antigoni Polychroniadou and Dar Privacy Preserving Machine Learning for G Capital Fund Management, New York O Research Intern, Summer 2021 Performance of clustering techniques on store 	York City niel Escudero. Gradient Boosted Decision Trees. City
	MadHive Inc, New York City Research Assistant, Summer 2019	

Using cryptography to ensure integrity and detect fraud in AdTech technologies.

Computer Security Lab, University of California at Santa Barbara Research Assistant, Summer 2015 Advisors: Professors Christopher Kruegel and Giovanni Vigna. *Armoring Android mobile devices against fake location signals.*

Teaching Computer Science Dept., Aarhus University Teaching Assistant, Cryptology, Fall 2023 Teaching Assistant, Computability and Logic, Spring 2023 Teaching Assistant, Cryptology, Fall 2022 Teaching Assistant, Optimization, Spring 2022

MSIS Dept., Rutgers University

Teaching Assistant, Information Security, Fall 2020, Spring 2021 Instructor, Management Information Science, Summer 2020 Teaching Assistant, Business Data Management, Spring 2020 Teaching Assistant, Fundamentals of Optimization (Graduate), 2019 Teaching Assistant, Statistics, 2019

School of Professional Studies, Columbia University. Instructor, Introduction to Programming with C, Summer 2017

Mathematics Dept., NYC College of Technology Instructor, Discrete Structures and Algorithms I, 2016 Instructor, Quantitative Reasoning, 2017

Computer Science Dept., Brooklyn College

Instructor, Intro to Computer Applications, 2016

Computer Science Dept., Borough of Manhattan Community College Instructor, Principles in Information Science and Computing, 2016

Awards and Fellowships	Stibofonden - \$7k 2023 Summer Research Award, Rutgers University - \$3k 2019, 2020
Community Service	Subreviewer (various years) for CRYPTO, EUROCRYPT, ASIACRYPT, TCC

Publications

- 4. Dung Bui, Geoffroy Couteau, and Nikolas Melissaris. Structured-Seed Local Pseudorandom Generators and their Applications. https://eprint.iacr.org/2024/1027.pdf
- 3. Carsten Baum, Nikolas Melissaris, Rahul Rachuri, and Peter Scholl. Cheater Identification on a Budget: MPC with Identifiable Abort from Pairwise MACs. CRYPTO 2024
- 2. Nikolas Melissaris, Divya Ravi, and Sophia Yakoubov. Threshold-optimal MPC with Friends and Foes. INDOCRYPT 2023
- 1. Pei Peng, Nikolas Melissaris, Emina Soljanin, Bill Lee, Anton Maliev, and Huafeng Fan. Straggling for covert message passing on complete graphs. Allerton 2019

Manuscripts

- 2. Geoffroy Couteau, Alexandrer Koch, Nikolas Melissaris, Sacha Servan-Schreiber, and Peter Scholl. Compressing Pseudorandom Permutations.
- 1. Daniel Escudero, Nikolas Melissaris, Antigoni Polychroniadou, and Akira Takahashi. Zero Knowledge Proof of Training for Decision Trees.