# Nikolas Melissaris

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Research Combinatorics, Graph Theory,

Interests Privacy preserving Machine Learning, and Secure Multiparty Computation

Education (Current) Aarhus University

PhD Student

Advisors: Claudio Orlandi, Peter Scholl

**Rutgers University** 

MSc, Information Technology

GPA: 3.97/4

School of Applied Mathematics and Physical Sciences,

National Technical University of Athens

BSc and MSc, Applied Mathematics Majors: Computer Science, Statistics

Diploma Theses "The concrete security of practical cryptographic constructions",

Advisor: Associate Professor Periklis Papakonstantinou, Rutgers University Survey on the security of cryptographic constructions in the information

theoretic setting

"Mathematical Attacks on RSA"

Advisor: Assistant Professor Petros Stefaneas, NTUA Implementation of attacks on the RSA cryptosystem.

Research

Capital Fund Management, New York City

Research Intern, Summer 2021

Performance of clustering techniques on stock returns.

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 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

## Work Experience

#### Linux System Administrator

The Graduate Center, CUNY, New York, 2015-2016

Supervisors: Gary Kettner, Lihua Wang

Maintaining (patching, upgrading, monitoring, securing) all the Linux servers of the school, migrations to newer technologies, in addition to threat response.

## Software Engineer

Nessos Informatics, Athens, 2014-2015

Supervisor: Pantelis Petrogiannakis

Building web crawlers and scrapers to collect 15 years of basketball statistics

from leagues around the world for the critically acclaimed game

"World Basketball Manager".

Awards and Summer Research Award

Fellowships Rutgers University

2019, 2020

Languages and Skills Greek (native), English (proficient), German (intermediate) Python, R, JavaScript, MATLAB, LATEX, Mathematica

## **Publications**

1. Pei Peng, Nikolas Melissaris, Emina Soljanin, Bill Lee, Anton Maliev, and Huafeng Fan. Straggling for covert message passing on complete graphs. In 57th Annual Allerton Conference on Communication, Control, and Computing, Allerton 2019, Monticello, IL, USA, September 24-27, 2019, pages 453–459. IEEE, 2019

2. Nikolas Melissaris, Divya Ravi, and Sophia Yakoubov. Threshold-Optimal MPC With Friends and Foes. https://eprint.iacr.org/2022/1526.

# Manuscripts

- 1. Carsten Baum, Nikolas Melissaris, Rahul Rachuri, and Peter Scholl. Efficient MPC with Identifiable Abort.
- 2. Nikolas Melissaris and Antigoni Polychroniadou. Agreeing on the same Neural Network after compressing on different data.