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# Dimitris Mouris

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🌐 https://jimouris.github.io

*Computer Security researcher motivated by the impact of cybersecurity in contemporary society and in humanity.*

## Experience

### University of Delaware

Research Assistant

February 2019 – Now

*Research Interests:* • Cybersecurity • Private and trustworthy computation • Privacy-preserving algorithms • Zero-knowledge proofs • Verifiable computation • Side & covert channels attacks.

### Athena Research & Innovation Center

Research Assistant & Software Engineer

September 2017 – December 2018

*My Health My Data (MHMD):* Developed an end-to-end framework enabling privacy-preserving medical data analytics using secure multi-party computation. The framework was developed using Python, NodeJS, JavaScript & HTML, while the privacy-preserving algorithms in SecreC (C-like language).  
🔗 smpc-analytics

## Education

### Doctor of Philosophy (PhD) in Electrical and Computer Engineering

February 2019 – Now

Department of Electrical & Computer Engineering, University of Delaware, DE

GPA 3.9/4

Research Topic: *Private and trustworthy computation*

Advisor: Nektarios G. Tsoutsos

My research focuses on developing a framework that automates *zero-knowledge proofs* for any application.

### Master of Science (MSc) in Computer Science

October 2016 – September 2018

Department of Informatics & Telecommunications, University of Athens, Greece

GPA 9.73/10

The *Computer Systems (Software and Hardware)* specialization covers advanced topics in areas such as computer security & architecture, operating & distributed systems, programming languages, algorithms & data structures.

### Bachelor of Science (BSc) in Computer Science

October 2012 – September 2016

Department of Informatics & Telecommunications, University of Athens, Greece

GPA 8.1/10

## Publications | Research

### Pythia: Intellectual Property Verification in Zero-Knowledge

57<sup>th</sup> ACM/ESDA/IEEE Design Automation Conference (DAC), 2020

D. Mouris & N.G. Tsoutsos

### Covert Data Exfiltration Using Light and Power Channels

37<sup>th</sup> IEEE International Conference on Computer Design, 2019

P. Cronin, C. Gouert, D. Mouris, N.G. Tsoutsos & C. Yang

### TERMinator Suite: Benchmarking Privacy-Preserving Architectures

IEEE Computer Architecture Letters, 2018

D. Mouris, N.G. Tsoutsos & M. Maniatakos

### Privacy Preserving Medical Data Analytics using Secure Multi-Party Computation. An End-To-End Use Case.

M. Sc. thesis for the University of Athens, 2018

A. Giannopoulos & D. Mouris (listed alphabetically)

Supervisors: Y. Ioannidis, M. Garofalakis

## Teaching Assistance

### University of Delaware

Applied Cryptography

Spring 2020

Secure Software Design

Spring 2020

IoT & Embedded Systems Security

Fall 2019

### University of Athens

System Programming

Spring 2017

Logic Programming

Spring 2017

Introduction to Programming

Fall 2014 – 17

Operating Systems

Fall 2016

## CTF Mentoring

Binary exploitation and reverse engineering mentoring for the University of Delaware's undergraduate *Blue Hens* team.

## Languages

Greek (native), English (Fluent)

## Technical Skills

### Programming Paradigms

Procedural 🟩, Object Oriented 🟩, Logic 🟩

### Programming Languages

C 🟩, C++ 🟩, Java 🟩, Python 🟩, Prolog 🟩

### Parallel Programming

POSIX processes & threads 🟩, MPI 🟩,

Open MP 🟩, NVidia CUDA 🟩

### Assembly Languages

x86/x64 🟩, MIPS 🟩

### Markup & Web Languages

NodeJS 🟩, JavaScript 🟩, HTML 🟩

### Scripting

Z shell 🟩, Bash 🟩

### Database Systems

SQL 🟩, MySQL 🟩

### Version Control

Git 🟩, Mercurial 🟩

### Computer Graphics

LaTeX 🟩, OpenGL 🟩