**♀**721 Wharton Dr. Newark, DE 19711 (+1) (302) 407-2887

# Dimitris Mouris

jimouris @ { udel.edu, gmail.com }

https://jimouris.github.io

**O** github.com/jimouris **in** linkedin.com/in/jimouris **y** twitter.com/jimouris ◆ 51131AD7

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

## Experience

University of Delaware

Research Assistant

February 2019 - Now

Private computation
Privacy-preserving algorithms
Zero-knowledge proofs

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

GPA 3.9/4

Department of Electrical & Computer Engineering, University of Delaware, DE Research Topic: Private and trustworthy computation

Advisor: Nektarios G. Tsoutsos

My research focuses on enabling practical and efficient deployment of 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

Department of Informatics & Telecommunications, University of Athens, Greece

October 2012 – September 2016

GPA 8.1/10

Fall 2016

(7)

# Selected 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

Zilch: A Framework for Deploying Transparent Zero-Knowledge Proofs

Cryptology ePrint Archive, Report 2020/1155, In peer review IEEE TIFS

D. Mouris & N.G. Tsoutsos

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

## Technical Skills

**Programming Paradigms** 

Procedural  $\equiv$ , Object Oriented  $\equiv$ ,

Logic =

**Programming Languages** 

 $C \equiv$ ,  $C++ \equiv$ , Java  $\equiv$ , Python  $\equiv$ , Prolog  $\equiv$ 

Parallel Programming

POSIX processes & threads  $\equiv$ , MPI  $\equiv$ ,

Open MP =

**Assembly Languages** 

 $x86/x64 \equiv$ , MIPS  $\equiv$ 

Markup & Web Languages

NodeJS  $\equiv$  , JS  $\equiv$  , HTML  $\equiv$ 

Scripting

 $Z \text{ shell } \equiv$ ,  $Bash \equiv$ 

**Database Systems** 

 $SQL \equiv , MySQL \equiv$ 

**Version Control** 

 $Git \equiv Mercurial \equiv$ 

**Computer Graphics** 

LAT<sub>F</sub>X ≡, OpenGL ≡

# Teaching Assistance

**University of Delaware** 

Microprocessor Systems Fall 2020 Applied Cryptography Spring 2020 Secure Software Design

Spring 2020 Embedded Sys. Security Fall 2019 - 20

**University of Athens** 

System Programming Spring 2017 Logic Programming Spring 2017 Introd. to Programming Fall 2014 – 17

Operating Systems

# Selected Open-Source Projects

libogs-java: Java wrapper for libogs 0 Open Quantum Safe (OQS) Project, 2020

QR Secret Sharing, 2018

## Volunteering

CSAW ESC 2020 Global Co-lead

Challenge developer for research-oriented

embedded systems hacking.

#### CTF Mentoring

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

### Languages

Greek (native), English (fluent)