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

DimitrisMouris

jimouris @ { udel.edu, gmail.com }
https://jimouris.github.io

github.com/jimouris
linkedin.com/in/jimouris
twitter.com/jimouris
51131AD7

DoB: 11th August 1994

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
57th ACM/ESDA/IEEE Design Automation Conference (DAC), 2020
D. Mouris & N.G. Tsoutsos

Covert Data Exfiltration Using Light and Power Channels
37th 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