Dimitris Mouris

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DoB: 11th August 1994

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

Experience

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
Research Topic: *Private and trustworthy computation*   Advisor: Nektarios Georgios Tsoutsos
My research focuses on developing a framework that automates the development of *zero-knowledge proofs* for any application. Our framework is developed in C++ and consists of a high-level programming language, a custom compiler, a code optimizer and a C++ API.

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 treats topics that relate to system-level computation. This includes knowledge areas such as Computer Security, Computer Architecture, Operating & Distributed Systems, Programming Language Implementation, Algorithms & Data Structures and more.

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

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 Athens
Introduction to Programming   Fall 2014 – 17
Operating Systems   Fall 2016
System Programming   Spring 2017
Logic Programming   Spring 2017

University of Delaware
IoT & Embedded Systems Security   Fall 2019

Languages

Greek (native), **English** (fluent)

Technical Skills

Programming Paradigms
Procedural ≣, Object Oriented ≣, Logic ≣, Functional ≣

Programming Languages
C ≣, C++ ≣, Java ≣, Python ≣, Prolog ≣, Datalog ≣, Haskell ≣

Parallel Programming
POSIX processes & threads ≣, MPI ≣, Open MP ≣, NVidia CUDA ≣

Database Systems & Blockchain Frameworks
SQL ≣, MySQL ≣, Hyperledger Fabric ≣

Scripting
Z shell ≣, Bash ≣, C shell ≣

Markup & Web Languages
NodeJS ≣, JavaScript ≣, PHP ≣, HTML ≣, CSS ≣

Assembly Languages
MIPS ≣, Cryptoleq ≣, x86/x64 ≣

Computer Graphics
OpenGL ≣, LaTeX ≣

Version Control
Git ≣, Mercurial ≣