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

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
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 Delaware
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

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 ≡

Languages

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