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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

Athena Research & Innovation Center *Research Assistant & Software Engineer* September 2017 – December 2018
My Health My Data (MHMD): A Horizon 2020 project developing a blockchain-based health data platform enabling privacy-preserving consented data sharing and big data analytics, using techniques like *Secure Multi-party Computation*, *Differential Privacy*, *K-Anonymity* and *Smart Contracts*. MHMD stems from the urgency of securing patient data, reducing “by design” the risk of identity theft and privacy breaches, and introducing a new way to share private information empowering their primary owners, the patients.

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 Tsoutsos
 My research focuses on developing a novel framework for creating zero-knowledge proofs (ZKPs) for any application. Our framework consists of two main components a front-end and a back-end. The front-end supports our novel, high-level programming language (called Zilch) and our custom compiler for translating the Zilch code to zMIPS assembly instructions; zMIPS is our extension to the MIPS ISA to support programming ZKPs. The back-end translates the zMIPS assembly instructions to arithmetic circuits and generates ZKPs for verifying the evaluation of these circuits.

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 Architecture, Operating & Distributed Systems, Programming Language Implementation, 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

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

Introduction to Programming	Fall 2014/15/16/17
Operating Systems	Fall 2016
System Programming	Spring 2017
Logic Programming	Spring 2017

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 ≡, L^AT_EX ≡

Version Control

Git ≡, Mercurial ≡