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Dimitris Mouris

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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

• 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).
🔗 [smqc-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 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

October 2012 – September 2016

Department of Informatics & Telecommunications, University of Athens, Greece

GPA 8.1/10

Selected Publications | Research 🎓

Pythia: Intellectual Property Verification in Zero-Knowledge

57th 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. Maniatakis

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 🟢, Object Oriented 🟢,
Logic 🟢

Programming Languages

C 🟢, C++ 🟢, Java 🟢, Python 🟢, Prolog 🟢

Parallel Programming

POSIX processes & threads 🟢, MPI 🟢,
Open MP 🟢

Assembly Languages

x86/x64 🟢, MIPS 🟢

Markup & Web Languages

NodeJS 🟢, JS 🟢, HTML 🟢

Scripting

Z shell 🟢, Bash 🟢

Database Systems

SQL 🟢, MySQL 🟢

Version Control

Git 🟢, Mercurial 🟢

Computer Graphics

LaTeX 🟢, OpenGL 🟢

Teaching Assistance

University of Delaware

Microprocessor Systems Fall 2020

Applied Cryptography Spring 2020

Secure Software Design Spring 2020

Embedded Systems Security Fall 2019

University of Athens

System Programming Spring 2017

Logic Programming Spring 2017

Introd. to Programming Fall 2014 – 17

Operating Systems Fall 2016

Selected Open-Source Projects

liboqs-java: Java wrapper for liboqs 🔗

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)