# Dimitrios (Dimitris) Mouris

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Applied cryptography researcher motivated by the impact of cryptography in contemporary society and in humanity.

## Research & Work Experience

Nillion (Nilogy Inc.)

Remote

Homomorphic Encryption

SENIOR CRYPTOGRAPHY RESEARCHER

January 2024 - Now

Research and development of an MPC compiler and protocols for Nillion's secure and distributed computing platform.

University of Delaware

Newark, DE, USA

RESEARCH & TEACHING ASSISTANT

February 2019 - December 2023

Applied Cryptography • Secure Multiparty Computation

Zero-knowledge Proofs

Meta Inc.

Bellevue, WA, USA & Remote

PART-TIME STUDENT RESEARCHER (REMOTE)

September 2022 – December 2022

RESEARCH ENGINEER INTERN

June 2022 – August 2022

Development of privacy-enhancing solutions that solve real-world problems such as private attribution and privacy-preserving personalization. Research and implementation of *Delegated Private Matching for Compute*. **f** *Blogpost*, **Q** *Private-ID* 

Amazon Web Services (AWS)

Palo Alto, CA, USA

SOFTWARE DEVELOPMENT ENGINEER (SDE) INTERN

June 2021 – August 2021

Development of Role-Based Access Control (RBAC) for Amazon Redshift to manage permissions and security privileges.

**Athena Research & Innovation Center** 

Athens, Greece

RESEARCH ASSISTANT & SOFTWARE ENGINEER

September 2017 - December 2018

My Health My Data (MHMD) project: Design and implementation of an end-to-end framework for privacy-preserving medical data analytics (i.e., histograms and decision trees) using secure multi-party computation (MPC).

#### **Education**

### Department of Electrical & Computer Engineering, University of Delaware

Newark, DE, USA

DOCTOR OF PHILOSOPHY (PHD) IN ELECTRICAL AND COMPUTER ENGINEERING

February 2019 - December 2023

• Research Topic: Private and Verifiable Computation

Advisor: Nektarios G. Tsoutsos

• My research focuses on privacy-preserving technologies and on building efficient solutions that respect data privacy using cryptographic techniques such as zero-knowledge proofs, homomorphic encryption, and secure multiparty computation.

#### **Department of Informatics & Telecommunications, University of Athens**

Athens, Greece

MASTER OF SCIENCE (MSc) IN COMPUTER SCIENCE

October 2016 - September 2018

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.

#### **Department of Informatics & Telecommunications, University of Athens**

Athens, Greece

BACHELOR OF SCIENCE (BSC) IN COMPUTER SCIENCE

October 2012 - September 2016

# Publications (Selected)

#### JOURNAL ARTICLES

•	D. Mouris, C. Patton, H. Davis, P. Sarkar, and N. Tsoutsos. "Mastic: Private Weighted Heavy-Hitters and Attribute-Based Metrics" in <i>Proc. Priv. Enhancing Technol. (PoPETs),</i> ■ vol. 2025, no. 1, ▶ <i>IETF - CFRG</i> , ♠	2025
•	C. Gouert, D. Mouris, and N. Tsoutsos. "Juliet: A Configurable Processor for Computing on Encrypted Data" in IEEE Trans. on Computers, 🖹 vol. 73, no. 9, 🗘	2024
•	D. Mouris, P. Sarkar, and N. Tsoutsos. "PLASMA: Private, Lightweight Aggregated Statistics against Malicious Adversaries" in <i>Proc. Priv. Enhancing Technol. (PoPETs)</i> ,    vol. 2024, no. 3, □ IETF - CFRG, □	2024
•	D. Mouris, D. Masny, N. Trieu, S. Sengupta, P. Buddhavarapu, and B. Case. "Delegated Private Matching for Compute" in <i>Proc. Priv. Enhancing Technol. (PoPETs)</i> , (a) vol. 2024, no. 2, <b>f</b> <i>Blogpost</i> , (C)	2024
•	C. Gouert, D. Mouris, and N. Tsoutsos. "SoK: New Insights into Fully Homomorphic Encryption Libraries via Standardized Benchmarks" in <i>Proc. Priv. Enhancing Technol. (PoPETs),</i> ≥ vol. 2023, no. 3, pp. 154–172, ▶, ♠	2023
•	D. Mouris, C. Gouert, and N. Tsoutsos. "Privacy-Preserving IP Verification" in IEEE Trans. on Computer-Aided Design of Integrated Circuits and Systems (TCAD), (1) vol. 41, no. 7, pp. 2010–2023	2021
•	D. Mouris and N. Tsoutsos. "Zilch: A Framework for Deploying Transparent Zero-Knowledge Proofs" in IEEE Trans. on Information Forensics and Security (TIFS), vol. 16, pp. 3269–3284, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2021

_	uris, N. Tsoutsos, tectures" in IEEE		ers, 🖹 vol. 17, no. 2, pp. 122–12	5, <b>(7</b> )	2018	
	NCE PAPERS	·				
C. Gouert, M. Ugurbil, D. Mouris, M. de Vega, and N. Tsoutsos. "Ripple: Accelerating Programmable Bootstrap for FHE with Wavelet Approximations" in 27 <sup>th</sup> Information Security Conference (ISC), , FHE Summit,  AMD Second Description of the Conference of the Confere						
M.B. Santos, D. Mouris, M. Ugurbil, S. Jarecki, J. Reis, S. Sengupta, and M. de Vega. "Curl: Private LLMs throu Wavelet-Encoded Look-Up Tables" in Conference on Applied Machine Learning in Information Security (CAMLIS)						
D. Mouris, C. Gouert, and N. Tsoutsos. "MPloC: Privacy-Preserving IP Verification using Logic Locking and Secure Multiparty Computation" in IEEE 29 <sup>th</sup> Int. Symp. on On-Line Testing and Robust System Design (IOLTS), [a], C						
•		nd N. Tsoutsos. <b>"zk-Sherlo</b> al Symposium on VLSI (ISVLSI)	ock: Exposing Hardware Troj //, 🗎 pp. 170-175	ans in Zero-Knowledge" in	IEEE 2022	
•		sos. <b>"Pythia: Intellectual</b> <i><sup>f</sup>erence (DAC),</i> <b>≧</b> pp. 1–6	Property Verification in Zero	o-Knowledge" in ACM/IEEE 5	57 <sup>th</sup> 2020	
OPEN-AC	CESS ARCHIVES					
		nd N. Tsoutsos. " <b>HELM: Na</b> otology ePrint Arch., 🗎 2023	avigating Homomorphic Enc 3/1382, <b>೧</b>	ryption through Gates and	2023	
THESES  • D. Moi	uris. "Private An	d Verifiable Computation	<b>1"</b> in <i>Ph.D. Thesis</i> , Advisor: N.G	Tsoutsos, 🖺	2024	
_			ving medical data analytics u Thesis, Supervisors: Y. Ioannidis	_	2018	
-	cal Skills		7 1	, <u> </u>		
	ning Paradigms	Procedural = Object Original	ented≡, Logic≡, Functional≡			
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	nbly Languages		Database Systems	SQL≡, MySQL≡		
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D. Mouris, N. Tsoutsos, and M. Maniatakos. "TERMinator suite: Benchmarking Privacy-Preserving

Challenge developer and organizer for research-oriented embedded systems hacking competition.

Global Event

**Q** 2020, **Q** 2021, **Q** 2022, **Q** 2023

CSAW Cybersecurity Games & Conference – Embedded Security Challenge

GLOBAL CO-LEAD