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# Georgios Tsimos

## PhD Candidate in Cryptography

Website, Google Scholar  
LinkedIn: gtsimos

### EDUCATION

#### Ph.D. in ELECTRICAL ENGINEERING

University of Maryland, College Park

Aug 2019- Present (exp. December 2024)

Advisor: Professor **Charalampos Papamanthou** (at Yale)

Co-Advisor: Professor **Jonathan Katz** (at UMD)

exp. Aug. 2024

#### M.Sc. in ELECTRICAL ENGINEERING

University of Maryland, College Park

#### M.Sc. in COMPUTER SCIENCE

Athens University of Economics and Business, Greece

Oct 2018- July 2019

9.44/10.0 (Honors)

#### B.Sc. (4-year Ptychion) in COMPUTER SCIENCE

Athens University of Economics and Business, Greece

Oct 2014 - Sept 2018

8.79/10.0 (Honors, Valedictorian)

### ABOUT

I am a **PhD Student** co-advised by **Charalampos Papamanthou** and **Jonathan Katz**, at the **Electrical Engineering** department at the **University of Maryland**. Currently I am a Visiting Assistant in Research (VAR) at **Yale CS**. My **research interests** include several aspects of **applied Cryptography**, such as **Byzantine Consensus** and **Blockchains**, **secure Multi-Party Computation**, **Verifiable Secret Sharing** and more.

My **ongoing research projects** include new techniques for more resource-efficient **Byzantine Consensus** protocols and **practical** improvements of efficiency metrics in **Blockchains**.

During my undergrad, my research focus was in Theoretical CS topics, including Logic and Computational Complexity.

### RESEARCH EXPERIENCE

#### Research Intern

**Chainlink Labs**

May 2024- Present

Remote

#### Research Intern in Distributed Systems

**MystenLabs**

May 2023- August 2023

Remote

#### Visiting Assistant Researcher in COMPUTER SCIENCE

Yale University

Dec 2022- Present

New Haven, CT

#### Visiting Researcher

CISPA Helmholtz Center for Information Security

Dec 2022

Saarbrücken, Germany

#### Graduate Research Assistant

Maryland Cybersecurity Center (MC2 Lab)

Aug. 2019 — Present

University of Maryland, College Park, MD

### PUBLICATIONS

D. Collins and S. Duan and J. Loss and C. Papamanthou and **G. T.** and H. Wang:

"Towards Optimal Parallel Broadcast under a Dishonest Majority"

submitted

A. Alexandru and J. Loss and C. Papamanthou and **G. T.** and B. Wagner:

"Sublinear-Round Broadcast without Trusted Setup"

submitted

**G. T.** and A. Tschidis and A. Sonnino and L. Kokoris-Kogias:

"HammerHead: Leader Reputation for Dynamic Scheduling"

New! While at MystenLabs

**Accepted!** ICDCS 2024

F. Elsheimi and **G. T.** and C. Papamanthou:

"Deterministic Byzantine Agreement with Adaptive  $O(n \cdot f)$  Communication"

While at Yale

**Accepted!** SODA 2024

A. Alexandru and J. Loss and C. Papamanthou and **G. T.**:

"Sublinear-Round Broadcast without Trusted Setup against Dishonest Majority"

manuscript

**G. T.** and J. Loss and C. Papamanthou:

"Gossiping For Communication-Efficient Broadcast"

**Accepted!** CRYPTO 2022

### HONORS AND AWARDS

#### STUDENT TRAVEL GRANT (\$650)

January 2024

SIAM, SODA

#### DEAN'S FELLOWSHIP (\$15,000)

for the First Year of Ph.D.

Aug. 2019 — Jun. 2020

University of Maryland, College Park, MD

#### OUTSTANDING ACADEMIC PERFORMANCE SCHOLARSHIP (\$5,000)

June 2022

Gerondelis Foundation

#### AWARD IN MEMORY OF MICHALIS MITILINAIOS

for Top Performance in selected TCS courses

2016- 2017

AUEB, Greece

## SKILLS

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**Communication:** English (fluent speaker) , Greek (native) , Spanish (basic communication)

## VOLUNTARY ACTIVITIES AND SERVICE TO THE COMMUNITY

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External Subreviewer for JoC'24, FINANCIAL CRYPTO'24, AFT'23, CCS'23, PKC'23, FINANCIAL CRYPTO'23, CCS'22, EUROCRYPT'21

## REFERENCES

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Associate Professor **Charalampos (Babis) Papamanthou** (at Yale), (Ph.D Advisor): charalampos.papamanthou@yale.edu  
Assistant Professor **Julian Loss** (at CISP), (Research Collaborator): lossjulian@gmail.com  
Assistant Professor **Lefteris Kokoris-Kogias** (at IST Austria, Mysten Labs), (Internship Advisor): lefteris@mystenlabs.com