

# GEORGIOS TSIMOS

Personal Website

e-mail: *tsimosyiorgos at gmail dot com*, *tsimos at umd dot edu*

## EDUCATION

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<u>AUG 2019- PRESENT</u> Current GPA: 3.75/4.0	PhD Student in ELECTRICAL ENGINEERING at UNIVERSITY OF MARYLAND, COLLEGE PARK, USA Advisor: Profeessor CHARALAMPOS PAPAMANTHOU (at Yale)
<u>OCT 2018- JULY 2019</u> GPA: 9.44/10.0	Master's of Science in COMPUTER SCIENCE at ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece
<u>OCT 2014 - SEPT 2018</u> GPA: 8.79/10.0 (Valedict.)	Bachelor's (Ptychion) in COMPUTER SCIENCE at ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece

## RESEARCH EXPERIENCE

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AUG 2019 - PRESENT	Research Assistant of Prof. CHARALAMPOS PAPAMANTHOU at UNIVERSITY OF MARYLAND, COLLEGE PARK, USA
MAR 2017 - JUN 2019	Research Assistant of Prof. EUGENIE FOUSTOUCOS at ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece

## RESEARCH INTERESTS

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Interested in several aspects of Applied Cryptography, some of which include Consensus, Blockchains, Private Information Retrieval, Vector Commitment Schemes and more.

Experienced in Protocols for Byzantine Agreement/Authenticated Broadcast (see Publication).

Also interested in the Theory of Cryptography, Algorithms and Computational Complexity.

## Current Projects

New techiques for synchronous Broadcast (with J. Loss and C. Papamanthou)  
and Efficient Chain validation in Blockchains (with I. Miers and C. Papamanthou).

## PUBLICATIONS

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1. **G. Tsimos** and J. Loss and C. Papamanthou:  
"Gossiping For Communication-Efficient Broadcast"  
Proceedings of CRYPTO 2022, Santa Barbara CA, August 2022.

## Manuscripts

2. G. Tsimos: “A Comparative Research between the relation of various Satisfiability Problems and Complexity Classes”  
Thesis for completion of MS in Computer Science, at AUEB.

## TEACHING EXPERIENCE

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- FEB 2019 - JUN 2019 Teaching Assistant for the undergrad CS course “*Logic*” at ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece
- OCT 2018 - JAN 2019 Teaching Assistant for the undergrad CS course “*Data Structures*” at ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece

## HONORS AND AWARDS

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- AUG 2019 - JUN 2020 DEAN’S FELLOWSHIP for the First Year of Ph.D. at UNIVERSITY OF MARYLAND, COLLEGE PARK, USA
- 2016 - 2017 “AWARD IN MEMORY OF MICHALIS MITILINAIOS”  
for *especially High Performance* in the courses  
“*Automata and Complexity*”, “*Logic*” and  
“*Computability and Complexity*” during that Academic Year at  
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, Greece

## SERVICE TO THE COMMUNITY

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External/Sub-Reviewer: EUROCRYPT21

## LANGUAGES

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### Natural

English(fluent), Greek(native), Spanish(basic)

### Programming

Java, Go (sufficiently experienced) C/C++, Python (less experienced)

# SELECTED GRADUATE COURSEWORK

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	at <u>UNIVERSITY OF MARYLAND</u>	
	COMPUTATIONAL GEOMETRY	D. Mount
	SECURE DISTRIBUTED COMPUTATION	J. Katz
ADVANCED CRYPTOGRAPHY AND HOSTILE GOVERNMENTS	CRYPTOGRAPHY	I. Miers
	COMPUTER SECURITY	C. Papamanthou
	INFORMATION THEORY	T. Dumitras
RANDOM PROCESSES IN COMMUNICATIONS AND CONTROLS		B. Babadi
		P. Narayan

	at <u>ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS</u>	
	BLOCKCHAINS AND SMART CONTRACTS	N. Fotiou
	DEEP LEARNING	G. Malakasiotis
	ALGORITHMIC GAME THEORY	E. Markakis

## REFERENCES

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- **Charalampos (Babis) Papamanthou:** (Ph.D Advisor)  
Co-director of Yale Applied Cryptography Laboratory,  
Associate Professor of Computer Science  
Yale University  
51 Prospect Street, New Haven CT 06511  
email: charalampos.papamanthou@yale.edu  
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- **Eugenie Foustoucos:** (Master's Advisor, Bachelor's Thesis Advisor)  
Assistant Professor, Department of Informatics  
Athens University of Economics and Business  
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- **Julian Loss:** (Research Collaborator)  
Tenure-Track Faculty, Helmholtz Center for Information Security  
CISPA , Saarbrücken, Germany  
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