

Theodoros Michailidis

PH.D. CANDIDATE

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Education

University of California, San Diego - Department of Computer Science and Engineering

San Diego, USA

DOCTOR OF PHILOSOPHY (PH.D.) IN COMPUTER SCIENCE AND ENGINEERING - ADVISOR: [DR. JISHEN ZHAO](#)

Sep. 2019 - (Exp) Jun. 2025

GPA 4.0/4.0

University of Athens - Department of Informatics and Telecommunications

Athens, Greece

MASTER OF SCIENCE IN COMPUTING SYSTEMS

Nov. 2016 - Feb. 2019

GPA: 9.96/10 (rank: 1st)

University of Athens - Department of Informatics and Telecommunications

Athens, Greece

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sep. 2010 - Sep. 2016

GPA: 7.9/10

Experience

STABLE and NVSL labs - University of California, San Diego

San Diego, USA

GRADUATE RESEARCH ASSISTANT

Sep. 2019 - Today

- **Currently:** Building Memory Efficient KVs in the CXL Era
- Built a memory tiering solution for Serverless computing, with a primary goal of minimizing the memory operation cost
 - Bash, Golang, Linux kernel, NodeJS, Rust, Python, Firecracker
- Enabled dynamic expansion of memory capacity with Persistent Memory
 - C, C++, Python, Linux kernel

AMD Research

San Diego, USA

CO-OP RESEARCH INTERN - REMOTE

Jun. 2022 - Sep. 2022

- Worked on improving resource utilization on an experimental CXL network topology
- Bash, C++, Python, SST Simulator

Intel Corporation

San Diego, USA

SYSTEMS SOFTWARE ENGINEER INTERN - REMOTE

Jun. 2021 - Sep. 2021

- Worked on characterizing the performance of TB-scale database workloads on tiered memory systems
- C, SQL, Python

Alpha Bank

Athens, Greece

SOFTWARE ENGINEER

Mar. 2019 - Aug. 2019

- Implemented and managed ETL processes
- NET, SQL, Web services

EKT Innovative Digital Media Solutions

Athens, Greece

EMBEDDED SOFTWARE ENGINEER - REMOTE

Feb. 2016 - May 2016

- Designed and implemented embedded software for multimedia TV platforms
- C, C++, Qt

Graduate School of Design - Harvard University

Athens, Greece

WEB DEVELOPER - REMOTE

Mar. 2014 - June 2014

- Designed and developed the web tool for [Zofnass Program for Sustainable Infrastructure](#)
- JavaScript, PostgreSQL, Ruby on Rail, SQLite

Teaching

CSE 240A: Principles in Computer Architecture

University of California, San Diego

TEACHING ASSISTANT

Winter 2024

- Assisted students with questions about the course material and assignments.
- Assessed and graded student assignments.

Systems Programming

TEACHING ASSISTANT

- Assisted students with questions about the course material and assignments.
- Assessed and graded student assignments.

University of Athens, Greece

Spring 2017

Implementation of Database Management Systems

TEACHING ASSISTANT

- Assisted students with questions about the course material and assignments.
- Assessed and graded student assignments.

University of Athens, Greece

Fall 2016

Software Development for Information Systems

TEACHING ASSISTANT

- Designed a semester-long assignment that was based on the [SIGMOD 2016 programming contest](#).
- Was responsible for mentoring 21 undergrads in 3-person teams.
- Assessed students to produce final grades.

University of Athens, Greece

Fall 2016

Data Structures and Programming Techniques

TEACHING ASSISTANT

- Assisted students with questions about the course material and assignments.
- Assessed and graded student assignments.

University of Athens, Greece

Spring 2015

Introduction to Programming

LAB ASSISTANT

- Volunteered to assist 1st year students during the lab hours.
- Assisted students with questions about the course material and assignments.

University of Athens, Greece

Fall 2012, 2013, 2014

Publications

TOSS: Tiering of Serverless Snapshots for Memory-Efficient Serverless Computing

IPDPS 2025 (to appear)

THEODORE MICHAILIDIS, JUNO KIM, LINSONG GUO, STEVEN SWANSON, JISHEN ZHAO

The Hitchhiker's Guide to Programming and Optimizing CXL-Based Heterogeneous Systems

arXiv - 2024

ZIXUAN WANG, SUYASH MAHAR, LUYI LI, JANGSEON PARK, JINPYO KIM, THEODORE MICHAILIDIS, YUE PAN, TAJANA ROSING, DEAN TULLSEN, STEVEN SWANSON, KYUNG CHANG RYOO, SUNGJOO PARK, JISHEN ZHAO

Low-Latency Serverless Video Analytic Queries with Hardware Disaggregation

Under Review

PINGYI HUO, THEODORE MICHAILIDIS, YI ZHENG, PRAPTI PANIGRAHI, KIWAN MAENG, JISHEN ZHAO, VIJAYKRISHNAN NARAYANAN

PMShifter: Enabling Persistent Memory Fluidness in Linux

APSys 2022

THEODORE MICHAILIDIS, STEVEN SWANSON, JISHEN ZHAO

Characterizing and Modeling Non-Volatile Memory Systems

MICRO 2020

ZIXUAN WANG, XIAO LIU, JIAN YANG, THEODORE MICHAILIDIS, STEVEN SWANSON, JISHEN ZHAO

IEEE Micro Top Picks 2021

MEGA: Overcoming Traditional Problems with OS Huge Page Management

SYSTOR 2019

THEODORE MICHAILIDIS, ALEX DELIS, MEMA ROUSSOPOULOS

Service

Artifact Evaluation Committee Member

EuroSys '22, SOSP '23

Mentor @ [Graduate Application Mentorship Program](#)

UCSD 2022

Submissions co-chair

MICRO 2021

Ph.D Student Admissions Committee Member

UCSD '19, '21

Awards

PRISM SEED Project Funding

2023, 2024

Gerondelis Foundation Graduate Study Scholarship

2021