

Christos Zarkos

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Education

Massachusetts Institute of Technology (Cambridge, MA, USA) PhD in Electrical Engineering and Computer Science, advised by Prof. Christina Delimitrou	Sept. 2023 - May 2028 (expected) GPA(Current): 5.0/5.0
University of Crete (Heraklion, Greece) Bachelor's in Computer Science GPA: 9.62/10.0 (Valedictorian)	Sept. 2019 - June 2023
Universitat Polytecnic de Catalunya (Barcelona, Spain) Erasmus+ exchange program, studying Computer Science	Sept. 2022 - Jan. 2023

Experience

Microsoft Research Redmond Research Intern <ul style="list-style-type: none">Worked on AI-driven Hardware Design, alongside Shuotao Xu and Lei Qu	May 2024 - August 2024
University of Crete Teaching Assistant for the class CS255 Systems Programming Lab <ul style="list-style-type: none">Held recitations, weekly office hours and graded assignments, midterm and final exams	Feb. 2023 - June 2023
Barcelona Supercomputing Center Visiting Junior Researcher <ul style="list-style-type: none">Implemented part of my bachelor's thesis as a member of the CAOS group, advised by Dr. Leonidas Kosmidis	Sept. 2022 - Jan 2023

Publications

SERenaDE: Hardware Acceleration of Serialization Frameworks <i>Christos Zarkos, Nikita Lazarev, Qihang Chen, Shabnam Sheikhha, James Tsai, Andy Anderson, Bhusan Chitlur, Christina Delimitrou</i>	(under submission)
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Awards and Honors

Onassis Foundation PhD Fellowship For PhD studies at MIT	Sept. 2024 - Aug. 2027
Greek Institute of National Scholarships, Excellence Scholarship Awarded from the Greek Institute of National Scholarships for being the valedictorian of the class of 2023 for the Computer Science Department of the University of Crete	Dec. 2023
Paris Kanellakis Fellowship For the first year of PhD studies at MIT	Sept. 2023
Elisavet Karamintzou Scholarship Awarded from the University of Crete for being the valedictorian of the class of 2023 for the Computer Science Department	July 2023
Stelios Orphanoudakis Scholarship Awarded from ICS-FORTH all three possible years during my Bachelor studies in the Computer Science Department of UoC (2019-2020, 2020-2021 and 2021-2022) for being among the top3 students of the class (first all 3 years)	Sept. of 2020, 2021, and 2022

Projects

SPARROW-SV (Bachelor's thesis) Implementation of a SIMD Unit for AI Acceleration for a RISC-V Processor <ul style="list-style-type: none">Implemented a SIMD unit in SystemVerilog and integrated it into an industry proven RISC-V processor (Veer EH1 RISC-V Core by Western Digital)Operated Logical Synthesis, area and timing analysis of the design with EDA tools (DesignCompiler)	SystemVerilog, C
Ka-chow [6.5930] Hardware Architecture for Deep Learning Final Project <ul style="list-style-type: none">3-member group projectImplemented a simulation of the performance of the Lightning photonic accelerator on CiMLoop	Jupyter Notebook, Python

AlphaCompiler

CS340 Programming Languages and Compilers University project

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- 3-member group project
- Implemented a Compiler and a Virtual Machine for a javascript-like language (written in C)

Service

DATE 23 Conference, D9 track

Fall 2022

Paper Sub-reviewer

Skills

Programming Languages, Technologies & Tools : SystemVerilog, C, C++, VHDL, Python, Java, R, OpenMP, Vivado, EDA, Git, LaTeX, Linux

Languages : Greek (Native Language), English (C2), Spanish (B2)

Areas of interest

Computer Architecture, Computer Systems, Cloud Computing, Hardware/Software Codesign, FPGAs, Embedded Systems