

# Christos Zarkos

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## Education

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

## Experience

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

## Projects

<b>SPARROW-SV (Bachelor's thesis)</b> <b>Implementation of a SIMD Unit for AI Acceleration for a RISC-V Processor</b> <ul style="list-style-type: none"><li>Implemented a SIMD unit in SystemVerilog and integrated it into an industry proven RISC-V processor (Veer EH1 RISC-V Core by Western Digital)</li><li>Operated Logical Synthesis, area and timing analysis of the design with EDA tools (DesignCompiler)</li></ul>	SystemVerilog, C
<b>AlphaCompiler</b> <b>Compiler's class University project</b> <ul style="list-style-type: none"><li>3-member group project, apart from implementation, in charge of coordinating the tasks assigned to each member</li><li>Implemented a Compiler and a Virtual Machine for a javascript-like language (written in C)</li></ul>	C

## Awards and Honors

<b>Greek Institute of National Scholarships Excellence Scholarship</b> 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
<b>Paris Kanellakis Fellowship</b> For the first year of PhD studies at MIT	Sept. 2023
<b>Elisavet Karamintzou Scholarship</b> Awarded from the University of Crete for being the valedictorian of the class of 2023 for the Computer Science Department	July 2023
<b>Stelios Orphanoudakis Scholarship</b> 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

## Service

<b>DATE 23 Conference, D9 track</b> <b>Paper Sub-reviewer</b>	Fall 2022
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## 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

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