Christos Lamprakos October 5, 1994

cplamprakos@proton.me • +30.6972563661 • LinkedIn • GitHub • Athens, Greece

Education

National Technical University of Athens & KU Leuven Doctor of Philosophy	Athens, Greece & Leuven, Belgium 2019 – 2025
• "Enabling Behavior-Based Energy and Memory Optimizations i	in Native Contexts"
• Worked on introducing formal methods to dynamic memory al implementing the state of the art in <i>static</i> memory allocation (N	location, i.e., malloc et al. Ended up IP-complete).
National Technical University of Athens	Athens, Greece
Master of Engineering in Electrical & Computer Engineering	2012 - 2017
Master's thesis: Prototype for a Smart Thermostat employing I	Reinforcement Learning
General High School of Epidaurus	Lygourion, Greece
Apolytirion	2009 - 2012
• Top score (1% overall, 0.1% in Mathematics) in national univers	sity entrance exams.

Projects

idealloc: A high-performance, low-fragmentation static memory allocator written in Rust (code; paper).

Miscellaneous: Reinforcement learning for HVAC control in MATLAB. Neural network training/inference with PyTorch and TensorFlow. LLVM-backed compiler for toy language in C++. Low-overhead tracing of malloc calls in Rust. "Copycat" allocator in Rust.

Work Experience

Institute of Communication & Computer Systems	Athens, Greece
Research Associate	Sept '19 – Present
Took ownership of several deliverables for Horizon EU research projects. and engineers from all across the continent.	Collaborated with researchers
imec	Leuven, Belgium
Intern Apr '2	23 – Jul '23 & May '24 – Aug '24
Investigated performance improvements for the Compute System Architecture targeting dynamic memory allocation and Rust-based parallel discrete	itecture group's software stack, event simulation components.
Accenture	Athens, Greece
Junior Software Engineer	Sept '18 – Aug '19
Team designed, built and tested CRM enhancements for major Greek t	elco operator.
Institute of Nanoscience & Nanotechnology, NCSR Demokritos	Athens, Greece
Intern	Jul '17 – Oct '17
Studied chimera states in LIF-modeled biological neurons. Explored F STDP-like behaviors.	Iebbian learning and observed
ſechnologies	

Programming languages: Mainly working with Rust. Familiar with C, C++ and Python. **Systems:** Comfortable with the Linux programming interface. Heavy user of LLDB for debugging. **Miscellaneous:** LaTeX, Markdown for technical writing, git for version control.

Scholarships

Hellenic Foundation for Research & Innovation	Athens, Greece
PhD Grant	2022 - 2024
Independently wrote grant proposal, scored 88.94/100.	
Panayiotis Triantafyllides Foundation	Athens, Greece
Scholarship for Undergraduate Studies	2012 - 2017