

Vasilis Vrettos

EDUCATION

National Technical University of Athens

Master of Electrical and Computer Engineering

Oct 2018 – Oct 2024

Athens, Greece

- **GPA:** 8.02/10
- **Thesis:** Optimization of distributed dense matrix multiplication algorithms for optimal usage in modern GPU Clusters
- **Advisors:** Assistant Prof. Georgios Goumas (NTUA), Petros Anastasiadis, PhD.

EXTRACURRICULAR ACTIVITIES

Prom Racing

Software Engineer

Jul 2022 – Sept 2023

Athens, Greece

- Planned, oversaw and setup the heterogeneous computing system that was used for real-time autonomous driving application.
- Optimized and integrated algorithms written in C++ and Python for use in the ROS2 Framework.
- Communication and alignment with the Electronics sub-team to set electrical operation standards for system.

EXPERIENCE

Institute of Communication and Computer Systems (ICCS)

Junior Researcher

Nov 2024 – Present

Athens, Greece

Freelancer

Computer Technician

2019 – Oct 2024

Athens, Greece

- Repair and upgrade of laptop and desktop computers.
- Building and setup of IT support for small businesses (law offices, realtors, accounting offices)
- Network Infrastructure installation for homes and offices (small servers and NASs)

RESEARCH

Reproducibility of rNdN: Fast Query Compilation for NVIDIA GPUs

Vasilis Vrettos

HiPEAC 2024

Student Challenge

This project addresses the reproducibility of the original rNdN paper, a seminal work introducing a query compilation and optimizer for NVIDIA GPUs. Through replicating the original methodology used in extracting the results and conclusions of the original work, we examine the robustness of the rNdN framework and its potential implications for the broader field of GPU-accelerated query processing.

TEACHING

National Technical University of Athens

Lab Assistant

Spring 2022, Spring 2023

- **Course:** Operating Systems
- **Professors:** N.Koziris, G.Goumas

SKILLS

Programming Languages C, C++, CUDA, Python, BASH, Go

Platforms Slurm, Docker, Kubernetes, Apache Spark

Tools Git, CMake

LANGUAGES

English Proficient

Greek Native

German Elementary