

Kalliopi Christina Despotidou

📍 Athens, Greece ✉ despotidou.kalliopi@gmail.com ☎ 698 211 20 38 in Kalliopi Despotidou 🌐 Kallistina

Education

- MSc** **National and Kapodistrian University of Athens**, Network Engineering Oct 2024 – Present
- **Coursework:** Wireless Networks, Network Security, Network Analysis and Modeling, Reinforcement Learning, Software-Defined Networking
 - **Majors:**
 - Wireless Networks and Telecommunications
- BSc** **National and Kapodistrian University of Athens**, Informatics and Telecommunications Oct 2020 – Sept 2024
- **Coursework:** Artificial Intelligence, Data Mining, Digital and Stochastic Signal Processing, Parallel Systems, Information Systems Security
 - **Majors:**
 - Software Engineering
 - Wireless Communications
 - **Thesis:** Beam Management Strategies for Wireless Communications with Reconfigurable Intelligent Surfaces
 - **Supervisor:** George C. Alexandropoulos, Associate Professor NKUA
- High School** **Model High School of Agii Anargyri** Sept 2014 – June 2020
- **Extracurricular Activities:** Member of the C the Programming Club, Physics Club and Running Team
 - **Admissions:** Ranked 13th out of 408 students in the entrance exams.

Experience

- Teaching Assistant**, National and Kapodistrian University of Athens Oct 2024 – Present
- **Courses:** Introduction to Programming, Introduction to Computer Security
 - Graded assignments, conducted oral exams and supported students.
 - Merit-based scholarship covering master's tuition in exchange for teaching duties.
- Research Assistant**, NOESYS Lab, National and Kapodistrian University of Athens Sept 2024 – Present
- Collaborating with faculty and researchers on advancing key lab projects.
- Private Math Tutor** 2021–2023
- Provided one-on-one math tutoring for primary and high school students.

Volunteering

- Conference Volunteer – Registration and Speaker Support**, IEEE International Symposium on Information Theory Athens, Greece, July 2024
- Managed attendee registration and facilitated effective communication between organizers and participants, ensuring seamless event operations.

Projects

Berkeley Pacman Project

- Implementations of Project 1 and Project 2 from Berkeley's CS188 course, featuring search algorithms (DFS, BFS, A*) and multi-agent systems with Artificial Intelligence for the Pacman game.

Multi-Threaded File Server

- Multi-threaded file server for handling concurrent client requests using shared memory, semaphores and pthreads.

xv6 Operating System Project

- A solution to the Operating Systems course project, based on the XV6 operating system. Implements key concepts in operating systems, including process management and system calls, in a modern RISC-V environment.

Computational Geometry Project

- Implementation of computational geometry algorithms for the course Computational Geometry, including convex hulls, Voronoi diagrams, Delaunay triangulations, and linear programming.

Network Simulation

- Simulating a sensor network using WiFi-Mininet simulator and the Thingsboard.

LMS Adaptive Filtering

- MATLAB scripts for implementing and analyzing adaptive filtering using the Least Mean Squares (LMS) algorithm.

Linux Terminal Simulator

- Developed a Linux terminal simulator in C++, replicating core functionalities such as command execution, file manipulation, and process management.

Multi-Threaded Voting System

- Designed and implemented a multi-threaded voting system in C++, featuring a network server for vote handling, a batch client for automated testing and bash scripts for vote tallying and log processing.

Deep Reinforcement Learning with Gym

- Implemented Deep Q-Network (DQN) in PyTorch for Gym environments.
- Applied advanced techniques like Double DQN, Dueling Networks, PPO, A2C, conducted hyperparameter tuning and explored LSTM/GRU/Transformer models.

Skills

Languages: Python, C, C++, Matlab, SQL, JavaScript

Technologies: Pytorch, Hugging Face, Git, GitHub, Pandas, NumPy, SQL, Linux, Windows

Soft Skills: Team Player, Listener, Communicative, Positive, Critical Thinker, Work Enthusiast, Strong Work Ethic, Time Management

Languages: Greek (Native), English (Proficient), French (Proficient), Spanish (Intermediate)