# Kalliopi Christina Despotidou

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## 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)