Nikos Pagonas

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Education

Columbia University   Sep 2024 — Present
PhD in Computer Science   New York, NY, US
Advisor: Prof. Kostis Kaffes
GPA: 3.93/4.00

Member of DAPLab. Working on providing systems support for emerging LLM agent applications.

National Technical University of Athens (NTUA)   Oct 2018 — Jun 2024
Master of Electrical and Computer Engineering   Athens, Greece
Advisors: Prof. Nikos Vasilakis, Prof. Georgios Goumas
GPA: 9.39/10.00 (14th out of 344 students)

Thesis: *"SPLaSh: Scaling Out Shell Scripts on Serverless Platforms"*

Experience

Google   May 2025 — Present
Student Researcher   Sunnyvale, CA, US
Supervisor: Prof. Arvind Krishnamurthy

Brown University   Sep 2023 — May 2024
Student Researcher   Providence, RI, US
Advisor: Prof. Nikos Vasilakis

Contributed to PaSh, an open-source Linux Foundation project. Worked on improving the performance of shell scripts by running them on serverless infrastructure, and providing fault tolerance for distributed shell script execution.

Arrikto Inc.   Dec 2022 — Mar 2023
Software Engineering Intern   Athens, Greece
Supervisor: Vangelis Koukis

Explored how to serve PyTorch models more efficiently through KServe, a highly scalable machine learning deployment platform for Kubernetes.

Awards

Gerondelis Foundation Scholarship   2025

Columbia University Presidential Fellowship   2024

| **Publications** | **007: Agent-First Systems** |
| | *(Under Submission)* |

λeash: Scaling Out Shell Scripts with Recoverable Serverless Computing
(Under Submission)

Fractal: Fault-Tolerant Shell-Script Distribution
(Under Submission)

| **Service** | **19th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2025)** | 2025 |
| | *Artifact Evaluation Committee* | |

2025 USENIX Annual Technical Conference (ATC 2025) 2025
Artifact Evaluation Committee

17th European Workshop on Systems Security (EuroSec 2024) 2024
Web and Publication Chair

Teaching	**Columbia University**	Spring 2025
	Teaching Assistant	New York, NY, US
	Course: Agentic Systems Made Real	
	Professors: Kostis Kaffes, Eugene Wu	

Brown University Fall 2024
Teaching Assistant Providence, RI, US
Course: Systems Transforming Systems
Professor: Nikos Vasilakis

Guided students through a systems research project, including implementation, evaluation, and paper writing. Paper submitted to USENIX ATC 2025.

Brown University Spring 2024
Teaching Assistant Providence, RI, US
Course: Systems Transforming Systems
Professor: Nikos Vasilakis

Helped revamp the course by redesigning its semester-long project and implementing its autograding infrastructure from scratch.

National Technical University of Athens Spring 2022
Lab Assistant Athens, Greece
Course: Operating Systems

Professors: N. Koziris, G. Goumas

National Technical University of Athens   Spring 2020
Lab Assistant   Athens, Greece
Course: Programming Techniques
Professors: N. Papaspyrou, A. Pagourtzis, G. Stamou, G. Goumas

National Technical University of Athens   Fall 2019
Lab Assistant   Athens, Greece
Course: Introduction to Programming
Professors: N. Papaspyrou, D. Fotakis, S. Zachos

Posters   **Bibarel: Accelerating Agentic Planning Through Dynamic Parallelism and Live Migration**   Apr 2024
Data Science Day   Columbia University Data Science Institute

Bibarel: Accelerating Agentic Planning Through Dynamic Parallelism and Live Migration   Mar 2024
AI Agents for Work Workshop   Columbia Business School

Talks   **SPLaSh: Scaling Out Shell Scripts on Serverless Platforms**   Feb 2024
Sysread Seminar   Brown University

SPLaSh: Towards Serverless Shell Scripting   Oct 2023
3rd PaSh Workshop   Brown University

Volunteering   **Seed Robotics**   Oct 2022 — Jun 2023
Robotics Instructor   Athens, Greece

Guided school students through construction and programming of a series of robotics projects. Served as coordinator and leader of the school robotics team in the annual municipal festival on science, arts, and sports.

Skills   **Prog. Languages**   C, Python, Javascript, Shell, Java, Go
             Platforms   AWS, Docker, Kubernetes, Apache Kafka, Apache Spark
             Tools   Git, LaTeX

Languages   **English**   Fluent — TOEFL iBT 116/120 (C2)
                Greek   Native