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, focusing on AI systems. Working on improving scheduling for agentic workflows, accelerating application-agnostic LLM serving, and providing efficient simulation support for agentic rollouts.

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 — Aug 2025
Student Researcher Sunnyvale, CA, US
Supervisor: Prof. Arvind Krishnamurthy

Worked on improving scheduling for agentic NL2SQL workflows.

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 **A.G. Leventis Foundation Scholarship** 2025

Gerondelis Foundation Scholarship 2025

Publications	**Cortex: Workflow-Aware Resource Pooling and Scheduling for Agentic Serving** Nikos Pagonas, Yeounoh Chung, Kostis Kaffes, Arvind Krishnamurthy *1st Workshop on Systems for Agentic AI (SAA 2025)*

A System-Centric Approach is Necessary for AI Agents
(Under Submission)

λ**eash: Scaling Out Shell Scripts with Recoverable Serverless Computing**
(Under Submission)

Service	**EuroSys 2026** *Artifact Evaluation Committee*	2026

SOSP 2025 2025
Artifact Evaluation Committee

OSDI 2025 2025
Artifact Evaluation Committee

ATC 2025 2025
Artifact Evaluation Committee

EuroSec 2024 2024
Web and Publication Chair

Teaching	**Columbia University** *Teaching Assistant* Course: Networks, Crowds, and the Web Professor: Augustin Chaintreau	Fall 2025 New York, NY, US

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

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: Distributed 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

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 |