

Georgia Christofidi

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EDUCATION

PhD at IMDEA Software Institute, Universidad Politécnica de Madrid.

OCTOBER 2022 - PRESENT

Software, Systems and Computing. Thesis Title: Smart and Sustainable Cloud Resource Management with Minimal Use of Machine Intelligence. Expected Graduation Date: October, 2027. Supervisor: Thaleia-Dimitra Doudali.

National Technical University of Athens, Electrical & Computer Engineering

SEPTEMBER 2017 - SEPTEMBER 2022

Bachelor's and Integrated Master's Degree (300 ECTS). GPA: 8.38/10. Specialization: Computer Systems, Software, Biomedical Engineering.

PROFESSIONAL EXPERIENCE

Google JUNE - SEPTEMBER 2025, SEATTLE, USA.

Full-time Student Researcher in Systems Research@Google (SRG) on Improving Lifetime-Aware VM scheduling. Hosts: Yawen Wang, Martin Maas.

Telefónica JUNE - DECEMBER 2024, BARCELONA, SPAIN.

Full-time Research Internship on Distributed Systems, Edge, Carbon Efficiency.

National Observatory of Athens JANUARY - SEPTEMBER 2022.

Master's Thesis and Full-time Internship on Lunar Impact Flash Detection, under the supervision of the **European Space Agency (ESA)**.

PUBLICATIONS

Advancing Workload Management with Foundational Models: Challenges in Time Series Similarity and Interpretability. MIDAS '25 (in SIGMOD), T. Bang, S. Matusevych, Y. Tian, I. Roumpos, G. Christofidi and T. D. Doudali.

Augmenting Cloud Resource Management with the Necessary Amount of Machine Intelligence. EuroPar '24, PhD Symposium. G. Christofidi and T. D. Doudali.

Do Predictors for Resource Overcommitment Even Predict? EuroMLSys '24.. G. Christofidi and T. D. Doudali.

Is Machine Learning Necessary for Cloud Resource Usage Forecasting? In ACM SoCC'23. G. Christofidi, K. Papaioannou, and T. D. Doudali.

Toward Pattern-based Model Selection for Cloud Resource Forecasting. EuroMLSys '23. G. Christofidi, K. Papaioannou, and T. D. Doudali.

PROFESSIONAL SERVICE

Artifact Evaluation Committee Member in {ASPLOS, USENIX ATC, OSDI, EuroSys} 2024, EuroSys'23 AE Fall and MLSys 2023. **Shadow PC Member** in EuroSys'25.

FILED PATENTS

Method, Orchestrator and Computer Programs for Workload Management Across Cloud and Edge Computing Environments

G. Christofidi, J. A. Omaña Iglesias, N. Kourtellis, F. Alvarez Terribas. Telefónica Innovación Digital S.L. European Patent Office (EPO), Application No. EP25382227

SUMMER SCHOOLS

VLDB'24, Deep Learning and Computer Vision '23, AI'23

TALKS

womENcourage™ 2024 - ACM Celebration of Women in Computing.

GEC '23 – 5th Summit on Gender Equality in Computing.

Feminine Innovation: Women in Montegancedo (UPM '23 & '24).

Fireballs Workshop #03 on Fireball Databases and ML (University of Glasgow '22).

SKILLS

Python, C, C++, Java, SQL, Bash.

Other Technologies: Borg, GCE Tensorflow, AWS EKS, Scikit-learn, OpenCV, Kubernetes, Prometheus, Grafana, Jaeger.

SCHOLARSHIPS

A. G. Leventis Foundation PhD Grant. Travel Grant Awards: EuroPar'24, womENcourage'24, SoCC'23.