

EDUCATION

- **IMDEA Software Institute, Universidad Politécnica de Madrid (UPM)** 10/2022 - Present
PhD Student Madrid, Spain
 - Software, Systems and Computing. Supervisor: Thaleia Dimitra Doudali.
 - Thesis Title: Smart and Sustainable Cloud Resource Management with Minimal Use of Machine Intelligence.
 - Expected Graduation Date: October, 2027.
- **National Technical University of Athens (NTUA)** 09/2017 - 09/2022
Bachelor's and Integrated Master's Degree - Electrical and Computer Engineering (ECE) Athens, Greece
 - GPA: 8.38/10. 300 ECTS.
 - Specialization: Computer Systems, Software, Biomedical Engineering.

PUBLICATIONS

- **Aceso: Carbon-Aware and Cost-Effective Microservice Placement for the Small and Medium-Sized Enterprises.**
Georgia Christofidi, Francisco Alvarez Terribas, Ioannis Roumpos, Jesus Alberto Omana Iglesias, Nicolas Kourtellis, Thaleia Dimitra Doudali
 - <https://arxiv.org/pdf/2603.10768> (Under submission)
- **Advancing Workload Management with Foundational Models: Challenges in Time Series Similarity and Interpretability.**
Tiemo Bang, Ioannis Roumpos, Sergiy Matuselych, Georgia Christofidi, Yuanyuan Tian, and Thaleia Dimitra Doudali.
 - In Proceedings of the 1st workshop connecting academia and industry on Modern Integrated Database and AI Systems (MIDAS '25). Colocated with SIGMOD'25. Association for Computing Machinery, New York, NY, USA, 16–25.
 - <https://doi.org/10.1145/3737412.3743491>
- **Augmenting Cloud Resource Management with the Necessary Amount of Machine Intelligence**
Georgia Christofidi, Thaleia Dimitra Doudali.
 - Euro-Par 2024. Lecture Notes in Computer Science, vol 15386. Springer, Cham.
 - https://doi.org/10.1007/978-3-031-90203-1_38
- **Do Predictors for Resource Overcommitment Even Predict?**
Georgia Christofidi and Thaleia Dimitra Doudali.
 - In Proceedings of the 4th Workshop on Machine Learning and Systems (EuroMLSys '24). Colocated with EuroSys'24. Association for Computing Machinery, New York, NY, USA, 153–160.
 - <https://doi.org/10.1145/3642970.3655838>
- **Is Machine Learning Necessary for Cloud Resource Usage Forecasting?**
Georgia Christofidi, Konstantinos Papaioannou, and Thaleia Dimitra Doudali.
 - In Proceedings of the 2023 ACM Symposium on Cloud Computing (SoCC '23). Association for Computing Machinery, New York, NY, USA, 544–554.
 - <https://doi.org/10.1145/3620678.3624790>
- **Toward Pattern-based Model Selection for Cloud Resource Forecasting.**
Georgia Christofidi, Konstantinos Papaioannou, and Thaleia Dimitra Doudali.
 - In Proceedings of the 3rd Workshop on Machine Learning and Systems (EuroMLSys '23). Colocated with EuroSys'23. Association for Computing Machinery, New York, NY, USA, 115–122.
 - <https://doi.org/10.1145/3578356.3592588>

PROFESSIONAL EXPERIENCE

- **Google** 06/2025 - 09/2025
Full-time Student Researcher in Systems Research@Google (SRG) Seattle, WA, USA
 - Improving Lifetime-Aware VM scheduling.
 - Hosts: Yawen Wang, Martin Maas.
- **Telefónica Digital Innovation** 06/2024 - 12/2024
Full-time Research Intern Barcelona, Spain
 - Distributed Systems, Edge, Carbon Efficiency.
- **National Observatory of Athens** 01/2022 - 09/2022
Master's Thesis and Full-time Internship Penteli, Greece
 - Distributed Systems, Edge, Carbon Efficiency.
 - Under the supervision of the European Space Agency (ESA).

PATENTS

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

Georgia Christofidi, Jesus Alberto Omana Iglesias, Nicolas Kourtellis, Francisco Alvarez Terribas

- Applicant/Owner: Telefónica Innovación Digital S.L. European Patent Office (EPO), Application No. EP25382227.
- Date: 12 March 2025. Status: filed patent application.

SCHOLARSHIPS - AWARDS

- **Best Talk Award:** Machine Learning for Edge-Cloud Systems (ML4ECS) workshop. Colocated with HiPEAC 2025.
- **PhD Grant:** A. G. Leventis Foundation
- **Travel Grant Awards:** EuroPar'24, womENCourage'24, SoCC'23.

SUMMER SCHOOLS - TRAINING

- **Very Large Databases (VLDB) Summer School** 06/2024
Cluj - Napoca, Rumania
- **Artificial Intelligence Summer School** 07/2023
Center for Artificial Intelligence and Machine Learning (CAIML) - 2 ECTS Points Vienna, Austria
- **Deep Learning and Computer Vision Summer School** 06/2023
Machine Learning Genoa Center (MaLGa) Genoa, Italia

TALKS - PRESENTATIONS

- **20th European Conference on Computer Systems (EuroSys'25).** 04/2025
Poster and Doctoral Workshop - Maximizing Return On Investment for Sustainable Operations. Rotterdam, Netherlands
- **Machine Learning for Edge-Cloud Systems (ML4ECS) workshop. Colocated with HiPEAC 2025.** 01/2025
Oral Presentation - CaRE: Towards Carbon and Resource Efficient Orchestration at the Cloud-Edge Continuum. Barcelona, Spain
- **womENCourage™ 2024 - ACM Celebration of Women in Computing:** 06/2024
Poster Presentation. University Carlos III of Madrid (UC3M). Madrid, Spain
- **GEC '23 – 5th Summit on Gender Equality in Computing** 06/2023
Poster Presentation. Athens University of Economics and Business (AUEB). Athens, Greece
- **Feminine Innovation: Women and Girls in Montegancedo event** 02/2023 and 2024
AI Workshop for primary school students. Universidad Politécnica de Madrid (UPM). Madrid, Spain
- **Fireballs Workshop 03 on Fireball Databases and Machine Learning:** 08/2022
Open-Source Software presentation. Flash Detection Software - Neliota Project. Glasgow, UK

SERVICE

- **Artifact Evaluation Committee Member:**
 - 18th and 19th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2024 and 2025)
 - 2024 USENIX Annual Technical Conference (2024 USENIX ATC)
 - 29th Architectural Support for Programming Languages and Operating Systems (ASPLOS 2024)
 - 19th and 18th European Conference on Computer Systems (EuroSys'24 and 23 Fall AE)
 - 6th Conference on Machine Learning and Systems (MLSys 2023)
- **Shadow PC Member:** 20th European Conference on Computer Systems (EuroSys'25)
- **Student Representative at IMDEA Software Institute:** 2024-2025
- **Volunteer at Madrid is Science Event:** 2023, 2024