

FOTEINI STRATI

foteini.strati@inf.ethz.ch

www.linkedin.com/in/foteini-strati \diamond <https://github.com/fotstrt>

EDUCATION

- ETH Zurich, Switzerland** Nov. 2021 - now
PhD in Computer Science
[EASL research group](#)
Advisor: Prof. Ana Klimovic
Research Interests: Systems for Machine Learning, Cloud Computing
Thesis Topic: Increasing resource utilization and fault-tolerance for machine learning workloads
- ETH Zurich, Switzerland** Sep. 2019 - Sep. 2021
MSc in Computer Science
90 ECTS, GPA: 5.29/6.0
Thesis: [Characterising Resource Elasticity and Fault Tolerance in Distributed Machine Learning](#)
- National Technical University of Athens, ECE School, Greece** Dec. 2013 - Feb. 2019
Diploma in Electrical and Computer Engineering
300 ECTS, GPA: 9.02/10
Major in Computer Systems and Software
Thesis: [Study and design of concurrent priority queues for NUMA architectures](#)

PUBLICATIONS

- **Foteini Strati**, Xianzhe Ma, Ana Klimovic, *Orion: Interference-aware, Fine-grained GPU Sharing for ML Applications*, to appear in EuroSys 2024
- Maximilian Böther, **Foteini Strati**, Viktor Gsteiger, Ana Klimovic, [Towards A Platform and Benchmark Suite for Model Training on Dynamic Datasets](#), EuroMLSys 2023
- Joel Andre, **Foteini Strati**, Ana Klimovic, [Exploring Learning Rate Scaling Rules for Distributed ML Training on Transient Resources](#), DistributedML 2022
- **Foteini Strati**, Christina Giannoula, Dimitrios Siakavaras, Georgios Goumas, Nectarios Koziris, [An Adaptive Concurrent Priority Queue for NUMA Architectures](#), ACM International Conference on Computing Frontiers, 2019

INDUSTRY EXPERIENCE

- Microsoft Research, Redmond, US** June 2023 - September 2023
Research Intern
Mentor: Amar Phanishayee
- Developed techniques to improve performance in Generative Large Language Model serving.
- NVIDIA, Switzerland** June 2022 - September 2022
Software Engineering Intern
Mentors: Eric Hall and Ville Kallioniemi
- Implemented and analyzed the impact of resource elasticity in distributed ML training for autonomous driving workflows.
 - Improved average job scheduling time by an order of magnitude.

Huawei Zurich Research Center, Switzerland

Sep. 2020 - Feb. 2021

Cloud Architectures Research Intern

Mentors: Bill McColl and Albert-Jan Yzelman

- Fault-tolerant programming models and systems for cloud and HPC applications.

Centaur Analytics, Athens, Greece

Junior Software Engineer

Jan. 2019 - Aug. 2019

- CO_2 emission forecast in silos with time series analysis and genetic algorithms.

AWARDS

- ETH Medal 2022 for outstanding Master's thesis Feb 2022
- NTUA Thomaidio Award 2019 for paper publication in international conference June 2020

SKILLS

- **Programming Languages:** C, C++, CUDA, Python, SQL, MATLAB, Assembly (ARM, AVR, 8086, MIPS)
- **Frameworks and Libraries:** PyTorch, Ray, RocksDB, Apache Kafka, Kubernetes
- **Parallel Programming:** MPI, OpenMP
- **Other:** Git, Unix, L^AT_EX

TEACHING EXPERIENCE

ETH Zurich, Teaching Assistant

Seminar on Machine Learning Systems

2022, 2023

Cloud Computing Architecture

2022, 2023

Systems Programming and Computer Architecture

2022

ETH Zurich, Project Mentorship

Ixeia Sánchez Périz: *Towards optimal resource allocation and communication schedule for ML training in the Cloud*, (MSc Thesis)

ongoing

Paul Elvinger, Tolga Kerimoglu:

Enabling efficient ML training across datacenters, (Semester project)

ongoing

Xianzhe Ma: *Evaluating GPU sharing policies for ML workloads*, (Semester project)

2023

Xindi Zuo: [DMA for Non-Volatile Memory](#), (MSc thesis)

2023

Jingyi Zhu: *Evaluating the performance of NCCL collectives in the cloud*, (Semester project)

2022

Joel André: [Accurate, elastic large-scale distributed training over transient resources](#), (BA Thesis)

2022

National Technical University of Athens, Lab Assistant

Operating Systems

Feb. 2018 - June 2018

Introduction to Programming

Sep. 2016 - Feb. 2017

SERVICE

- OSDI '22 and ATC '22 artifact evaluation committee April 2022 - June 2022