

NIKOLAOS DIMITRIADIS

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Greece

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PROFESSIONAL EXPERIENCE

Google DeepMind

📍 Zurich, Switzerland / Remote

Student Researcher

📅 Dec 2023 – Dec 2024

- Conducted research on text-to-image generative models
- On site and full-time Dec 2023 - February 2024, remote and part-time March 2024 - Dec 2024

EDUCATION

École Polytechnique Fédérale de Lausanne

📍 Lausanne, Switzerland

PhD in Computer Science

📅 Oct 2020 – Sept 2025 (expected)

- Advisors: François Fleuret & Pascal Frossard
- Research Focus: Model Merging, Multi-Task Learning, Pareto Front Learning, Continual Learning

National Technical University of Athens

📍 Athens, Greece

BSc & MSc in Electrical and Computer Engineering

📅 Sep 2014 – Sep 2020

- Thesis: "Tropical Geometry and Applications in Machine Learning and Optimization"
- Advisor: Petros Maragos
- GPA: 9.2/10

American College of Greece

📍 Athens, Greece

Minor in Finance

📅 Sep 2018 – Jun 2020

- GPA 4.0/4.0
- Imperial College Business School summer school: SNF/ACG scholarship for abroad studies

PUBLICATIONS

- [1] Wang*, **Dimitriadis***, Favero, Ortiz-Jimenez, Fleuret, Frossard: *LiNeS: Post-training Layer Scaling Prevents Forgetting and Enhances Model Merging*. to appear at ICLR (2025) [paper link](#) [paper website](#)
- [2] **Dimitriadis**, Frossard, Fleuret: *Pareto Low-Rank Adapters: Efficient Multi-Task Learning with Preferences*. to appear at ICLR (2025) [paper link](#)
- [3] Wang*, **Dimitriadis***, Ortiz-Jimenez, Fleuret, Frossard: *Localizing Task Information for Improved Model Merging and Compression*. ICML (2024) [paper link](#) [paper website](#)
- [4] Matoba, **Dimitriadis**, Fleuret: *Benefits of Max Pooling in Neural Networks: Theoretical and Experimental Evidence*. Accepted in TMLR (2023) [paper link](#)
- [5] Yüzügüler, **Dimitriadis**, Frossard: *Flexible Channel Dimensions for Differentiable Architecture Search*. Preprint (2023) [paper link](#)
- [6] **Dimitriadis**, Frossard, Fleuret: *Pareto Manifold Learning: Tackling Multiple Tasks via Ensembles of Single-Task Models*. ICML (2023) [paper link](#)

- [7] **Dimitriadis**, Fleuret, Frossard: *SequeL: A Continual Learning Library in PyTorch and JAX*. CVPR Workshop on Continual Learning (*non-archival track*) (2023) [paper link](#) [website](#)
- [8] Yüzügüler, **Dimitriadis**, Frossard: *U-Boost NAS: Utilization-Boosted Differentiable Neural Architecture Search*. ECCV (2022) [paper link](#)
- [9] **Dimitriadis**, Maragos: *Advances in Morphological Neural Networks: Training, Pruning and Enforcing Shape Constraints*. ICASSP (2021) [paper link](#)
- [10] **Dimitriadis**, Maragos: *Advances in the training, pruning and enforcement of shape constraints of Morphological Neural Networks using Tropical Algebra*. ArXiv (2020) [paper link](#)

AWARDS

- **SNF/ACG Study Abroad Program Scholarship** 📅 Jul 2019
Awarded for summer school studies at the Imperial College Business School by Stavros Niarchos Foundation (SNF) and American College of Greece (ACG).
- **ACG Merit Scholarship & SNF Scholarship** 📅 Sep 2018 - Jun 2020
Dual scholarship for parallel studies at the American College of Greece.
- **Right to Virtuosity Distinction** 📅 Jun 2018
Awarded for extraordinary performance at the Classical Guitar Degree examinations of the National Conservatory of Greece.
- **Classical Guitar Degree** 📅 Jun 2018
Achieved after twelve years of studies at the National Conservatory of Greece.
- **"The Great Moment for Education" Eurobank EFG Scholarship** 📅 Oct 2014
Achieved the highest score at the national exams among students of "Ecole Franco-Héllénique Saint Joseph".
- **Sœur Sébastienne Scholarship** 📅 Oct 2007 - Jun 2014
Full academic scholarship for Junior High and High School at "Ecole Franco-Héllénique Saint Joseph".

TEACHING

- Courses: Deep Learning, Fundamentals of inference and learning, Probability and Statistics
- Co-advised multiple MSc theses with Swisscom and multiple MSc semester projects

SKILLS

Python Git PyTorch JAX Docker

LANGUAGES

English (fluent), French (intermediate), Greek (native)