

NIKOLAOS DIMITRIADIS

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Greece

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WORK & EDUCATION

École Polytechnique Fédérale de Lausanne

PhD in Computer Science

📅 Oct 2020 – Oct 2024 (expected)

- Advisors: François Fleuret & Pascal Frossard
- Working on Multi-Task and Continual Learning, interested in task relationships, loss landscape mode connectivity and understanding catastrophic forgetting
- Collaborating with Swisscom on Multi-Task Learning, Churn Prediction and advising multiple MSc theses

National Technical University of Athens

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 (top <5%)

American College of Greece

Minor in Finance

📅 Sep 2018 – Jun 2020

PUBLICATIONS

- [1] Matoba, **Dimitriadis**, Fleuret: *Benefits of Max Pooling in Neural Networks: Theoretical and Experimental Evidence*. Accepted in TMLR (2023) [paper link](#)
- [2] Yüzügüler, **Dimitriadis**, Frossard: *Flexible Channel Dimensions for Differentiable Architecture Search*. Under review (2023) [paper link](#)
- [3] **Dimitriadis**, Frossard, Fleuret: *Pareto Manifold Learning: Tackling Multiple Tasks via Ensembles of Single-Task Models*. ICML (2023) [paper link](#)
- [4] **Dimitriadis**, Fleuret, Frossard: *SequeL: A Continual Learning Library in PyTorch and JAX*. CVPR Workshop on Continual Learning (*non-archival track*) (2023) [paper link](#) [website](#)
- [5] Yüzügüler, **Dimitriadis**, Frossard: *U-Boost NAS: Utilization-Boosted Differentiable Neural Architecture Search*. ECCV (2022) [paper link](#)
- [6] **Dimitriadis**, Maragos: *Advances in Morphological Neural Networks: Training, Pruning and Enforcing Shape Constraints*. ICASSP (2021) [paper link](#)
- [7] **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".

SKILLS

Python Git PyTorch JAX Docker

TEACHING

- Deep Learning
- Fundamentals of inference and learning
- Probability and Statistics
- Co-advised multiple MSc theses with Swisscom

LANGUAGES

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

PERSONAL INTERESTS

Classical and electric guitar, chess, calisthenics, cooking, reading, traveling