

Michail Chatzianastasis

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Education

École Polytechnique

PHD IN COMPUTER SCIENCE

- Machine Learning on graph-structured data
- AutoML and Neural Architecture Search
- Advisor: Prof Michalis Vazirgiannis

Paris, France

Nov. 2021 - Present

National Technical University of Athens

MENG IN ELECTRICAL AND COMPUTER ENGINEERING (ECE)

- 5-year joint degree, 300 ECTS, GPA: 8.24/10
- Major: Computer Science
- Thesis: Generating Neural Network Architectures with Graph Variational Autoencoder. Grade:10/10

Athens, Greece

Sep. 2015 - Nov. 2020

3rd General Lyceum of Rhodes

NATIONWIDE UNIVERSITY ENTRANCE EXAMS SCORE: 19,443/20,000 (TOP 1% NATIONWIDE) .

Rhodes, Greece

Sep. 2012 - Jun. 2015

Work Experience

Data Science and Mining (DaSciM) team of École Polytechnique

RESEARCH ASSOCIATE

- Research in Graph Neural Networks for biomedical data.
- Research in new Deep Learning Architectures for graphs.
- Advisor: Prof. Michalis Vazirgiannis

Paris, France

May. 2021 - Oct. 2021

Laboratory of Algebraic and Geometric Algorithms EpΓA

MACHINE LEARNING ENGINEER

- Provide short-term wind energy predictions for wind farms using machine learning.
- Develop Deep Neural Networks for time-series prediction.
- Advisor: Prof. Ioannis Emiris

Athens, Greece

Sep. 2020 - May. 2021

Data Science and Mining (DaSciM) team of École Polytechnique

UNDERGRADUATE RESEARCHER

- Pursuing my undergraduate thesis in collaboration with DaSciM team.
- Developed a novel method for neural architecture search using operation embeddings
- Advisor: Prof. Michalis Vazirgiannis

Remote

Apr. 2020 - Nov. 2020

NCSR Democritos

MACHINE LEARNING ENGINEER

- Analyzed language samples using natural language processing techniques to automatically detect early indicators of Alzheimer's, using scikit-learn and PyTorch.
- Developed and designed an android application to show user's grammatical and lexical score in several cognitive tasks using Java.

Athens, Greece

Sep. 2019 - Jan. 2020

Google Summer Of Code

SOFTWARE ENGINEER (SUMMER INTERNSHIP)

- Developed a fully functional RESTful API that supports the whole lifecycle of a thesis, eliminating the time-consuming procedures in universities. [Repository]
- The project is currently maintained by Harokopio University.
- Advisor: Prof. Iraklis Varlamis

Remote

Apr. 2019 - Sep. 2019

Selected Publications

Weisfeiler and Leman go Hyperbolic: Learning Distance Preserving Graph Representations

Giannis Nikolentzos, Michail Chatzianastasis, Michalis Vazirgiannis

Under Review

Graph Ordering Attention Networks

Michail Chatzianastasis, Johannes Lutzeyer, George Dasoulas, Michalis Vazirgiannis

Preprint [link]

Graph-based Neural Architecture Search with Operation Embeddings

Michail Chatzianastasis, George Dasoulas, Georgios Siolas, Michalis Vazirgiannis

Published at ICCV 2021 Workshop on Neural Architectures: Past, Present and Future, 2021 [\[link\]](#)

Teaching Experience

INSEEC Business School

BIG DATA MANAGEMENT

- Designed and taught the course on Big Data Management.

Paris, France

Feb. 2022 - June. 2022

École Polytechnique

DATA SCIENCE STARTER PROGRAM

- Lab assistant in the course Big Data Course at Polytechnic Executive Education Program.

Paris, France

Nov. 2021 - Dec. 2021

Reviewing

2022 **Neural Information Processing Systems (NeurIPS) 2022, 5 papers**

2022 **International Conference on Artificial Neural Networks, 1 paper**

2022 **Computer Communications Elsevier, 1 paper**

Honors & Awards

2015-2020 **Five years Scholarship** by the Rhodes Scholarship Foundation for my performance in university.

2016 **Scholarship** by Eurobank and Greek State Scholarship Foundation for obtaining the highest grade in the prefecture, in university entrance exams.

2018 **Scholarship** by Intrasoft International for their educational program in web development

Skills

Machine Learning

PyTorch, TensorFlow Keras, Scikit-Learn

Web-Development

Node.js Express, java, Javascript, Angular, HTML5

Scientific Programming and Data Analysis

Python, C++, MATLAB, octave, NumPy, matplotlib, LaTeX

Databases

MySQL, MongoDB

Languages

Greek, English, German

Extracurricular Activity

Google Hash Code 2018

GET A TOP 10 SCORE IN GREECE, BY IMPLEMENTING A ROUTING ALGORITHM FOR SELF-DRIVING CAR.

Athens, Greece

2018

Sensors Coding Hackathon 2018 by Advantage Austria and IEEE Ntua Student Branch

IMPLEMENTED A FOREST FIRE SYSTEM DETECTION BY TAKING DATA FROM FIRE SENSORS AND CAMERA AND MONITOR THEM FROM A WEB SITE. TECHNOLOGIES USED: JAVASCRIPT, NODE-RED

Athens, Greece

2018