

Michail Chatzianastasis

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Education

École Polytechnique

PHD IN COMPUTER SCIENCE

Paris, France

Nov. 2021 - Present

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

National Technical University of Athens

MENG IN ELECTRICAL AND COMPUTER ENGINEERING (ECE)

Athens, Greece

Sep. 2015 - Nov. 2020

- 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

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

Simons Foundation, Flatiron Institute

DEEP LEARNING RESEARCHER INTERNSHIP

New York, United States

June. 2022 - Present

- Research in Graph Neural Networks for biomedical data.
- Graph Neural Networks for cancer risk prediction.
- Advisor: Dr. Frank Zijun Zhang

Laboratory of Algebraic and Geometric Algorithms EpΓA

MACHINE LEARNING ENGINEER

Athens, Greece

Sep. 2020 - May. 2021

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

Data Science and Mining (DaSciM) team of École Polytechnique

UNDERGRADUATE RESEARCHER

Remote

Apr. 2020 - Nov. 2020

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

NCSR Democritos

MACHINE LEARNING ENGINEER

Athens, Greece

Sep. 2019 - Jan. 2020

- 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.

Google Summer Of Code

SOFTWARE ENGINEER (SUMMER INTERNSHIP)

Remote

Apr. 2019 - Sep. 2019

- 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

Selected Publications

Mass Enhanced Node Embeddings for Drug Repurposing

Michail Chatzianastasis, Giannis Nikolentzos, Michalis Vazirgiannis

Accepted at ICML 2022 Workshop on Computational Biology and at EETN Conference on Artificial Intelligence (SETN 2022)

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 Intrasoftware 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