

# 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 RESEARCHER

- 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

## Publications

### 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]

## Honors & Awards

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- 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

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<b>Machine Learning</b>	PyTorch, TensorFlow Keras, Scikit-Learn
<b>Web-Development</b>	Node.js Express, java, Javascript , Angular, HTML5
<b>Scientific Programming and Data Analysis</b>	Python, C++, MATLAB, octave, NumPy, matplotlib , LaTeX
<b>Databases</b>	MySQL, MongoDB
<b>Languages</b>	Greek, English, German

## Extracurricular Activity

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### 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