Michail Chatzianastasis

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Education

École Polytechnique *Paris, France*

PHD IN COMPUTER SCIENCE *Nov. 2021 - Present*

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

National Technical University of Athens *Athens, Greece*

MENG IN ELECTRICAL AND COMPUTER ENGINEERING (ECE) *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 *Rhodes, Greece*

NATIONWIDE UNIVERSITY ENTRANCE EXAMS SCORE: 19,443/20,000 (TOP 1% NATIONWIDE) . *Sep. 2012 - Jun. 2015*

Work Experience

Data Science and Mining (DaSciM) team of École Polytechnique *Paris, France*

RESEARCH ASSOCIATE *May. 2021 - Oct. 2021*

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

Laboratory of Algebraic and Geometric Algorithms ΕρΓΑ *Athens,Greece*

MACHINE LEARNING ENGINEER *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 *Remote*

UNDERGRADUATE RESEARCHER *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 *Athens, Greece*

MACHINE LEARNING ENGINEER *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 *Remote*

SOFTWARE ENGINEER (SUMMER INTERNSHIP) *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

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   *Paris, France*

Big Data Management   *Feb. 2022 - June. 2022*

• Designed and taught the course on Big Data Management.

École Polytechnique   *Paris, France*

Data Science Starter Program   *Nov. 2021 - Dec. 2021*

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

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 perfecture, 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   *Athens,Greece*

Get a top 10 score in Greece, by implementing a routing algorithm for self-driving car.   *2018*

Sensors Coding Hackathon 2018 by Advantage Austria and IEEE Ntua Student Branch   *Athens,Greece*

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   *2018*