

# MICHALIS KARATSIORIS

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## Employment

### **Codemanufaktur s.r.o.**..... *Junior Data Scientist & Software Developer*

Prague, Plzen  
(CZ)  
Erlangen (DE)  
4.2023 - today

Worked for a client in the automotive industry:

- I was part of a project for a client in the automotive industry, and my team worked mainly on adding functionality on the already existing Machine Learning models as well as refining the Python code for more efficient results. Technologies used: Python (pandas, numpy, opencv, pytest, matplotlib), SQL, Jira, Git
- I was part of four projects for a client in the automotive industry. Tasks ranged from developing software using the client's custom made libraries to create a testing framework, using behavioral driven testing, for the different communication layers between the car and backend, as well as analyzing and transforming data for the navigation modules of the main software. Technologies used: Protocol Buffers, Docker, Git, Zuul CI/CD, Java, Gatling, Python (behave, allure), C++, MQTT, HTTP, Jira, Grafana, InfluxDB, Toxiproxy.

### **Uppsala University – Department of Earth Science (Campus Gotland)**..... *Graduate Researcher and Teaching Assistant*

Visby, Uppsala  
(SE)  
2015 - 2016

- Completed one research project on the Actuator Disc concept.
- Collected and analyzed data for the competitive graduate programs in Sweden using statistical techniques and presented the results to the Academic Board of Education in the Department.
- Administration responsibilities during the registration period for the graduate program Wind Power Project Management 2015 – 2016.
- Prepared introductory notes about Mathematics and Physics (Graduate program Wind Power Project Management 2015 – 2016) for a diverse and multicultural group of graduate students.
- Held weekly lectures about Mathematics and Physics during the two first months of the same graduate program.
- Assisted in weekly computer laboratories during the third month of the program, aiming to introduce the students to the state-of-art software, Windsim.
- Prepared and graded numerous assignments in three graduate courses during the first three months of the graduate program.

### **Ethniki Asfaltistiki (Private Insurance Sector)**..... *Certified Insurance Underwriter – Class A*

Athens (GR)  
2012 - 2013

- Created contact with prospective high-profile clients.

### **Fagorama**..... *General Manager of Marketing and Sales in South Athens*

Athens (GR)  
2008 - 2010

- Created contact with prospective clients in the region of South Athens.
- Managed the creation of the advertisement catalog.
- Supervised the delivery procedure.

# Publications

*“The Actuator Disc Concept in Phoenixics”*

*N. Simisiroglou, M. Karatsioris, K. Nilsson, S. P. Breton, S. Ivanell*

Energy Procedia, Elsevier, Volume 94, 269 – 277, 2016,

<http://www.sciencedirect.com/science/article/pii/S1876610216308219>

# Education

## **Green Fox Academy**.....

Prague (CZ)  
2022 – 2023

Completed successfully the “Online Super Intensive Course” with a Specialization in Data Engineering.

During the period of the course, the student was exposed to two different programming languages – Java and Python, as well as numerous useful Data Engineering tools like Airflow, Docker, Kafka, Google Cloud Platform, dbt, and Airbyte. In the last phase of the course, the students worked on a real-life project given by the company Hiflylabs.

## **Continuing Education**.....

Online  
2012 – 2023

Independent study in subjects of personal interest such as Artificial Intelligence, Machine Learning, Quantum Computing, Physics, Mathematics, Programming, Finance, Game Theory, Cryptanalysis & Ethical Hacking from books and online courses from the well-known platforms edX and Coursera.

## **Uppsala University**.....

Visby (SE)  
2014 – 2015

*Master of Science* in Wind Power Project Management

GPA: 4.0/5.0

Thesis: *Actuator Disc. Theory and Application*

## **University of Crete**.....

Heraklion (GR)  
2002 – 2008

*Bachelor of Science* in Physics, GPA: 7.41/10.00

# Scholarships & Awards

Foundation in Research and Technology MSc Full Scholarship

2008 – 2010

# Technical Skills

**Programming** Python, Java, HTML5, CSS4, JavaScript, ReactJS, Tailwind CSS, SQL (MySQL, MSSQL, BigQuery), NoSQL (MongoDB), InfluxDB, Protocol Buffers, Toxiproxy, Grafana, Gatling

**OS & Software** Linux, Windows, MacOS, Google Cloud Platform, dbt, Kafka, Airflow, Airbyte, Flask, Django, Git, Docker, HiveMQ, Mosquitto, Zuul CI/CD.

# Scientific Seminars

***The Theory of Relativity and Einstein's Dream.....*** 2006  
Department of Physics, University of Crete

The Physics Department of the University of Crete held a series of successful seminars on popular science under the title “Topics in Modern Physics” aimed at high school students, teachers, and undergraduate students before the National University Entrance Examinations period. In this talk, the audience was exposed to the idea of Unification – one of Einstein’s unfulfilled dreams – by presenting fundamental topics in Physics such as Special Relativity, Quantum Physics, Standard Model Physics, and Cosmology ending with important, at the time, fundamental research questions. The purpose of the talks was to present in a simplified manner the beauty and elegance of the modern topics in Physics that were introduced throughout the 20<sup>th</sup> century. Every year selected undergraduate students presented talks based on their performance in their studies. One more talk was presented the same year about experimental physics on the topic of Lasers.

# Scientific Summer Schools Attended

- *“Theoretical High Energy Physics and Cosmology”.....* 2008  
Paphos, Cyprus
- *“Italo-Hellenic School of Physics 2006. The Physics of LHC: Theoretical tools and Experimental challenges.”.....* 2006  
University of Lecce, Italy

# Military Service

**Presidential Guard** 2011 – 2012

- In charge of a squad of 16 Presidential Guards in the second part of the service.
- Head Instructor of the Presidential Selection Academy during the last month.
- Discharged with High Honors.