Konstantinos Kalaitzidis

📍 **Stockholm, Sweden**

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○ GitHub ☐   🎓 Scholar ☐

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Professional Summary ▬

Karolinska Institutet graduate with expertise in Machine Learning for biohealth applications. A collaborative professional leveraging advances in ML/DL to drive life sciences innovation, with experience across Sweden, Ireland, Greece, and the US.

Education ▬

Karolinska Institutet *Joint Programme with Stockholm University*   `08/2021 - 06/2023`

MMSc & MSc in Health Informatics   120 ECTS   Stockholm (Solna), Sweden

For syllabus, visit the programme website ☐ | To access Thesis, visit this link ☐

Thesis   "Direct Behavior Prediction From Miniscope Calcium Imaging Using Convolutional Neural Networks"

30 ECTS | Grade: 36/40 | Supervisor: Professor Konstantinos Meletis

Activities   Pfizer Skillbridge Case Competition Final, Elected Class Representative, TEDxKI Consultant

Key Courses   Single-cell and spatial transcriptomic data analysis, Genome Medicine, Data Science for Health Informatics

University College Dublin (UCD) *School of Computer Science*   `08/2018 - 03/2019`

Exchange Studies (Erasmus) in Data Science   30 ECTS   Dublin, Ireland

Key Courses: Databases and Information Systems I, Data Mining, Designing and Developing Mobile Apps with Android

University of Thessaly (UTH) *Department of Digital Systems*   `09/2016- 07/2021`

BASc in Computer Science and Engineering   240 ECTS   Larissa, Greece

Track: Software Engineering | For syllabus, visit the programme website ☐ | To access Thesis, visit this link ☐

Thesis   "Perspectives & Use Cases of Quantum Computing" 30 ECTS | Grade: 10/10 | Supervisor: Dr. Ilias Savvas.

Key Courses   Artificial Intelligence, Pattern Recognition, Machine Learning, Distributed and parallel programming, Data warehousing and Data Mining

Work Experience ▬

Mountain Raider & IT Specialist *Greek Army Special Forces*   `09/2023 - 06/2024`

Mandatory Service for all Greek men   Greece & Cyprus

Responsibilities

- Led IT administration tasks, including infrastructure optimization and automation of manual processes.
- Participated in national and joint allied exercises (NATO) by establishing critical network and IT infrastructure for mobile operation centres that monitored mission developments.
- Completed rigorous military training, earning the "Green Beret" distinction in a program with a 70% drop-out rate. Specialised in mountain warfare operations.

Tech Stack   Windows Server (ADDS, ADUC, RDS, GPMC, DNS Manager), FIleZilla, Traceroute

ML Research Intern *Dept. of Neuroscience, Karolinska Institutet*

02/2022 - 07/2023

Research & Master Thesis student

Stockholm (Solna), Sweden

Responsibilities

- Developed the Behaviour Prediction Neural Network (BPNN), a deep learning toolkit, to interpret animal behaviour during cognitive experiments
- Implemented and evaluated neural data analysis pipelines enhancing laboratory efficiency in post-experiment analysis by 35%.
- Awarded the 2022 Karolinska Institutet Foundation Scholarship for research contributions while a master's student.

Tech Stack   TensorFlow/Keras, Scikit-learn, Pandas, Python, R, Git

Data Intern *Kry International AB*

06/2022 - 08/2022

Kry Summer Internship Programme

Stockholm, Sweden

Responsibilities

- Admission rate < 5%
- Developed a user-friendly frontend for patient questionnaires, streamlining patient data collection for doctors.
- Collaborated within a cross-functional, agile team, contributing to project sprints and milestone tracking.

Tech Stack   React, Java, AWS, Docker, Node.js, Git, Jira

Data & Content Specialist *L'Oréal*

05/2021 - 08/2021

Contactor via Bewise

Athens, Greece

Responsibilities

- Managing and updating the company's suppliers database
- Adapting the purchasing and ordering platform according to company international standards.

IT Intern *Consulate General of Greece in New York*

11/2020 - 05/2021

Internship Programme

New York City, United States

Responsibilities

- Automated operational processes by implementing a digital tool that recognizes, organizes, and archives thousands of outgoing and incoming passport information leading to an overall productivity and performance increase of the Passports Department by 50%.

Curator *TEDxUTHLarissa*

09/2019 - 09/2020

Lead Organizer & Licensee

Larissa, Greece

Responsibilities

- Led the organization and execution of the university's largest annual event, involving over 100 volunteers, 12 high-profile speakers, 100+ attendees, and support from 50+ sponsors and collaborators.
- Coordinated Directors responsible for handling different aspects of the event, such as finance, legal, marketing, experience, production and speaker relations. Oversaw all aspects of event planning and execution, including setting timelines and ensuring deadlines are met. Constant conflict-solving.

Competencies

Languages: Python (TensorFlow/Keras, Scikit-learn), JavaScript (React), R, C/C++

Data Science & Analysis: Statistical analysis (Pandas, NumPy, R), Data visualization (Matplotlib, Seaborn)

Tools & Frameworks: Linux, VS Code, Git, JupyterLab

Software Development: Agile methodology (Scrum), Jira

Behavioural Competencies Leadership, Initiative, Adaptability, Ownership, Teamwork, Problem-solving

Honors & Awards

- Nova Member - an invitation-only network of the top 3% of professionals   Autumn 2022
- Karolinska Institutet Foundation Scholarship   Autumn 2022
- City of New York - Mayoral Service Recognition Program   Spring 2021
- Erasmus for Young Entrepreneurs grant to work in Las Palmas de Gran Canaria   Autumn 2019
- Third at the Greek National Racewalking Championship, 20KM Young Men   Spring 2017 & 2018

Hobbies & Volunteering

- Emergency Responder volunteer at the Hellenic Rescue Team of Attica.
- Long-distance running, skiing, hiking