

# elena aloupogianni

Data/ML Engineer

## contact

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[foxelas.github.io](https://foxelas.github.io)

## online cv

[foxelas.github.io/cv](https://foxelas.github.io/cv)

## publications

[foxelas.github.io/publications](https://foxelas.github.io/publications)

## interests

machine learning  
data analysis  
biomedical optics  
image processing  
high-dimensional data  
pattern recognition  
statistical analysis  
predictive modelling  
data visualization

## programming

Python, C#, MATLAB  
R, MS VBA, Kotlin  
MS SQL, PostgreSQL  
HTML, Bash

## tools

L<sup>A</sup>T<sub>E</sub>X, Git  
PyTorch, Tensorflow  
Visual Studio  
Android Studio  
Google Rest API  
Anvil, Jekyll

## os

Windows  
Ubuntu Linux

## societies

Engineering in  
Medicine and Biology  
Society (IEEE EMBS)  
(ex-member)  
Japanese Society of  
Medical Imaging  
Technology (JAMIT)  
(ex-member)

## education

- 2019-2022 **Ph.D. (GPA 3.90/4.50)** Tokyo Institute of Science and Technology, Japan  
in Human-Centered Science and Biomedical Engineering,  
Department of Information and Communications Engineering  
Thesis: "Hyperspectral Imaging and Analysis for the Diagnosis of Pigmented  
Skin Lesions during Gross Pathology"  
Supervisor: Associate Professor Takashi Obi (Obi Laboratory)  
Funding: Japanese Government ([Monbukagakusho](#): [MEXT](#)) Scholarship
- 2017-2019 **M.Eng. (GPA 4.16/4.50)** Tokyo Institute of Science and Technology, Japan  
in Information and Communications Engineering  
Thesis: "Skin Cancer Detection Using Multi-Spectral Macropathology Images"  
Supervisor: Associate Professor Takashi Obi (Ohyama-Obi Laboratory)  
Funding: Japanese Government ([Monbukagakusho](#): [MEXT](#)) Scholarship
- 2011-2016 **Joint B.Sc.&M.Sc. (GPA 8.26/10)** National Technical University of Athens, Greece  
in Electrical and Computer Engineering  
Specialization: Signals, Computer Systems, Electronics, Bioengineering  
Thesis: "Application of the Curvelet Transform on Ultrasound Images of the Carotid Artery"  
Supervisor: Professor Konstantina Nikita  
Funding: (Partial) Eurobank 'Mprosta' Award for top-ranking national examination score

## experience

- 2023-now **Senior Data Science Engineer** Interactive Coventry Ltd, UK  
AI-driven innovation and product development for industrial, EU, UK and SG-funded projects. Focus on generative AI, human-centered engineering, reinforcement learning, digital twin, predictive modelling, and computer vision.
- 2017-2022 **Systems Engineer** IDAY Yamazaki Johosekei, Japan  
Data analysis, modelling and support of financial product pricing and risk management. Regression testing and verification tool production. UI development and rapid prototyping for in-house web applications.
- 2020-2021 **Teaching Assistant (Contract)** Faculty of Health, Saitama Medical University, Japan  
Guidance and assistance in Undergraduate Engineering Workshops (1. Applied Engineering Experiments, 2. Electrical and Electronic Experiments) for the Faculty of Health and Medical Care.

Full list at [foxelas.github.io/cv](https://foxelas.github.io/cv).

## soft skills

problem-solving, creativity, adaptability in multicultural environments, project management, time management, teamwork, positive attitude, friendly personality, consistent performance, good at prioritizing tasks, public speaking, translation, leadership

## languages

Greek: ● ● ● ● ● Native  
English: ● ● ● ● ● Near-Native  
Japanese: ● ● ● ● ○ JLPT N2  
German: ● ● ● ○ ○ Goethe-Zertifikat B2

Updated: January 24, 2024

