

elena aloupogianni

Data/ML Engineer

contact

Eleni (Elena)
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foxelas.github.io

online cv

foxelas.github.io/cv

publications

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^AT_EX, Git, Docker
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 Im-
ages"
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 exami-
nation 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, rein-
forcement 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 devel-
opment 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.

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 25, 2024

