

elena aloupogianni

Data/ML Engineer

contact

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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
PyTorch, Tensorflow
Visual Studio
Android Studio
Google Rest API
Anvil, Jekyll

societies

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

education

2019-2022
3y

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
2y

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

2017
6m

Research student

Tokyo Institute of Science and Technology, Japan

Intensive Japanese language course and preparation for graduate studies

2011-2016
5y

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

2008-2011
3y

High-School Diploma with Honors

Geniko Lykeio Astrous, Arcadia, Greece

Scored 19.640 points in nationwide university entrance examination.
Award: Eurobank 'Mprosta' Scholarship for top-ranking score.

experience

2023-now
1y

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.

2023-now
1y

Engineering Consultant

Iris Automation, UK

Consultation for data science and computer vision. Focus on AI applications for heavy industries and manufacturing.

2017-2022
5y

Systems Engineer

Technology Dept., Yamazaki Johosekei IDAY

Data analysis, modelling and support of financial product pricing and risk management (mainly development in C#, MS SQL, R). Regression testing and verification tool production (mainly MS VBA). Worked in a variety of projects; mainly on Pricing Engines, Multifactor Models, Hull-White and Monte-Carlo Simulations. Additional projects for UI development and rapid prototyping for in-house web applications (mainly Anvil, Python).

2017-2022
5y

Student Leader (Volunteer)

Obi Laboratory, Tokyo Institute of Technology

Student leader and manager. Handled student mentoring and management, event scheduling, communication management, reporting of student progress and other general affairs in the laboratory.

2020-2021
18m

Teaching Assistant (Contract)

Faculty of Health, Saitama Medical University

Guidance and assistance in Undergraduate Engineering Workshops (1. Applied Engineering Experiments, 2. Electrical and Electronic Experiments) for the Faculty of Health and Medical Care.

2019-2020
1y

Teaching Assistant (Contract)

GSEP, Tokyo Institute of Technology

Topic introduction, group-work management and progress evaluation.

2018
2m

Research Assistant (Contract)

Obi laboratory, Tokyo Institute of Technology

Inter-university project on "Assisting skin cancer macropathological diagnosis using multi-spectral images" in collaboration with Saitama Medical University, Chiba University and Olympus Corporation.

skills

Soft

problem-solving, creativity, project management, time management, interpretation, translation, teamwork, consistent performance, good at prioritizing tasks, leadership

Comm.

public speaking, adaptability in multicultural environments, patient listener, positive attitude, friendly personality

languages

Greek: ● ● ● ● ● Native
English: ● ● ● ● ● Near-Native

Japanese: ● ● ● ● ○ JLPT N2
German: ● ● ● ○ ○ Goethe-Zertifikat B2

courses

- 2021 **The Complete 2021 Web Development Bootcamp**
organized by App Brewery
- Google Tag Manager Fundamentals**
organized by Google Analytics Academy
- 2020 **Machine Learning, Data Science and Deep Learning with Python**
organized by Sundog Education
- 2018 **Programming Boot Camp 2018 [Vue.js, Firebase]**
organized by the Academy of Global Leadership, Yamada Dojo and [Guild Works](#)

seminars

- 2021 **The 7th Japan-Russia Joint Forum for Education and Research**
hosted by Tokyo Institute of Technology (Japan) and Moscow State University (Russia)
- 2019 **The 11th workshop CTF for GIRLS: `Forensics`**
hosted by SECCON (Tokyo, Japan)
- 2017 **Stanford University's `d.school comes to tokyo tech` Design Challenge Workshop**
hosted by the Academy of Global Leadership (Tokyo, Japan)
- 2017 **1st workshop CTF for SchoolGIRLS: `web security and cryptography`**
hosted by SECCON (Tokyo, Japan)
- 2015 **The 8th convention of Electrical Engineering Students (ΣΦΗΜΜΥ)**
hosted by UPatras (Patras, Greece)
- Biomedical Technology.. When Medicine meets Technology!**
hosted by IEEE EMB Greece Chapter (Athens, Greece)
- 2013 **The 6th Convention of Electrical Engineering Students (ΣΦΗΜΜΥ), `innovation:the answer of modern engineers in modern quandaries`**
hosted by NTUA (Athens, Greece)
- 5th e-Learning Expo `Innovation in education for active citizens`**
hosted by Wide Services (Athens, Greece)
- 2011 **Application development with Windowsphone**
hosted by Microsoft (Athens, Greece)