

elena aloupogianni

information engineer

contact

Eleni (Elena)
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foxelas.github.io

full resume

foxelas.github.io/cv

publications

foxelas.github.io/publications

interests

biomedical optics
image processing
high-dimensional data
pattern recognition
artificial intelligence
statistical analysis
stock pricing

programming

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

tools

L^AT_EX, Github, Jekyll
PyTorch, Tensorflow
Anvil, Visual Studio
Android Studio
Google Rest API

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"
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"
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"
Funding: (Partial) Eurobank 'Mprosta' Award for top-ranking national examination score

experience

- 2023-now **Data Science Engineer** Interactive Coventry, UK
Data analysis and development for industrial, EU, UK and SG projects. Focus on natural language and image processing for traffic planning, pricing prediction and human-centered engineering.
- 2017-2022 **Systems Engineer** Technology Dept., Yamazaki Johosekei IDAY, 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.
- 2018 **Research Assistant (Contract)** Obi laboratory, Tokyo Institute of Technology, Japan
Research collaboration with Saitama Medical University, Chiba University and Olympus Corporation.
- Full list foxelas.github.io/cv

skills

problem-solving, creativity, adaptability in multicultural environments, leadership, time management, teamwork, positive attitude, friendly personality, consistent performance

languages

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

Updated: May 17, 2023