

elena aloupogianni

information engineer

contact

Athens 11146, Greece
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foxelas.github.io

online cv

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 SQL, MS VBA
CSS, HTML, Bash

tools

L^AT_EX, Github, Jekyll
Anaconda, Tensorflow
Anvil, Visual 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
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

2017-2022
5y

Software Developer

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 test-
ing 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 event scheduling, communication with
students, reporting of student progress and other general affairs in the labo-
ratory.

- 2021-2022
18m **Student Ambassador (Contract)** Admissions Section, Tokyo Institute of Technology
Promotional work and [blog](#) authorship for the admissions division.
- 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, adaptability in multicultural environments, project management, time management, leadership, teamwork, positive attitude, friendly personality, consistent performance

Comm.

public speaking, translation, patient listener

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)