eleni**aloupogianni**

information engineer

about

Elena, she/her
from Greece
foxelas.github.io

contact

Greater Tokyo Area,
Japan
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interests

biomedical optics
multiple dimensions
pattern recognition
model explainability
deep learning

programming

MATLAB ♥, Python, C
R, MS SQL, VBA
CSS, HTML, Bash

tools

LaTeX, Github,
Anaconda, Tensorflow

education

since 2019 **Ph.D.** Tokyo Institute of Science and Technology, Japan
Department of Information and Communications Engineering
Human-Centered Science and Biomedical Engineering Course
Obi laboratory, funded by MEXT.
Topic: Hyper-Spectral Image Analysis for Skin Cancer Detection.

2017-2019 **M.Eng. (GPA 4.16/4.50)** Tokyo Institute of Science and Technology, Japan
Department of Information and Communications Engineering
Human-Centered Science and Biomedical Engineering Course
Ohyama-Obi laboratory, funded by MEXT.
Thesis: *"Skin Cancer Detection Using Multi-Spectral Macropathology Images"*, supervised by Associate Professor Takashi Obi.

2011-2016 **Joint B.Sc. and M.Sc. (GPA 8.26/10)** National Technical University of Athens, Greece
Department of Electrical and Computer Engineering
Partially supported by Eurobank Scholarship for top-ranking entrance score
Specialized in: Signals, Computer Systems, Electronics, Bioengineering
Diploma Thesis *"Application of the Curvelet Transform on Ultrasound Images of the Carotid Artery"*, supervised by Professor Konstantina Nikita.

experience

since 2017 **Software Developer (Part-time)** IDAY Yamazaki Johosekei, Chiyoda, Japan
Data analysis, modelling and testing of financial risk management software.

2020-2021 **Teaching Assistant (Contract)** Saitama Medical University, Hidaka, Japan
Guidance and assistance of undergraduate electronics experiments.

2019 **Research Assistant (Contract)** Tokyo Institute of Technology, Ota, Japan
Research collaboration with Saitama Medical University, Chiba University and Olympus Corporation.
Full list available at foxelas.github.io/cv

publications

2019 **Peer-Reviewed Journal Paper** IIEEJ
"Binary Malignancy Classification of Skin Tissue using Reflectance and Texture Features from Macropathology Multi-Spectral Images", IIEEJ Transactions on Image Electronics and Visual Computing, Vol. 7, No. 2, Dec. 2019.

2021 **Refereed Conference Papers** IEEE EMBC, SPIE Medical Imaging
Full list available at foxelas.github.io/publications

skills

problem-solving, teamwork, organizing, communication, positive attitude, consistent performance, can handle stress

languages

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