eleni**aloupogianni**
information engineer

about
Call me Elena
Nationality: Greece

contact
Kawasaki, Japan
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outlook.com
foxelas.github.io

programming
MATLAB, Python C#,
R, SQL, VBA
CSS, HTML
Bash, Asm

tools
LaTeX, Git
KiCad, OrCad
Relux, Weka, Praat
Webots, AVR studio

os
Windows
Ubuntu Linux
Android, iOs

skills
problem-solving
teamwork, organising
communication skills
positive attitude
perseverance

interests
medical imaging
hyper-spectral analysis
color analysis, signals
pattern recognition
optics, skin analysis

education

2019-2022 **Ph.D.** — Tokyo Institute of Science and Technology, Japan
in Information and Communications Engineering
Human-Centered Science and Biomedical Engineering Course
Funded by Japanese Government (Monbukagakusho: MEXT) Scholarship
Thesis *"Hyperspectral Imaging and Analysis for the Diagnosis of Pigmented Skin Lesions during Gross Pathology"*, under the supervision of Associate Professor Takashi Obi

2017-2019 **M.Eng.** — Tokyo Institute of Science and Technology, Japan
in Information and Communications Engineering (GPA 4.16/4.50)
Funded by Japanese Government (Monbukagakusho: MEXT) Scholarship
Thesis *"Skin Cancer Detection Using Multi-Spectral Macropathology Images"*, under the supervision of Associate Professor Takashi Obi

2017-2017 **Research student** — Tokyo Institute of Science and Technology, Japan
Intensive Japanese language course and preparation for graduate studies

2011-2016 **5-Year Joint B.Sc. and M.Sc.** — National Technical University of Athens, Greece
in Electrical and Computer Engineering (Grade 8.26/10)
Supported by Eurobank Scholarship (1000€) 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; Curvelet-based Feature Extraction and their Physical Meaning"*, under the supervision of Professor Konstantina Nikita

experience

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

2020-2021 **Teaching Assistant** — Saitama Medical University, Saitama, Japan
Guidance and assistance in basic electronics experiments.

2019-2020 **Teaching Assistant** — Tokyo Institute of Technology, Tokyo, Japan
Problem identification, group-work management and progress evaluation.

2019-2019 **Research Assistant** — Tokyo Institute of Technology, Kanagawa, Japan
Inter-university project on "Assisting skin cancer macropathological diagnosis using multi-spectral image" in collaboration with Saitama Medical University, Chiba University and Olympus Corporation.

publications

Journal **Eleni Aloupogianni, Masahiro Ishikawa et al** — 2022
"Hyperspectral and multispectral image processing for gross-level tumor detection in skin lesions: a systematic review", Journal of Biomedical Optics Vol. 27, No. 6, 060901, 2022.

More **Full list available on**
https://foxelas.github.io/publications.html

languages

Greek: ● ● ● ● ● Native
English: ● ● ● ● ◑ Full working proficiency
Japanese: ● ● ● ● ○ JLPT N2
German: ● ● ● ○ ○ Goethe-Zertifikat B2