Konstantina Giouroukou

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Education

PhD Candidate in Deep Learning and Medical Imaging — **Nov 2024 – present**
School of Medicine, University of Crete — *Heraklion, Greece*
Research Interests: Deep Learning, Generative Models, Synthetic Data

M.Sc. in Biomedical Engineering — **Sep 2021 – Apr 2024**
School of Medicine, University of Crete — *Heraklion, Greece*
Grade: 9.02 (Excellent)

B.Sc. in Physics — **Sep 2013 – May 2021**
Department of Physics, University of Crete — *Heraklion, Greece*
Grade: 6.82 (Very Good)

Training & Upskilling

Data Science Summer School — **Jun 2022 – Oct 2022**
Reatcode-Workearly, IT Consulting Services — *Athens, Greece (remote)*

Projects

Master Thesis — **Dec 2022 – Dec 2023**
Postgraduate Student Intern - Foundation for Research and Technology Hellas (FORTH) — *Heraklion, Greece*
Grade: 10 (Excellent)

Thesis: "Development of a Computational Male Pelvis Phantom for the Generation of Multiseries MRI Synthetic Data in Support of Image Analytic Processes."

Thesis conducted in collaboration with **Foundation for Research and Technology Hellas (FORTH)** — Computational Bio-Medicine Laboratory (CBML), Institute of Institute of Computer Science (ICS)

Bachelor Thesis — **Sep 2020 – May 2021**
Undergraduate Student - Foundation for Research and Technology Hellas (FORTH) — *Heraklion, Greece*
Grade: 10 (Excellent)

Thesis: "Monitoring structural modifications in striated muscles of Caenorhabditis elegans samples, due to aging, via PSHG measurements."

Thesis conducted in collaboration with **Foundation for Research and Technology Hellas (FORTH)** — Non-Linear microscopy laboratory, Institute of Electronic Structure and Laser (IESL)

Scholarships

Postgraduate Scholarship — **Mar 2023 – Mar 2024**
Foundation for Research and Technology Hellas (FORTH) — *Heraklion, Greece*
Computational Bio-Medicine Laboratory (CBML)

Publications

1. V. Tsafas, **K. Giouroukou**, K. Kounakis, M. Mari, C. Fotakis, N. Tavernarakis, G. Filippidis, "Monitoring aging-associated structural alterations in Caenorhabditis elegans striated muscles via polarization-dependent second-harmonic generation measurements", Journal of Biophotonics, December 2021, Volume 14, Issue 12, e202100173. DOI: 10.1002/jbio.202100173

Professional Competencies and Technical Tools

Programming Languages: Python, Matlab, SQL
Machine Learning Frameworks: TensorFlow
Data Visualization Tools: Tableau, Power BI
Industry Skills: Research, Business & Data Analysis, Data Visualization & Preparation

Languages

Greek: ●●●● Native
English: ●●●● Proficiency

Soft Skills

Analytical Skills & Critical Thinking
Attention to detail & Accuracy
Planning & Prioritization Skills
Problem Solving
Flexible/Adaptable
Teamwork & Collaboration

Certifications

2022 Complete Python Bootcamp From Zero to Hero in Python, Udemy
Complete Tensorflow 2 and Keras Deep Learning Bootcamp, Udemy
Tableau 2022 A-Z: Hands-on Tableau Training for Data Science, Udemy
Microsoft Power BI Desktop for Business Intelligence, Udemy
Python Programming, Department of Informatics, Aristotle University of Thessaloniki

Additional Information

Volunteering:

- Participant in Youth Exchange "Bran - a museum without walls", Bran, Romania (funded by Erasmus+) — 03-2017
- Participant in Youth Exchange "Getting Temperate", Szarvasko (Eger), Hungary (funded by Erasmus+) — 06-2016

Recommendations available upon request.