

Aikaterini Dovrou

Heraklion Crete, GREECE | dovrou97@gmail.com | dovrou@ics.forth.gr /

Linkedin account: <https://www.linkedin.com/in/aikaterini-dovrou/>

Github account: <https://github.com/adovrou>

EDUCATION

2023- **PhD Candidate in Machine/Deep Learning in Medicine**
University of Crete, School of Medicine, Heraklion, Greece

Supervisors: Sofia Agelaki, Apostolos Karantanas, Kostas Marias

2020-2022 **M.Sc. in Biomedical Engineering**, Interdepartmental International Program:

- University of Crete, School of Medicine, Department of Computer Science, Department of Material Science and Technology, Heraklion, Greece
- Technical University of Crete, School of Electrical and Computer Engineering, Chania, Greece
- Foundation for Research and Technology – Hellas, Heraklion, Greece

The M.Sc. was conducted in English.

Thesis: Extraction and validation of radiotranscriptomic signatures for Non-Small Cell Lung Cancer Diagnosis

Faculty Mentor: Michalis Zervakis

Thesis Grade: 10/10

GPA: 9.31/10 “Excellent” (1st of the class)

2015-2020 **B.Sc. (Integrated Master) in Electrical and Computer Engineering**,
Technical University of Crete, School of Electrical and Computer Engineering, Chania, Greece

Thesis: Combined analysis of phenotype and genotype in lung cancer using Radiogenomics framework.

Faculty Mentor: Michalis Zervakis

Thesis Committee: Michalis Zervakis, George Karystinos, Kostas Marias

Thesis Grade: 10/10

GPA: 9.66/10 “Excellent” (1st of the class)

RESEARCH EXPERIENCE

2021- Research Fellow

Computational Biomedicine Laboratory (CBML), Institute of Computer Science (ICS), Foundation for Research and Technology-Hellas (FORTH), Heraklion, Greece

❖ EU-funded and national projects:

- ProCAncer-I
- RadioVal
- EUCAIM
- ThoRaX

2021-2022 Graduate researcher

Digital Image and Signal Processing Laboratory (Professor M. Zervakis),
Greece, Technical University of Crete

Research: Extraction and validation of radiotranscriptomic signatures for Non-Small Cell Lung Cancer Diagnosis

2019-2020 Undergraduate researcher

Digital Image and Signal Processing Laboratory (Professor M. Zervakis),
Greece, Technical University of Crete

Research: Combined analysis of phenotype and genotype in lung cancer using Radiogenomics framework.

PUBLICATIONS

2023

Dovrou, A., Nikiforaki, K., Zaridis, D., Manikis, G., Mylona, E., Tachos, N., Tsiknakis, M., Fotiadis, D. and Marias, K.: A segmentation-based method improving the performance of N4 bias field correction on T2weighted MR imaging data of the prostate, *Magnetic Resonance Imaging*, 2023, 101:1-12, doi: 10.1016/j.mri.2023.03.012, PMID: 37004467

Dovrou, A.; Bei, E.; Sfakianakis, S.; Marias, K.; Papanikolaou, N. and Zervakis, M.: Synergies of Radiomics and Transcriptomics in Lung Cancer Diagnosis: A Pilot Study, *Diagnostics*, 2023, 13(4): 738, doi: 10.3390/diagnostics13040738, PMID: 36832225

TEACHING EXPERIENCE

Laboratory Undergraduate Assistant, School of Electrical and Computer Engineering, Technical University of Crete, Chania, Greece

Course: MATH101 - Differential and Integral Calculus I – Fall 2016 and Fall 2017

Course Head: Professor Dafni Manousaki

September 2016-December 2016

September 2017-November 2017

AWARDS AND HONORS

Manassaki Scholarship for outstanding academic performance during my Master studies in the School of Medicine, University of Crete (GPA: 9.31/10)

Year 2021-2022

Scholarship and Award from the DEMO pharmaceuticals program ‘Start your journey’ to the selected students with overall GPA ≥ 7.5 and high academic achievements (GPA: 9.66/10)

Year 2020

Scholarship and Award of academic excellence to the student who completed his/her studies in the 5 year cycle of studies with the highest GPA in his/her class from the Greek State Scholarship Foundation (GPA: 9.66/10)

Years 2019-2020

Award of academic excellence to the student with the highest GPA in the commencement of 2020 from Anek Lines (GPA: 9.66/10)

Years 2019-2020

Honor of academic excellence to the student who completed his/her studies in the 5 year cycle of studies with the highest GPA in his/her class from the Technical University of Crete (GPA: 9.66/10)

Years 2019-2020

Award of excellence for the highest GPA of the academic year at Technical University of Crete (GPA: 9.50/10)

Years 2018-2019

Award of excellence for the highest GPA of the academic year at Technical University of Crete (GPA: 9.90/10)

Years 2017-2018

**Honor for the student with the second highest score of incoming student at
Electrical and Computer Engineering of Technical University of Crete
Year 2015**

PROGRAMMING SKILLS

Languages: Python, Matlab, R, Java, C, SQL

Tools: Docker, Git, Gitlab, MLflow, LaTeX

Frameworks: PyTorch, Tensorflow, Keras

Operating Systems: MS Windows, Linux

LANGUAGES

Greek: Native speaker

English: Fluent

SPORTS

Track and field athlete with distinctions in National, Balkan and European level:
800m, 1500m, 3000m, 5000m

LETTERS OF RECOMMENDATION

Available upon request.