

## Aikaterini Dovrou

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## EDUCATION

**2020-** **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. is conducted in English.

**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

## RESEARCH EXPERIENCE

**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.

❖ Programming languages:

- Matlab
- Python
- R

- ❖ Research topics:
  - Bioinformatics/ Biostatistics
  - Radiomics/ Radiogenomics
  - Statistical modeling/ Machine learning/ Pattern recognition
  - Significance analysis of Microarrays (SAM) for genomic expression data mining

## **PUBLICATIONS**

**Dovrou, A., Zervakis, M., Bei, E., Marias, K., Papanikolaou, N., Sfakianakis, S.:** Synergies of Radiomics and Transcriptomics in Lung Cancer Diagnosis, in prep.

## **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

Course description:

Complex numbers, Supremum and Infimum bounds, Sequences, One variable functions, Limits and continuity of functions, Derivatives, Geometrical interpretation of derivatives, Differential functions, Monotonic, Skewness and kurtosis, Extremalities of functions, Mean value theorem, Rule of L' Hopital, Integrals of one variable functions, Definite integrals, Fundamental theorem of calculus, Calculation of area and volume, Applications in physics, Exponential functions, Inverse functions, Hyperbolic functions, Technics of integration, Improper integrals, Series and convergence criteria, Dynamic and Taylor series.

September 2016-December 2016

September 2017-November 2017

## **AWARDS AND HONORS**

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

*Year 2020*

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

*Year 2020*

**Scholarship 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 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: 9.5/10)**

*Years 2018-2019*

**Award of excellence for the highest GPA of the academic year at Technical University of Crete (GPA: 9.9/10)**

*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 LANGUAGES**

In-depth experience in:

- Matlab
- Python
- R
- C

Conducted projects also in:

- Java
- SQL

## **LANGUAGES**

Greek: Native speaker

English:

- Lower-Certificate of Competency in English (B2), University of Michigan, USA
- Edexcel London Test of English Level 2 (C1) – Pass with Merit

## **SPORTS**

Active track and field athlete (2011-present) with distinctions in National, Balkan and European level:

- 800 m
- 1500 m
- 3000 m
- 5000 m

## **LETTERS OF RECOMMENDATION**

Available upon request.