

# CURRICULUM VITAE

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## Education

<b>University of West Attica, Athens, Greece</b> -Biomedical Engineering Department Ph.D. candidate	<b>01/2021</b>
<b>University of Aberdeen, Aberdeen, Scotland, United Kingdom</b> -Department of Biomedical Physics M.Sc. in Medical Physics	<b>08/2017</b>
<b>National and Kapodistrian University of Athens, Athens, Greece</b> -Department of Physics B.Sc. in Physics	<b>04/2015</b>

## Work Experience

<b>University of West Attica, Athens, Greece</b> -Providing auxiliary teaching work in the course "Biophysics" Department of Biomedical Sciences	<b>Fall Semester 2023-2024</b>
<b>University of West Attica, Athens, Greece</b> -Providing auxiliary teaching work in the course "Classical Physics" Department of Biomedical Engineering	<b>Fall Semester 2023-2024</b>
<b>University of West Attica, Athens, Greece</b> -Providing auxiliary teaching work in the courses "Medical Physics" and "Radiation protection-Safety and quality controls" Department of Biomedical Engineering	<b>Spring Semester 2021-2022</b>
<b>University of West Attica, Athens, Greece</b> -Providing auxiliary teaching work in the course "Radiation protection-Safety and quality controls" Department of Biomedical Engineering	<b>Spring Semester 2020-2021</b>

<b>"IASO" Radiation Oncology Center (ROC)</b> -Trainee medical physicist Radiotherapy Department	<b>09/2019-11/2019</b>
<b>"ARETAIEION" Hospital, University of Athens</b> -Trainee medical physicist Radiotherapy Department	<b>06/2018-10/2018</b>
<b>"LAIKO" General Hospital of Athens, University of Athens</b> -Trainee medical physicist Radiology Department	<b>02/2018-06/2018</b>
<b>401 Army General Hospital of Athens</b> -Trainee medical physicist Nuclear Medicine Department	<b>10/2017-02/2018</b>
<b>Hellenic Association of Medical Physicists</b> -Ordinary member as medical physicist	<b>12/2020-Today</b>
<b>Radiotherapy Department at Aberdeen Royal Infirmary (ARI), UK</b> -Working on the M.Sc. Dissertation of Medical Physics at the Radiotherapy Department	<b>04/2017-08/2017</b>
<b>Supreme Military Command of the Interior and Islands of the Hellenic Army (ΑΣΔΕΝ)</b> -Responsible for Radio Telecommunications at the Telecommunications Center	<b>03/2014-12/2014</b>
<b>Private lessons of Physics and Mathematics</b> -Professor of Physics and Mathematics for secondary and high school students	<b>2008-2013</b>

### **Publications in International Scientific Journals**

1)Stavros Tseremoglou, Christos Michail, Ioannis Valais, Konstantinos Ninos, Athanasios Bakas, Ioannis Kandarakis, George Fountos and Nektarios Kalyvas:  
"Efficiency Properties of Cerium-Doped Lanthanum Chloride (LaCl<sub>3</sub>:Ce) Single Crystal Scintillator under Radiographic X-ray Excitation". Crystals 2022, 12(5), 655. <https://doi.org/10.3390/cryst12050655>

2)Stavros Tseremoglou, Christos Michail, Ioannis Valais, Konstantinos Ninos, Athanasios Bakas, Ioannis Kandarakis, George Fountos and Nektarios Kalyvas:  
"Evaluation of Cerium-Doped Lanthanum Bromide (LaBr<sub>3</sub>:Ce) Single-Crystal Scintillator's Luminescence Properties under X-ray Radiographic Conditions". Applied Sciences 2023, 13(1), 419. <https://doi.org/10.3390/app13010419>

3)Stavros Tseremoglou, Christos Michail, Ioannis Valais, Konstantinos Ninos, Athanasios Bakas, Ioannis Kandarakis, George Fountos and Nektarios Kalyvas:  
"Luminescence Efficiency of LaCl<sub>3</sub>:Ce crystalline scintillator for different cerium concentrations. A theoretical study". Physica Medica 2022. 104. S36. [https://doi.org/10.1016/S1120-1797\(22\)03115-5](https://doi.org/10.1016/S1120-1797(22)03115-5)

4)Anastasios Dimitrakopoulos, Christos Michail, Ioannis Valais, Stavros Tseremoglou, Dionysios Linardatos, George Fountos, Ioannis Kandarakis and Nektarios Kalyvas:

"A theoretical study for the energy dependence of intrinsic conversion efficiency of  $\text{Lu}_2\text{O}_3:\text{Eu}$  and  $\text{Y}_2\text{O}_3:\text{Eu}$  scintillator materials for use in medical imaging detectors". Physica Medica 2022. 104. S55.  
[https://doi.org/10.1016/S1120-1797\(22\)03173-8](https://doi.org/10.1016/S1120-1797(22)03173-8)

5)Stavros Tseremoglou, Vasileios Ntoupis, Dionysios Linardatos, Ioannis Valais, Christos Michail, Konstantinos Ninos, Athanasios Bakas, Eleftherios Lavdas, Ioannis Kandarakis, George Fountos and Nektarios Kalyvas:

"Temperature Dependence of the Luminescence Output of  $\text{LaCl}_3:\text{Ce}$  Single Crystal Scintillator". Procedia Struct. Integr. 2023, 47, 119–124. <https://doi.org/10.1016/j.prostr.2023.07.002>

6)Dionysios Linardatos, Vasileios Ntoupis, Stavros Tseremoglou, Ioannis Valais, Konstantinos Ninos, Athanasios Bakas, Eleftherios Lavdas, Ioannis Kandarakis, Nektarios Kalyvas, George Fountos and Christos Michail:

"Light output dependence of  $\text{CeBr}_3$  hygroscopic scintillator upon temperature". Procedia Struct. Integr. 2023, 47, 80–86. <https://doi.org/10.1016/j.prostr.2023.06.043>

## **Dissertations and Presentations**

**Advances in Biomedical Sciences, Engineering and Technology conference (ABSET 2023) 06/2023**

Oral Presentation

-A theoretical study of  $\text{LaBr}_3:\text{Ce}$  crystalline scintillator thickness effect in Absolute Efficiency for radiographic X-ray tube voltage of 50 kVp

E-Poster

-A theoretical study regarding the effect of the inverse diffusion length on  $\text{YAlO}_3:\text{Ce}$  and  $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}$  scintillator materials absolute luminescence efficiency

**International Conference on Radiation Applications (RAP 2023) 05/2023**

E-Poster

- $\text{LaCl}_3:\text{Ce}$  crystalline scintillator thickness optimization for low radiographic X-ray tube voltages: A theoretical study

**University of West Attica, Biomedical Engineering Department, Athens, Greece 03/2023**

Oral Presentation

- The crystalline scintillator  $\text{LaCl}_3:\text{Ce}$  and its use in hybrid imaging systems

**27<sup>th</sup> International Conference on Fracture and Structural Integrity 02/2023**

Oral Presentations

-Temperature Dependence of the Luminescence Output of  $\text{LaCl}_3:\text{Ce}$  Single Crystal Scintillator

-Light output dependence of  $\text{CeBr}_3$  hygroscopic scintillator upon temperature

**1<sup>st</sup> Panhellenic Congress of Medical Physics** **09/2022**

E-Posters

-Luminescence Efficiency of  $\text{LaCl}_3:\text{Ce}$  crystalline scintillator for different cerium concentrations.

-A theoretical study for the energy dependence of intrinsic conversion efficiency of  $\text{Lu}_2\text{O}_3:\text{Eu}$  and  $\text{Y}_2\text{O}_2\text{S}:\text{Eu}$  scintillator materials for use in medical imaging detectors.

**15<sup>th</sup> Panhellenic Congress of Nuclear Medicine** **05/2021**

E-Poster

- Study of Lanthanum Based Scintillators for Nuclear Medicine Imaging Instrumentation

**Radiotherapy Department at Aberdeen Royal Infirmary (ARI), UK** **04/2017-08/2017**

M.Sc. Medical Physics Dissertation:

-Targeted Radiotherapy for Treating Breast and Colon Cancer in Preclinical Study

**University of Aberdeen, Department of Biomedical Physics, UK** **02/2017-03/2017**

M.Sc. Medical Physics Presentation and Mini-Project:

-Clinical applications of proton MRI spectroscopy

-Radioactive materials in consumer products. Should we be worried?

**National and Kapodistrian University of Athens, Athens, Greece** **10/2013-04/2014**

B.Sc Physics Dissertation

-Educational Experimentation with Semi-conductors

### **Educational Seminars and Conferences**

1<sup>st</sup> CNS Radiosurgery Athens Meeting, Radiosurgery for Central Nervous System (Intracranial/Spinal), Athens (Greece) **10/2023**

1<sup>st</sup> Panhellenic Congress of Natural Sciences in Health: Innovations and Perspectives, Athens (Greece) **09/2023**

Advances in Biomedical Sciences, Engineering and Technology conference (ABSET 2023), Athens (Greece) **06/2023**

27<sup>th</sup> International Conference on Fracture and Structural Integrity, Rome (Italy) **02/2023**

1<sup>st</sup> Panhellenic Congress of Medical Physics, Athens (Greece) **09/2022**

15<sup>th</sup> Panhellenic Congress of Nuclear Medicine, Patras (Greece) **05/2021**

Educational workshop in non-ionizing radiation, Patras (Greece) **02/2019**

International Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences (BIOMEPEP 2017), Athens (Greece) **10/2017**

## **Licenses and Certifications**

-Professional License in Ionizing Radiation (Radiotherapy, Nuclear Medicine, Radiology)  
Ministry of Health (MoH), Hellenic Ministry of Health. Issued Sep 2020. No Expiration Date

-Professional License in Non Ionizing Radiation (MRI, Ultrasound, Lasers)  
Ministry of Health (MoH), Hellenic Ministry of Health. Issued Jun 2018. No Expiration Date

## **Languages**

English: Full professional proficiency (Proficiency in English, University of Michigan, 3/2006.  
IELTS: overall score 7,5 out of 9. 13/2/2016)

French: Limited working proficiency (Delf 7/2003)

Greek: Native or bilingual proficiency

## **Skills and Endorsements**

-Microsoft office (Word, Excel, Powerpoint): Excellent knowledge

-Matlab: Basic knowledge

## **Social Skills and Competences**

-Communication skills

-Collaborative and team skills

-Adaptability and flexibility in a dynamic work environment

-Initiative skills

-Commitment and perseverance in achieving goals