
FLOROIU IUSTIN

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Work Experience

2019-02 - Present Undergraduate Research Assistant
University "POLITEHNICA" of Bucharest
Areas of Work: optical microscopy, bright field microscopy, scanning probe microscopy, near-field microscopy, image acquisition, biomedical engineering, biomedical imaging, molecular and cellular biology, histology, material science, biophysics

Educatie si Formare

2018 - 2022 Bachelor of Engineering
University "POLITEHNICA" of Bucharest
Faculty of Medical/Biomedical Engineering
Bachelor in Applied Engineering Sciences

Courses taken

- 1st year: Algebra and Analytical Geometry, Calculus, Physics, General Chemistry, Metallic Materials Science, Biophysics, Biochemistry, Cellular and Molecular Biology, Anatomy, Physiology, Electrotechnics, Introduction to mechanics, Immunology and Special Physiopathology, Applied Informatics - Matlab, HTML, CSS
- 2nd year: Biomechanics, Biomechatronics, Fluid Mechanics, Analogic and Digital Electronics, General Physiopathology, Biopolymeric Materials Science, Analysis of Biological Samples, Medical Robots, Biomedical Sensors, Electrosecurity and Electromagnetic Compatibility, Bioceramic Materials Science, Programmable Circuits, Computer Aided Design - AutoCAD, Pharmacology, Software for Medical Devices - Python, C/C++

2014 - 2018 High School Diploma
"Saint Sava" National College
Mathematics and Computer Science

PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

Project funded by H2020 ATTRACT's competition for breakthrough technology concepts:
Higher-harmonic Generation Microscopy Beyond the Diffraction Barrier based on Re-scan Strategies for Optical Data Acquisition (HARMOPLUS)
-Laboratory Technician

2019 - 2020 Project funded by H2020 ATTRACT's competition for breakthrough technology concepts:
A novel approach for near-field optical microscopy based on tip-enhanced fluorescence via plasmon resonance energy transfer (TEFPLASNOM)
-Laboratory Technician

LIST OF PUBLICATIONS

- 2020

1. Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning, M.J. Huttunen, R. Hristu, A. Dumitru, **I. Floroiu***, M. Costache, S.G. Stanciu, **Biomedical Optics Express** 11, 186-199 (2020)
2. HISTOBREAST, A Collection of Brightfield Microscopy Images of Haematoxylin – Eosin Stained Breast Tissue, R.M. Buga, T. Totu, A. Dumitru, M. Costache, **I. Floroiu***, N. Sladoje, S.G. Stanciu, accepted at **Scientific Data** (2020)

Skills & Hobbies

Creativity

Adaptability and new situations tackling

Problem Solving

Possesing Technical, Medical and Biological Knowledge

Meditation and Yoga

Poetry

Languages

Romanian

Native Language

English

Expert Level

Licenses & Certifications

ECDL

ECDL/ICDL Certification

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