Georgios S. Ioannidis

Curriculum Vitae

CONTACT INFORMATION

Address	Mpentevi 19 Street., P.C. 713 19, Heraklion (Crete)
Telephone(s)	Cell: +306977895688, Tell: +30 2811 392029
E-mail	grs.ioannidis@gmail.com
Nationality	Hellenic (Greek)
Date of birth	20 March 1990 (Larissa Greece)

SCHOLARSHIPS & AWARDS

August 2014 – October 2015

Post Graduate Scholarship funded by FORTH
Computational Bio-Medicine Laboratory, Institute of Computer Science, Foundation for Research and Technology –Hellas (ICS-FORTH)

August 2017 – June 2019

PhD Scholarship funded by the General Secretariat for Research and Technology (GSRT) and the Hellenic Foundation for Research and Innovation (HFRI)

Research Grant "Newer Magnetic Resonance Imaging techniques to musculoskeletal system affections". Grand awarded by Partnership Agreement 2014-2020 of the Greek Ministry Of Economy & Development and the European Union - European Structural and Investment Funds. Grant Call: EDBM 34.
Grant value: 34,300€

August 2020 – January 2021

Post-Doctoral Scholarship from the "Stavros Niarchos Foundation – FORTH Fellowship" within the project ARCHERS: Advancing Young Researchers' Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges

TEACHING EXPERIENCE

2013 -2014

Teaching Assistant for courses of Mathematics
and Applied Mathematics Department University of Crete:

- Programing Language I (Python)/Professors (Panagiotis Chatzipantelidis, Theodoros D. Katsaounis)

- Numerical solution of Ordinary Differential Equations/ Professor (Chrysoula Tsogka)

EDUCATION

June 2016 – June 2020

School of Medicine, University of Crete, Ph.D Student
Thesis Topic: "Qualitative evaluation of perfusion studies with non-ionizing (MRI) and low dose radiation (CT) protocols."
Supervisors: Hatzidakis Adam, Perisinakis Konstantinos, Marias Kostas

September 2013 - November 2015	Department of Mathematics and Applied Mathematics, University of Crete MSc in "Applied and Computational Mathematics – Scientific Computing" Thesis Topic: *Diffusion Magnetic Resonance Imaging Techniques: Applications in Brain and Human Body* Supervisors: Kampanis Nikos - Marias Kostas
September 2008 - July 2013	Department of Mathematics, University of Crete Bachelor in "Mathematics" Thesis Topic: "Applications of Information theory in image registration" (in Greek) Supervisor: Marias Kostas
June 2008	Certificate of graduation from the 1st general senior high school of Larissa

Working Experience

June 2020 – present	Post Doctoral Researcher at the Computationl Bio-Medicine Laboratory of Foundation for Reaserch and Tecnology Hellas (FORTH) Research project: "Perfusion Quantification of Breast Cancer Patients through Contrast Enhanced Ultra Sound Imaging (CEUS)"

RESEARCH INTERESTS

Medical Image Processing, Radiomics, Machine Learning
Magnetic Resonance Imaging (Diffusion, Perfusion)
Computed Tomography Imaging (Perfusion-Radiation Dose Reduction)
Numerical Methods for Quantification of Biological Processes with MRI, CT
Medical data analysis

TECHNICAL SKILLS

Operating systems: Linux Operating Systems, Windows 10, 7, 8, XP
Programming languages: C, C++, open MP, MPI, Matlab, Fortran, Python 3.5, CUDA by NVIDIA (parallel programming)
Other: Microsoft office, Latex

LANGUAGES

Greek (Native Speaker)
English (First Certificate in English)
German (First Certificate in German)

UNDERGRADUATE THESIS CO-SUPERVISION

Vasileios D Melissianos (4229): "Medical image classification through image processing and advanced computer vision techniques" @ Hellenic Mediterranean University, Department of Electrical and Computer Engineering

Manolis Markodimitrrakis (4007): "Software comparison for image analyis based on radiomics features" @ Hellenic Mediterranean University, Department of Electrical and Computer Engineering

PUBLICATIONS

Journal Articles

[1] G. S. Ioannidis *et al.*, "A correlative study between diffusion and perfusion MR imaging parameters on peripheral arterial disease data," *Magn. Reson. Imaging*, vol. 55, pp. 26–35, Jan. 2019.

[2] G. S. Ioannidis, K. Nikiforaki, and A. Karantanas, "Statistical and spatial correlation between diffusion and perfusion MR imaging parameters: A study on soft tissue sarcomas," *Phys. Medica*, vol. 65, pp. 59–66, Sep. 2019.

[3] E. Trivizakis, G. S. Ioannidis, Vasileios D Melissianos, Georgios Z Papadakis, Aristidis Tsatsakis, Demetrios A Spandidos, Kostas Marias, "A novel deep learning architecture outperforming 'off-the-shelf' transfer learning and feature-based methods in the automated assessment of mammographic breast density," *Oncol. Rep.*, Sep. 2019.

[4] K. Kalyvianaki, A. A. Panagiotopoulos, P. Malamos, E. Moustou, M. Tzardi, E. N. Stathopoulos, G. S. Ioannidis, K. Marias, G. Notas, P. A. Theodoropoulos, E. Castanas, M. Kampa "Membrane androgen receptors (OXER1, GPRC6A AND ZIP9) in prostate and breast cancer: A comparative study of their expression," *Steroids*, Jan. 2019.

[5] G. S. Ioannidis, T. G. Maris, K. Nikiforaki, A. Karantanas, and K. Marias, "Investigating the correlation of Ktrans with semi-quantitative MRI parameters towards more robust and reproducible perfusion imaging biomarkers in three cancer types," IEEE J. Biomed. Heal. Informatics, pp. 1–1, 2018.

[6] G. S. Ioannidis, K. Nikiforaki, G. Kalaitzakis, A. Karantanas, K. Marias, and T. G. Maris, "Inverse Laplace transform and multiexponential fitting analysis of T2 relaxometry data: a phantom study with aqueous and fat containing samples," Eur. Radiol. Exp., vol. 4, no. 1, p. 28, Dec. 2020, doi: 10.1186/s41747-020-00154-5.

[7] K. Nikiforaki, G. S. Ioannidis et al., "Multiexponential T2 relaxometry of benign and malignant adipocytic tumours," Eur. Radiol. Exp., vol. 4, no. 1, p. 45, Dec. 2020, doi: 10.1186/s41747-020-00175-0.

Conference papers (Abstracts, full papers)

[1] G. C. Manikis, K. Nikiforaki, G. Ioannidis, N. Papanikolaou, and K. Marias, "Addressing Intravoxel Incoherent Motion challenges through an optimized fitting framework for quantification of perfusion," in *2016 IEEE International Conference on Imaging Systems and Techniques (IST)*, 2016, pp. 487–492.

[2] K. Nikiforaki, G. Kalaitzakis, G. Ioannidis, T. G. Maris, K. Marias, and A. Karantanas, "[OA046] Visualizing sites of increased cellularity and high permeability in soft tissue sarcomas," *Phys. Medica*, vol. 52, p. 19, Aug. 2018.

[3] G. S. Ioannidis, K. Nikiforaki, and A. Karantanas, "Correlation of DWI and DCE MRI Markers for the Study of Perfusion of the Lower Limb in Patients with Peripheral Arterial Disease," in 2019 IEEE 19th International onference on Bioinformatics and Bioengineering (BIBE), 2019, no. Mis 5004349, pp. 433–438, doi: 10.1109/BIBE.2019.00084.