

Lefteris (Eleftherios) Kontopodis, PhD

CONTACT INFORMATION

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E-mail lkontopodis@gmail.com, elevkont@asfa.gr
Web [LinkedIn](#), [Google Scholar](#)

WORK EXPERIENCE

- July 2023 - Present **Postdoc Researcher at University of West Attica - UNIWA**
[Department of Biomedical Engineering](#)
Comparative study of emotion recognition using EEG and fNIRS modalities
- January 2022 - December 2022 **Research Associate at National and Kapodistrian University of Athens NKUA**
[School of Medicine](#)
MSc “Global Health – Disaster Medicine”
Incorporating Arts on the Clinical Practice
- June 2012 - May 2021 **Research Assistant at Foundation of Research and Technology of Heraklion**
[Computational Bio-Medicine Laboratory - CBML](#)
Medical Image Analysis, Quantitative Magnetic Resonance Imaging (MRI)
- October 2011- March 2012 **Internship in European Patent Office (Den Haag) (EPO)**
Patent Classification
Diagnostic Imaging using X-ray, Magnetic Resonance Imaging and Ultrasound modalities, Detecting, measuring or recording for diagnostic purposes
- November 2004 - March 2006 **Obligatory military service**
In charge of Greek Army
- October 2003 - April 2004 **Trainee Technician, [GE Medical Systems Hellas S.A.](#)**
Professional training - Part of the studies at Technological Educational Institute of Athens
Installation, Support and Maintenance of Medical Systems
Diagnostic Imaging (Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine)

CURRICULUM VITAE

TEACHING EXPERIENCE

- October 2023 - Present
Adjunct Professor
[Institute of Vocational Training of the Greek Public Employment Service – Renti](#)
School of Network Technicians and Telecommunications
“Call centres”, “Mobile Networks”, “Network Installation”
- October 2023 - Present
Adjunct Professor
[Institute of Vocational Training of the Greek Public Employment Service – Renti](#)
School of Mechatronics Technicians
“Communications and Network principles on Vehicles”
- March 2022 - July 2023
Adjunct Professor
[University of West Attica, Department of Biomedical Engineering](#)
“Pattern Recognition in Medicine and Biology”, “Computer Programming”, “Medical Electronics”, “Medical Instrumentation”

EDUCATION

- December 2018 - July 2024 (expected)
Five years Diploma in Arts, Athens School of Fine Arts
[Department of Painting](#)
Under the supervision of prof. [Zafos Xagoraris](#)
- March 2015 - July 2020
PhD in quantitative MRI Medical Imaging
University of Crete, [School of Medicine](#)
PhD Thesis: *Multi parametric analysis of quantitative indexes of multiple non-conventional MRI techniques for Multi Sclerosis and Clinical Isolated Syndrome patients*
- April 2007 - July 2011
Five years Diploma, National Technical University of Athens
[School of Electrical and Computer Engineering](#)
Specialization in Electronics and Systems
Diploma Thesis: *Applications of image segmentation algorithms to archaeological digital object representations*
- September 1999 - September 2004
BSc in Biomedical Engineering, Technological Educational Institute of Athens
Faculty of Technological Applications (now [UNIWA - BME](#))
Biomedical Technology, Biomedical Instrumentation, Medical Physics
Bachelor Thesis: *Implementation of a Voice Recognition System*
- September 1996 - June 1999
Senior High School, 1st Technical Vocational Lyceum of Heraklion, Crete
Department of Electronic Installations and Automation
Section of Electronics

RESEARCH PROJECTS

CURRICULUM VITAE

Scholarship

01/07/2012 - 31/12/2012

FORTH (internal) scholarship**Position**

01/01/2013 - 31/05/2013

Associate Researcher (FORTH)

Development of therapeutic models for prediction of tumour treatment outcome, involving pharmacokinetics, pharmacodynamics and optimal in-silico dosage

ESPA Interreg Greece-Cyprus (national), 2007-2013

Position

01/06/2013 - 31/12/2013

Associate Researcher (FORTH)

Development of services on the medical imaging analysis platform

FP7-ICT-2009.5.3, No 270089 (EU)

Position

01/06/2013 - 31/12/2013

Associate Researcher (FORTH)

Development of therapeutic models for prediction of tumour treatment outcome, involving pharmacokinetics, pharmacodynamics and optimal in-silico dosage

Computational Horizons in Cancer: Developing Meta- and Hyper-Multiscale Models and Repositories for In Silico Oncology

FP7-ICT-2011.5.2 (600841)

Position

01/01/2014 – 30/06/2015

Associate Researcher (FORTH)

Development and validation of methods for biomarker extraction from medical images on tumour patients

FP7-ICT-2011.5.2 (600841)

Position

01/07/2015 – 31/12/2015

Associate Researcher (FORTH)

Development and implementation of informatics and the supportive applications towards the services of Greek National Health Service Organisation

ΠΑΡ00290-1 (national)

Scholarship

01/01/2016 – 30/07/2017

FORTH (internal) scholarship**Scholarship**

01/08/2017 – 31/08/2018

Scholarship from the Hellenic Foundation for Research and Innovation ([H.F.R.I](#)) for the PhD dissertation

Scholarship

01/09/2018 – 31/10/2020

Scholarship from ARCHERS (“Advancing Young Researchers’ Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges”) Stavros Niarchos Foundation.

CURRICULUM VITAE

Position 01/11/2020 – 31/05/2021	Associate Researcher (MED UOC) Implementation of fMRI methods, development of parallel processing algorithms for enhancing precision tensors K.A. 10094, ΕΥΔΕ ΕΤΑΚ 2592 /18-7-2018 (national)
Position 01/01/2022 – 06/06/2022	Associate Researcher (MED EKPA) Support and supervision of 59 active university students in their thesis
Position 14/06/2022 – 13/09/2022	Associate Researcher (MED EKPA) Educational services and guidance on the educational institutes of Cambodia and Vietnam. 15901- Education Hubs For Excellence in Midwifery» (SafeMa)
Position 01/09/2022 – 31/10/2022	Associate Researcher (MED EKPA) Support and supervision of 59 active university students in their thesis
Position 01/11/2022 – 31/12/2022	Associate Researcher (MED EKPA) Design and development of educational material for health professionals and health students, towards elimination of inequalities in LGBTQ community in the health services. 18570 (national)

RESEARCH INTERESTS

- *Arts, Science Technology*
- *Brain and Mind*
- *human ↔ Machine Interaction,*
- *Knowledge Representation,*
- *Medical Imaging*

SCHOLARSHIPS

PhD funded by Hellenic Foundation for Research and Innovation ([H.F.R.I](#))

ARCHERS (“Advancing Young Researchers’ Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges”) Stavros Niarchos Foundation

PROGRAMMING – COMPUTER SKILLS

Matlab, C, Arduino, Computer Hardware

LANGUAGES

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

PERSONAL INTERESTS

Rock climbing, Mountaineering, Mountain Bike, Music

GROUP (ARTISTIC) EXHIBITIONS

1. Tehni Kathodon, Heraklion Municipality, 2017 “Ink on Paper”, Kontopodis Lefteris.
2. Platforms, ASFA Open Spaces, 2019, “The Cave”, interactive installation, Kontopodis Lefteris.
3. Chaniartoon festival, Chania, 2023, “Random Walk”, interactive installation, Kontopodis Lefteris, Roussos Tassos, Zoi Stavroula.

PUBLICATION LIST

Conferences (7)

1. Venianaki, M., Karantanas, A., de Bree, E., Maris, T, **Kontopodis, E.**, Nikiforaki, K., Salvetti, O., & Marias, K. (2018). Assessment of soft-tissue sarcomas perfusion using data-driven techniques. 2018 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI), 4-7 March 2018. (978-1-5386-2405-0 978-1-5386-2406-7), doi: 10.1109/BHI.2018.8333441 .
2. **Kontopodis, E.**, Manikis, G., Skepasianos, I., Tsagkarakis, K., Nikiforaki, K., Papadakis Z., G., Maris, Th.G., Papadaki, E., Karantanas, A., & Marias, K. (2018). DCE-MRI radiomics features for predicting breast cancer neoadjuvant therapy response. 2018 IEEE International Conference on Imaging Systems and Techniques (IST), October 2018. doi: 10.1109/IST.2018.8577128 .
3. **Kontopodis, E.**, Manikis, G., Nikiforaki, K., Venianaki, M., Marias, K., Maris, Th.G., Karantanas, A., & Papadaki, E. (2018). Incremental diagnostic information obtained via novel Dynamic Contrast Enhanced MRI framework applied on Multiple Sclerosis patients: a preliminary study. 2018 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI), 4-7 March 2018. (978-1-5386-2405-0 978-1-5386-2406-7), doi: 10.1109/BHI.2018.8333366 .
4. **Kontopodis, E.**, Karatzanis, I., Sakkalis, V., Buffa, F., & Marias, K. (2016). A DCE-MRI analysis workflow. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.
5. Venianaki, M., **Kontopodis, E.**, Nikiforaki, K., de Bree, E., Salvetti, O., & Marias, K. (2016). A model-free approach for imaging tumor hypoxia from DCE-MRI data. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.
6. Venianaki, M., **Kontopodis, E.**, Nikiforaki, K., de Bree, E., Maris, T, Karantanas, A., Salvetti, O., & Marias, K. (2016). Improving hypoxia map estimation by using model-free classification techniques in DCE-MRI images. 2016 IEEE International Conference on Imaging Systems and Techniques (IST), 4-6 Oct. (pp. 183-188). IEEE Xplore: IEEE doi: <http://dx.doi.org/10.1109/IST.2016.7738220> Date of publication: 10 Nov. 2016 .
7. Marias, K., Nikiforaki, K., Manikis, G., **Kontopodis, E.**, & Papanikolaou, N. (2016). Visualizing tumor environment with perfusion and diffusion MRI: Computational challenges. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.

Books Chapter

8. Manikis, G., **Kontopodis, E.**, Nikiforaki, K., Marias, K., & Papanikolaou, N. (2016). Imaging biomarkers model-based analysis. *Imaging Biomarkers: Development and Clinical Integration*. Springer.

Periodicals (9)

9. **Kontopodis, E.**, Papadaki, E., Trivizakis, E., Maris, T. G., Simos, P., Papadakis, G. Z..... & Marias, K. (2021). Emerging deep learning techniques using magnetic resonance imaging data applied in multiple sclerosis and clinical isolated syndrome patients. *Experimental And Therapeutic Medicine*, 22(1149).
10. **Kontopodis, E.**, Marias, K., Manikis, G., Nikiforaki, K., Venianaki, M., Maris, T., & Papadaki, E. (2020). Extended perfusion protocol for MS lesion quantification. *Open Medicine*, 15(1), 520-530.
11. Katerina Nikiforaki, Georgios C Manikis, **Eleftherios Kontopodis**, Eleni Lagoudaki, Eelco de Bree, Kostas Marias, Apostolos H Karantanas, Thomas G Maris (2019). T2, T2* and spin coupling ratio as biomarkers for the study of lipomatous tumors. *Physica Medica*, Elsevier.
12. **Kontopodis, E.**, Venianaki, M., Manikis, G., Nikiforaki, K., Salvetti, O., Papadaki, E., Papadakis, G., Karantanas, A., & Marias, K. (2019). Investigating the role of model-based and model-free imaging biomarkers as early predictors of neoadjuvant breast cancer therapy outcome. *IEEE J Biomed Health Inform*, IEEE (<https://www.ncbi.nlm.nih.gov/pubmed/30716054>), doi: 10.1109/JBHI.2019.2895459.
13. Venianaki, M., Salvetti, O., de Bree, E., Maris, Th.G., Karantanas, A., **Kontopodis, E.**, Nikiforaki, K., & Marias, K. (2018). Pattern recognition and pharmacokinetic methods on DCE-MRI data for tumor hypoxia mapping in sarcoma. *Multimedia Tools and Applications*, 77(8), 9417-9439, Springer US (1573-7721 (Online ISSN)), doi: <https://doi.org/10.1007/s11042-017-5046-6>.
14. Spanakis, M., **Kontopodis, E.**, Van Cauter, S., Sakkalis, V., & Marias, K. (2016). Assessment of DCE-MRI parameters for brain tumors through implementation of physiologically –based pharmacokinetic models approaches for Gd-DOTA. *Journal of Pharmacokinetics and Pharmacodynamics*, 19 September 2016, 43(5), 529-547, Springer US (1567-567X, 1573-8744 , <https://doi.org/10.1007/s10928-016-9493-x>), doi: 10.1007/s10928-016-9493-x.
15. Roniotis, A., Oraiopoulou, M.E., Tzamali, E., **Kontopodis, E.**, Van Cauter, S., Sakkalis, V., & Marias, K. (2015). A proposed paradigm shift in initializing cancer predictive models with DCE-MRI based PK parameters: A feasibility study. *Cancer Informatics* , 14(S4), 7-18.
16. **Kontopodis, E.**, Kanli, G., Manikis, G., Van Cauter, S., & Marias, K. (2015). Assessing Treatment Response Through Generalized Pharmacokinetic Modeling of DCE-MRI Data. , 14(4), 41-51.
17. Kalaitzakis, G., Kavroulakis, L., Boursianis, T., Veneti, S., **Kontopodis, E.**, Marias, K., Papadaki, E., Karantanas, A., & Maris, Th.G. (2014). Magnetic relaxation measurements on tissue mimicking phantoms: comparison between different fitting algorithms in MRI T2 calculations. *Physica Medica* , 30(1), 118-119.

Others

18. Manikis, G., **Kontopodis, E.**, & Marias, K. (2016). Apparatuses, methods and systems for estimating water diffusivity and microcirculation of blood using dw-mri data. May 19, 2016, Publication number: 20160139226 Filed: November 13, 2015 .