

ELEFThERIOS KONTOPODIS, PhD

CONTACT INFORMATION

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Date of birth 26 October 1981

WORK EXPERIENCE

- January 2022 - December 2022 Research Associate at National and Kapodistrian University of Athens ([NKUA](#))
School of Medicine
MSc “Global Health – Disaster Medicine”
- June 2012 – May 2021 Research Assistant at Foundation of Research and Technology of Heraklion ([FORTH](#))
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 [GE Medical Systems Hellas S.A.](#)
Trainee Technician (Professional training - Part of the studies at Technological Educational Institute, TEI)
Installation, Support and Maintenance of Medical Systems
Diagnostic Imaging (Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine)

TEACHING EXPERIENCE

- March 2022 –
Present [University of West Attica, Athens](#)
Department of Biomedical Engineering,
Adjunct Professor, “*Pattern Recognition in Medicine and Biology*”

EDUCATION

December 2018 –
present

[Athens School of Fine Arts](#)
Sculpture Department
Five years Diploma

March 2015 –
July 2020

PhD candidate
University of Crete,
[School of Medicine](#)
Title: *Multi parametric analysis of quantitative indexes of multiple non-conventional MRI techniques for Multi Sclerosis and Clinical Isolated Syndrome patients*

April 2007 –
July 2011

National Technical University of Athens
[School of Electrical and Computer Engineering](#)
Five years Diploma in Electrical and Computer Engineering
Specialization in Electronics and Systems
Thesis Topic: *Applications of image segmentation algorithms to archaeological digital object representations*

September 1999 -
September 2004

Technological Educational Institute of Athens (TEI)
Faculty of Technological Applications
[Bachelor in Biomedical Engineering](#)
Biomedical Technology, Biomedical Instrumentation, Medical Physics
Thesis Topic: *Implementation of a Voice Recognition System*

September 1996 -
June 1999

1st Technical Vocational Lyceum (Senior High School)
of Heraklion, Crete
Department of Electronic Installations and Automation
Section of Electronics

RESEARCH INTERESTS

Brain and mind investigation, human ↔ machine interaction
Medical Imaging, Medical Informatics

SCHOLARSHIP

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

LANGUAGES

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

PERSONAL INTERESTS

Climbing, Mountaineering, Mountain Bike, Music

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.2018.8333666 .
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 (7)

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 .