

CURRENT
POSITION**Assistant Professor of Radiology
- Oncological Imaging**

School of Medicine,
University of Crete

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Affiliated Researcher

Computational Biomedicine Laboratory,
Institute of Computer Science,
Foundation for Research and Technology (FORTH)

Affiliated Researcher

Department of Radiology, CLINTEC,
Karolinska Institutet(Sweden)

PROFESSIONAL
SOCIAL MEDIA
ACCOUNTS

Twitter: @Klonmich

LinkedIn: Michail Klontzas, MD, PhD

ResearchGate: Michail Klontzas

EDUCATION

University of Crete, Crete, GR

Ph.D., Artificial intelligence with the use of MRI for bone marrow imaging,
Awarded: 30 June 2023, Started: 29 May 2020

- Advisor: Apostolos Karantanas, M.D., Ph.D

Imperial College London, London, UK

Ph.D., Metabolomics in bone tissue engineering: a sensitive and robust tool for the
evaluation of osteogenic differentiation in 2D and 3D cultures,

Awarded: 1 Oct 2018, Started: 4 Oct 2014

- Advisor: Athanasios Mantalaris, Ph.D

University of Crete, Heraklion, GR

M.D., Medical Degree, Awarded: 24 Jul 2014, Started: Sept 2008

- *GPA equivalent: 85.6/100 - Upper 5%, class 2014 - Summa Cum Laude equivalent*

CLINICAL
EXPERIENCE**ESOR MSK Radiology Fellow**

September 2023 – December 2023

- King's College Hospital
Department of Radiology
Denmark Hill, London, UK
Job description: MSK Radiology fellow (GMC licensed)
Awardee of a highly competitive fellowship
by the European School of Radiology (ESOR)
Intensive hands-on fellowship on MSK diagnosis and intervention
Tutors: Dr Lisa Meacock & Dr David Elias

- PET/CT - Oncological Imaging Fellow** May 2023 – August 2023
- Karolinska University Hospital, Huddinge
Nuclear Medicine Department
Stockholm, SE
- Job description:** Training in oncological imaging with PET/CT
Tutor: Dr Antonios Tzortzakakis
- Radiology Resident** April 2020 – now
- University Hospital of Heraklion &
Department of Medical Imaging
Crete, GR
- Job description:** Full-time Radiology Resident
(Chief Resident Nov 2021 - May 2023)
- Army Physician** 15 Jul 2019 – 15 Mar 2020
- 547 Airborne Battalion &
School of Military Reserve Officers
Crete, GR
- Job description:** Full-time
military camp physician
- Honorary Foundation Year 1 Doctor** 9 Dec 2016 – 30 Nov 2018
- Northwick Park Hospital, Head & Neck Directorate
Department of Maxillofacial Surgery, HA1 3UJ, London, UK
- Job description:** Part-time (8 hours per week - unpaid)
attendance in operating theatres and outpatient clinics
- Honorary Foundation Year 1 Doctor** 23 Feb 2015 – 6 Dec 2016
- Northwick Park Hospital, Department of Orthopaedics,
HA1 3UJ, London, UK
- Job description:** Part-time (8 hours per week - unpaid)
attendance in operating theatres and outpatient clinics
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RESEARCH
EXPERIENCE

- Affiliated Researcher** Aug 2023 – now
- Radiology Section,
Department of Clinical Intervention and Technology (CLINTEC)
Karolinska Institutet
Stockholm, SE
- Collaborating Researcher** Feb 2020 – now
- Institute of Computer Science
Foundation for Research and Technology (FORTH)
Heraklion, GR
- Topic:** AI applications on musculoskeletal imaging
- Postdoctoral Fellow in Regenerative Medicine** 1 Jan 2019 – 24 June 2019
- Emory University, School of Medicine
Winship Cancer Institute
& Georgia Institute of Technology
- Job description:** Postdoctoral Fellow
on omics for stem cell therapies
- Postdoctoral Research Associate** 23 Oct 2018 – 30 Nov 2018
- Imperial College London, Department of Chemical
Engineering, SW7 2AZ, London, UK
- Job description:** Postdoctoral Fellow
on metabolomics of mesenchymal stem cells
in 2D and 3D static and dynamic cultures.

Marie Sklodowska-Curie Early Stage Researcher	Oct 2014 to Oct 2018
Department of Chemical Engineering, Imperial College London Supervisor: Athanasios Mantalaris, Ph.D.	
Research Assistant (unpaid position)	Sept 2010 to Sept 2014
Department of Medical Imaging, MRI Unit, University of Crete, University Hospital of Heraklion Supervisor: Apostolos Karantanas, M.D., Ph.D.	
Research Assistant (unpaid position)	Sept 2010 to Aug 2012
Haemopoiesis Research Laboratory, Faculty of Medicine, University of Crete Supervisor: Helen Papadaki, M.D., Ph.D.	

EDITORIAL
EXPERIENCE

Section Editor - "European Journal of Radiology"	November 2023 – now
<ul style="list-style-type: none"> • Section Editor for Radiomics 	
Scientific Editorial Board Member - "European Radiology"	Jan 2024 – now
<ul style="list-style-type: none"> • Editorial Board Member for Musculoskeletal Radiology 	
Trainee Editorial Board Member - "Radiology: Artificial Intelligence"	Jun 2022 – Jun 2024
<ul style="list-style-type: none"> • 2 years of mentored editorial training Radiology:AI, Radiological Society of North America 	
Trainee Editorial Board Member - "RadioGraphics"	Jan 2021 – Dec 2022
<ul style="list-style-type: none"> • Selected among 100 international candidates to receive 2 years of mentored editorial training RadioGraphics, Radiological Society of North America 	

MANAGERIAL-
LEADERSHIP
EXPERIENCE

- **European Society of Radiology (ESR) eHealth & Informatics Subcommittee Member** Since March 2024
- **European Society of Medical Imaging Informatics (EuSoMII) Scientific Committee Secretary**
- **European Congress of Radiology 2025 Imaging Informatics / Artificial Intelligence and Machine Learning Scientific Subcommittee Member**
- **European Society of Medical Imaging Informatics (EuSoMII) Scientific Committee Secretary**
- **AI-POD Stakeholder group member**
- **ESR Research Committee Member** Sept 2023 - now
- **Future Research Task Force - European Institute of Biomedical Imaging Research (EIBIR)** March 2024 - now
- **European Congress of Radiology 2025 Imaging Informatics Subcommittee Member**
- **European Congress of Radiology 2024 Open Forum Co-ordinator**
- **European Congress of Radiology 2023 Open Forum Co-ordinator**
- **Radiology Trainee Forum (RTF) Board Member** - European Society of Radiology (current)

- **Chief Resident** Nov 2021 - May 2023 (responsible for rotas, educational activities, rotations, day-to-day resident mentoring) (current)
 - **EuSoMII Board Member** (2022 to 2023)
 - **EuSoMII delegate to the Radiology Trainee Forum** of the European Society of Radiology (2020 to 2023)
 - **Member of the Young Club Committee of EuSoMII** responsible for the Education Task Force
 - Assistant of the organising committee - Intra-university Congress of Radiology 2013 (*Heraklion, GR*)
 - Member of the organising committee - Symposium on Multi-omic modelling (*Athens, GR, Sept 2018*).
 - Elected member of the Ph.D. student committee - E.U. Horizon 2020 I.T.N. Sy.M.Bio.Sys.
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PUBLICATIONS IN Total: 82
 PEER-REVIEWED First - second author: 60
 JOURNALS Corresponding author: 12

1. Tejani A.*, **Klontzas M.E.***, Gatti A.A.*, Mongan J., Moy L., Kahn C.E. Jr, & CLAIM 2024 Update Panel, “Checklist for Artificial Intelligence in Medical Imaging (CLAIM): 2024 Update”, *Radiology: Artif Intell*, 6:e240300, 2024. ***co-first authorship**
2. **Klontzas M.E.** ”Radiomics feature reproducibility: the elephant in the room”. *Eur J Radiol*, 175, 111430, 2024
3. Kapetanou E., Malamas S., Leventis D., Karantanas A.H. and **Klontzas M.E.**, “Developing a Radiomics Atlas Dataset of normal Abdominal and Pelvic computed Tomography (RADAPT)”, *J Imaging Inform Med*, 2024
4. Albano D., Mallardi C.,..., **Klontzas M.E.**,...,Messina C. “How young radiologists use contrast media and manage adverse reactions: an international survey”, *Insights Imaging*, 15(1):92, 2024
5. **Klontzas M.E.**, Kalarakis G., Koltsakis E., Papathomas T., Karantanas A.H.. Tzortzakakis A. ”Convolutional neural networks for the differentiation between benign and malignant renal tumors with a multicenter international computed tomography dataset”. *Insights Imaging*, 15(1):26, 2024
6. Kocak B., Akinci D’Antonoli T.,..., **Klontzas M.E.**,...,Cuocolo R. “METHodological RadiomICs Score (METRICS): a quality scoring tool for radiomics research endorsed by EuSoMII”, *Insights Imaging*, 171:111313, 2024
7. Vrettos K., Koltsakis E., Zibis A.H., Karantanas A.H. and **Klontzas M.E.**, “Generative adversarial networks for spine imaging: A critical review of current applications”, *Eur J Radiol*, 171:111313, 2024
8. Pimenta M., Vassalou E.E., **Klontzas M.E.**, Dimitri-Pinheiro S., Ramos S., and Karantanas A.H., “Ultrasound-guided hydrodilataion for adhesive capsulitis: capsule-preserving versus capsule-rupturing technique.”, *Skeletal Radiol*, 53(2):253-261, 2024
9. Perysinakis I., **Klontzas M.E.**, Psaroudakis I.G., Karantanas A.H., de Bree E., Vassalou E.E.. ”Performance of Ultrasonography in the Diagnosis of Acute Colonic Diverticulitis”. *J Ultrasound Med*, 43(1):45-56, 2024
10. Kranioti E.F., Spanakis K., Flouri D.E., **Klontzas M.E.**, Karantanas A.H., “PMCT in the investigation of homicides”, *Clin Radiol*, 78(11):832-838, 2023
11. **Klontzas M.E.**, Triantafyllou M., Leventis D., Koltsakis E., Kalarakis G., Tzortzakakis A., Karantanas A.H., “Radiomics analysis for multiple myeloma: a systematic review with radiomics quality scoring”, *Diagnostics*, 13(12):2021, 2023

12. Tejani A.S., **Klontzas M.E.**, Gatti A.A., Mongan J., Moy L. Park S.H., Kahn C.E. Jr. "Updating the checklist for artificial intelligence in medical imaging (CLAIM) for reporting AI research". *Nat Machine Intell*, 5: 950-951, 2023
13. **Klontzas M.E.**, Leventis D., Spanakis K., Karantanas A.H., Kranioti E.F., "Post-mortem CT radiomics for the prediction of time since death", *Eur Radiol*, 33(11):8387-8395, 2023
14. Akinci D'Antonoli T., Stanzione A., Bluethgen C., Vernuccio F., Ugga L., **Klontzas M.E.**, Cuocolo R., Cannella R., Kocak B. "RLarge language models in radiology: fundamentals, applications, ethical considerations, risks, and future directions". *Diagn Interv Radiol*, Online ahead of print, 2023
15. Pimenta M., Vassalou E.E., Cardoso-Marinho B., **Klontzas M.E.**, Dimitri S., Karantanas A.H. "The role of MRI and ultrasonography in diagnosis and treatment of glenohumeral joint adhesive capsulitis", *Med J Rheumatol*, 34(1):7-15, 2023
16. Dimitri-Pinheiro S., **Klontzas M.E.**, Vassalou E.E., Pimenta M., Soares R., Karantanas A.H. "Long-term outcomes of ultrasound-guided hydrodistension for adhesive capsulitis: a prospective observational study", *Tomography*, 2023
17. Akinci D'Antonoli T., Cavallo A.U., Vernuccio F., Stanzione A. **Klontzas M.E.**, Cannella R., Ugga L., Baran A. et al. "Reproducibility of radiomics quality score: an intra- and inter-rater reliability study". *Eur Radiol*, Online ahead of print, 2023
18. **Klontzas M.E.**, Koltsakis E., Kalarakis G., Trpkov K., Papathomas T., Karantanas A.H., Tzortzakakis A. "Machine Learning Integrating 99mTc Sestamibi SPECT/CT and Radiomics Data Achieves Optimal Characterization of Renal Oncocytic Tumors". *Cancers*, 15:3553, 2023
19. **Klontzas M.E.**, Vassalou E.E., Spanakis K., Meurer F., Woerlter K., Zibis A.H., Marias K., Karantanas A.H.. "Deep learning enables the differentiation between early and late stages of hip avascular necrosis". *Eur Radiol*, Online ahead of print, 2023
20. **Klontzas M.E.**, Koltsakis E., Kalarakis G., Trpkov K., Papathomas T., Sun N., Walch A., Karantanas A.H., Tzortzakakis A. "A pilot radiometabolomics integration study for the characterization of renal oncocytic neoplasia". *Sci Rep*, 13:12594, 2023
21. McKenney A.S., **Klontzas M.E.**, Wattamwar K., Hoegger M.J. "Noteworthy: taking notes for radiology training and beyond", *RadioGraphics*, 43(3):e220184, 2023
22. Triantafyllou M., **Klontzas M.E.**, Koltsakis E., Papakosta V., Spanakis K. Karantanas A.H. "Radiomics for the detection of active sacroiliitis on MR imaging". *Diagnostics*, 13:2587, 2023
23. **Klontzas M.E.**, Gatti A.A., Tejani A.S., Kahn C.E. Jr. "AI guidelines: how to select the best one for your research". *Radiol Artif Intell*, 5(3):e230055, 2023
24. **Klontzas M.E.**, Vassalou E.E., Zibis A.H., Karantanas A.H.. "Imaging of anatomical variants around the hip". *Semin Musculoskelet Radiol*, 27(2): 182-196, 2023
25. Cannella R., Venuccio F., **Klontzas M.E.**, Ponsiglione A., Petrash E., Ugga L., Pinto Dos Santos D., Cuocolo R., "Systematic review with radiomics quality score of cholangiocarcinoma: an EuSoMII Radiomics Auditing Group Initiative.", *Insights Imaging*,14:21, 2023
26. Dimitri-Pinheiro S., **Klontzas M.E.**,Pimenta M., Vassalou E.E., Soares R., and Karantanas A.H., "Ultrasound-guided hydrodistension for adhesive capsulitis: a longitudinal study on the effect of diabetes on treatment outcomes.", *Skeletal Radiol*, Online ahead of print, 2022
27. Pimenta M., Vassalou E.E., Dimitri-Pinheiro S., **Klontzas M.E.**, Ramos S., and Karantanas A.H., "Ultrasound-Guided Hydrodistension for Adhesive Capsulitis: Is There any Adjunct Effect of Immediate Post-Procedural Manipulation over Instructed Physical Therapy?.", *J Ultrasound Med*, Online ahead of print, 2022

28. **Klontzas M.E.**, Kearns C., Sheikhabahaei S., and Cornejo P., “Anti-NMDA-Receptor Encephalitis.”, *RadioGraphics*, 42: E199-E200, 2022
29. Kontopodis N, **Klontzas M.E.**, Tzirakis K., Charalambous S., Marias K., Tsetis K, Karantanas A.H., Ioannou C.V. ”Prediction of abdominal aortic aneurysm growth by artificial intelligence taking into account clinical, biologic, morphologic, and biomechanical variables”. *Vascular*, online ahead of print, doi: 10.1177/17085381221077821, 2022
30. **Klontzas M.E.**, Karantanas A.H.. ”Research in Musculoskeletal Radiology: Setting Goals and Strategic Directions”. *Semin Musculoskelet Radiol*, 26(3): 354-358, 2022
31. **Klontzas M.E.**, Vassalou E.E., Kakkos G.A., Spanakis K., Zibis A.H., Marias K., Karantanas A.H.. ”Differentiation between subchondral insufficiency fractures and advanced osteoarthritis of the knee using transfer learning and an ensemble of convolutional neural networks”. *Injury*, 53(6): 2035-2040, 2022
32. **Klontzas M.E.**, Jean J., Turner V.L., and Balthazar P., “Why and How to Increase Diversity in the Radiology Trainee Workforce.”, *RadioGraphics*, 42(3): E82-E85, 2022
33. Balthazar P, **Klontzas M.E.**, Heng L.X.X. and Kearns C., “Cowden Syndrome”, *RadioGraphics*, 42(2): E44-E45, 2022.
34. **Klontzas M.E.**, Lanier M.H., Sheikhabahaei S., and Bedi H., “Exposing the Hidden Curriculum in Radiology Training: A True 360° Evaluation.”, *RadioGraphics*, 42(1): E9-E11, 2022.
35. **Klontzas M.E.**, Volitakis E., Aydingoz U., Chlapoutakis K. and Karantanas A.H. “Machine learning identifies factors related to early joint space narrowing in dysplastic and non-dysplastic hips.” *Eur Radiol*, 32(1):542-550, 2022.
36. Vassalou E.E.*, **Klontzas M.E.***, Kostas Marias and Karantanas A.H. “Predicting long-term outcomes of ultrasound-guided percutaneous irrigation of calcific tendinopathy with the use of machine learning.” *Skeletal Radiol*, 51(2):417-422, 2022
37. European Society of Radiology - **Klontzas ME**, O’Malley E., Afat S., Pozdniakova V., Pecoraro M., Catalano C., Becker M., Reim M.,”Impact of COVID-19 on radiology education in Europe: a survey by the ESR Radiology Trainees Forum (RTF)”. *Insights Imaging*, 12(1):165, 2021
38. **Klontzas ME**, Protonotarios A. ”High-Resolution Imaging for the Analysis and Reconstruction of 3D Microenvironments for Regenerative Medicine: An Application-Focused Review”. *Bioengineering*, 8(11):182, 2021
39. **Klontzas M.E.**, Manikis G.C., Nikiforaki K., Vassalou E.E., Spanakis K., Stathis I., Kakkos G.A., Matthaiou N., Zibis A.H., Marias K., Karantanas A.H.. ”Radiomics and Machine Learning Can Differentiate Transient Osteoporosis from Avascular Necrosis of the Hip”. *Diagnostics*, 11(9):1686, 2021
40. Zibis A.H., Vassalou E.E., Raoulis V.A., Lampridis V., **Klontzas M.E.**, Fyllos A., Stavlas P., Karantanas A.H. ”Knee Capsule Anatomy: An MR Imaging and Cadaveric Study”. *Diagnostics*, 11(11):1965, 2021
41. Raoulis V., Fyllos A., **Klontzas M.E.**, Chytas D., Mitrousias V., Banios K., Maris T.G., Karantanas A.H., Zibis A. “Surgical and Radiological Anatomy of the Medial Patellofemoral Ligament: A Magnetic Resonance Imaging and Cadaveric Study”. *Diagnostics*, 11(11):2076, 2021
42. **Klontzas M.E.**, Vassalou E.E. and Karantanas A.H. “MRI findings of acute anterior instability of the knee in the absence of recent trauma.” Accepted, *Acta Radiol*, 2021
43. Scarborough A., MacFarlane R., **Klontzas M.E.**, Zhou R. and Waseem M. “Compression Neuropathies of the Forearm: Anatomy, Clinical Features and Management”, *Br J Hosp Med (Lond)*, 82(8):1-10, 2021.
44. Chegini S., Campbell S.J., **Klontzas M.E.**, Chopra R., Wright H., Exley R., Thusu S., McKenny E. and Heliotis M. “The Development of a Patient Reported Outcome

and Experience Measure for Orthognathic Surgery: Validation of The Northwick Park Orthognathic Questionnaire (NOQ)”, *Int J Oral Maxillofac Surg*, Epub ahead of print, 2021.

45. Charalambous S.*, **Klontzas M.E.***, Kontopodis N., Ioannou C.V., Perisinakis K., Maris T.G., Damilakis J., Karantanas A.H. and Tsetis D. “Radiomics and machine learning to predict aggressive type 2 endoleaks after endovascular aneurysm repair: a proof of concept.” *Acta Radiol*, Online ahead of print, doi: 10.1177/02841851211032443, 2021.

***co-first authorship**

46. Pitsidianakis G., Vassalou E.E., Vasarmidi E., Bolaki M., **Klontzas M.E.**, Xirouchaki N. Georgopoulos D., Karantanas A.H., Tzanakis N. and Antoniou K.M. “Performance of lung ultrasound for monitoring interstitial lung disease.” *J Ultrasound Med*, Epub ahead of print, 2021.
47. Galanakis N., **Klontzas M.E.**, Karantanas A.H., Kontakis G., Sidiropoulou B. and Tosounidis T. “The level of bifurcation of peroneal artery and its implications for posterolateral approach to the ankle: a CT angiography study.” *Surg Radiol Anat*, 43:1697-1702, 2021.
48. Kakkos GA, **Klontzas M.E.**, Koltsakis E and Karantanas A.H. “US-guided high-volume injection for Achilles tendinopathy” *J Ultrason*,21(85):e127-e133, 2021.
49. **Klontzas M.E.**, Koltsakis E., Kakkos G.A. and Karantanas A.H. “Ultrasound-guided treatment of Morton’s neuroma” *J Ultrason*,21(85):e134-e138, 2021.
50. **Klontzas M.E.** and Karantanas A.H. “Incorporating engineering principles in radiology education: are we ready to face the future?” *Diagn Interv Imaging*, S2211-5684(21):35-38, 2021.
51. **Klontzas M.E.**, Kakkos GA, Papadakis GZ, Marias K and Karantanas A.H. “Advanced clinical imaging for the evaluation of stem cell based therapies” *Exp Opinion Biol Ther*, 21(9):1253-1264, 2021.
52. Vassalou E.E., **Klontzas M.E.**, Plagou A. and Karantanas A.H. “Ultrasound-guided percutaneous irrigation of calcific tendinopathy: redefining predictors of treatment outcome.” *Eur Radiol*, 31(4):2634-2643, 2021.
53. Papadogiannis F., Batsali A., **Klontzas M.E.**, Karabela, M., Georgopoulou A., Mantalaris A., Zafeiropoulos N. E., Chatzinikolaidou M., Pontikoglou C., “Osteogenic differentiation of bone marrow mesenchymal stem cells on chitosan/gelatin scaffolds: gene expression profile and mechanical analysis.” *Biomed Mater*, 15(6):064101, 2020.
54. **Klontzas M.E.**, Papadakis G.Z., Marias K. and Karantanas A.H. “Musculoskeletal trauma imaging in the era of novel molecular methods and artificial intelligence.” *Injury*, 51(12):2748-2756, 2020.
55. **Klontzas M.E.**, Vassalou E.E., Zibis A.H. and Karantanas A.H. “The effect of injection volume on long-term outcomes of US-guided subacromial bursa injections.” *Eur J Radiol*, 129:109113, 2020.
56. Gilad Doron, **Klontzas M.E.**, Athanasios Mantalaris, Robert E. Guldborg, Johnna S. Temenoff, “Multi-omics characterization of mesenchymal stromal cells cultured in monolayer and as aggregates” *Biotechnol Bioeng*, 117(6):1761-1778, 2020.
57. **Klontzas M.E.** and Karantanas A.H., “Considerations on the use of ferumoxytol-enhanced MRI for the tracking of stem cell implants in cartilage defects” *Radiology*, 294(1):238-239, 2020.
58. **Klontzas M.E.** and Karantanas A.H., “MR imaging of artificial musculoskeletal tissues: bridging the gap between basic science and clinical reality” *Hell J Radiol*, 5(1):38-49, 2020.
59. Vassalou E.E., **Klontzas M.E.**, Tsifountoudis I.P., Spanakis K. and Karantanas A. “Spectrum of skeletal disorders during the peripartum period: MR imaging patterns” *Diagn Interv Radiol*, 25(3):245-250, 2019.

60. Devito L., **Klontzas M.E.**, Cvoro A., Galleu A., Simon M., Hobbs C., Dazzi F., Mantalaris A., Khalaf Y. and Ilic D. "Comparison of human isogeneic Wharton's jelly MSCs and iPSC-derived MSCs reveals differentiation-dependent metabolic responses to IFNG stimulation" *Cell Death Dis*, 10(4):277, 2019.
61. **Klontzas M.E.**, Reakasame S., Silva R., Morais J.C.F., Vernardis S., MacFarlane R.J., Heliotis M., Tsiroidis E., Panoskaltsis N., Boccaccini A.R. and Mantalaris A. "Oxidized alginate hydrogels with the GHK peptide enhance cord blood mesenchymal stem cell osteogenesis: a paradigm for metabolomics-based evaluation of biomaterial design" *Acta Biomaterialia* 88:224-240, 2019.
62. Gyorgy R, **Klontzas M.E.**, Kostoglou M., Panoskaltsis N., Mantalaris A., Georgiadis M. "Capturing mesenchymal stem cell heterogeneity during osteogenic differentiation: An experimental-modeling approach" *Ind Eng Chem Res* 58:13900-13909, 2019.
63. Tahlawi A.*, **Klontzas M.E.***, Allenby M.C., Morais J.C.F., Panoskaltsis N. and Mantalaris A. "RGD-functionalized polyurethane scaffolds promote umbilical cord blood mesenchymal stem cell expansion and osteogenic differentiation" *J Tissue Eng Regen Med*, 13(2):232-243, 2019. *co-first authorship
64. Al-Hadi N., Chegini S., **Klontzas M.E.**, McKenny J. and Heliotis M. "Patient expectations and satisfaction following orthognathic surgery" *Int J Oral Maxillofac Surg*, 48(2):211-216, 2019.
65. Zibis A.H., Mitrousias V., **Klontzas M.E.**, Karachalios T., Varitimidis S., Karantanas A.H. and Arvanitis D. "Great trochanter bursitis vs Sciatica, a diagnostic - anatomic trap: Differential diagnosis and brief review of the literature." *Eur Spine J*, 27(7): 1509-1516, 2018.
66. **Klontzas M.E.**, Vernardis S.I., Heliotis M., Tsiroidis E. and Mantalaris A. "Metabolomics analysis of the osteogenic differentiation of umbilical cord blood mesenchymal stem cells reveals differential sensitivity to osteogenic agents." *Stem Cells Dev*, 26(10): 723-733, 2017.
67. Kang Y., Georgiou A.I., MacFarlane R.J., **Klontzas M.E.**, Heliotis M., Tsiroidis E. and Mantalaris A. "Fibronectin stimulates the osteogenic differentiation of murine embryonic stem cells." *J Tissue Eng Regen Med*, 11(7):1929-1940, 2017.
68. **Klontzas M.E.**, Zibis A.H., Vassalou E.E. and Karantanas A.H. "MRI of the hip: current concepts on bone marrow oedema." *Hip Int*, 27(4):329-335, 2017.
69. Vassalou E.E., Zibis A.H., **Klontzas M.E.** and Karantanas A.H. "Imaging of impingement syndromes around the hip joint." *Hip Int*, 27(4):317-328, 2017.
70. **Klontzas M.E.**, Vassalou E.E. and Karantanas A.H. "Calcific tendinopathy of the shoulder with intraosseous extension: outcomes of ultrasound-guided percutaneous irrigation." *Skeletal Radiol*, 46(2):201-208, 2017.
71. **Klontzas M.E.**, Kenanidis E.I., MacFarlane R.J., Michail T., Potoupnis M.E., Heliotis M., Mantalaris A. and Tsiroidis E. "Investigational drugs for fracture healing: Preclinical and clinical data." *Expert Opin Invest Drugs*, 25(5): 585-595, 2016.
72. **Klontzas M.E.**, Vassalou E.E., Zibis A.H. and Karantanas A.H. "Hydroxyapatite deposition disease around the hip: outcomes of CT-guided treatment." *Diagn Interv Radiol*, 22(5):466-470, 2016.
73. Vassalou E.E., **Klontzas M.E.**, Kouvidis G.K., Matalliotaki P.I. and Karantanas, A.H. "Rotational knee laxity in anterior cruciate ligament deficiency: an additional MR imaging secondary sign." *AJR Am J Roentgenol*, 206(1):151-154, 2016.
74. **Klontzas M.E.**, Maris T.G., Zibis A.H. and Karantanas A.H. "Normal magnetic resonance imaging anatomy of the anterolateral knee ligament with a T2/T1-Weighted 3-dimensional sequence: a feasibility study." *Can Assoc Radiol J*, 67(1):52-59, 2016.

75. **Klontzas M.E.**, Zibis A.H. and Karantanas A.H. “Reply to “The half-moon sign of the femoral neck is non-specific for the diagnosis of osteoid osteoma.” *AJR Am J Roentgenol*, W55-W56, 2016.
76. **Klontzas M.E.**, Kenanidis E.I., Heliotis M., Tsiridis E. and Mantalaris A. “Bone and cartilage regeneration with the use of umbilical cord mesenchymal stem cells.” *Expert Opin Biol Ther*, 15(11):1541-1552, 2015.
77. **Klontzas M.E.**, Zibis A.H. and Karantanas A.H. “Osteoid osteoma of the femoral neck: use of the ”half-moon” sign in MR imaging diagnosis.” *AJR Am J Roentgenol*, 205(2):353-7, 2015.
78. **Klontzas M.E.**, Vassalou E.E., Zibis A.H., Bintoudi A.S. and Karantanas A.H. “MR imaging of transient osteoporosis of the hip: An update on 155 hip joints.” *Eur J Radiol*, 84(3)431-436, 2015.
79. **Klontzas M.E.**, Hatzidakis A. and Karantanas A.H. “Imaging findings in a case of stand up paddle surfer’s myelopathy.” *BJR Case Rep*, 1:20150004, 2015.
80. **Klontzas M.E.** and Karantanas A.H. “Greater Trochanter Pain Syndrome: A descriptive MR imaging study.” *Eur J Radiol*, 83(10): 1850-1855, 2014.
81. **Klontzas M.E.**, Akoumianakis I.D., Vagios I. and Karantanas A.H. “MR findings of medial tibial crest friction.” *Eur J Radiol*, 82(11):e703-e706, 2013.
82. Pavlaki K.I., Kastrinaki M.-C., **Klontzas M.E.**, Velegraki M., Mavroudi I. and Papadaki H.A. “Abnormal telomere shortening of peripheral blood mononuclear cells and granulocytes in patients with chronic idiopathic neutropenia.” *Haematologica*, 97: 743-750, 2012.

BOOKS EDITED

1. **Klontzas M.E.**, Fanni S.C., Neri E. (Eds.) ”Introduction to Artificial Intelligence”, Springer International, 2023.
2. **Series editor** together with Peter van Ooijen, Erik Ranshaert & Annalisa Trianni, Book series ”Imaging informatics for healthcare professionals”, Springer International on behalf of EuSoMII

BOOK CHAPTERS

1. Kakkos GA, **Klontzas M.E.**, Vassalou E.E. and Karantanas A.H. “CT arthrography of the ankle” In *Imaging of the Foot & Ankle: techniques and applications 2nd edition*, Davies A.M., Whitehouse R.W., Jenkins, J.P.R. (Eds.) Springer International, to be published 2022.
2. **Klontzas M.E.**, Aydingoz U., Karantanas A.H. “Imaging of early-onset osteoarthritis” In *Developmental Dysplasia of the Hip: from Early Sonographic Diagnosis to Effective Treatment*, O’Beirne and Chlapoutakis (Eds.) Springer International, to be published early 2022.
3. **Klontzas M.E.**, Kramer J. and Karantanas A.H. “Friction, Impingement & Entrapment Syndromes of the Knee” In *MRI of the Knee: second revised and expanded edition*, Kramer J. and Karantanas A.H. (Eds.) ESSR Sports Imaging Subcommittee Publication, Breitenseher Publisher, ISBN: 978-3-902933-81-2, 2020.
4. Kenanidis E., Stamatopoulos A., **Klontzas M.E.** et al. “Hip Resurfacing Athroplasty (HRA)” In *The Adult Hip - Master Case Series and Techniques*, Tsiridis E. (Ed.) Springer International, ISBN: 978-3-319-64177-5, 2018.
5. Kenanidis E., Kakoulidis P., Lampridis V., **Klontzas M.E.** et al. “THA Following Pediatric Hip Diseases (Legg-Calve-Perthes/Slipped Capital Femoral Epiphysis)” In *The Adult Hip - Master Case Series and Techniques*, Tsiridis E. (Ed.) Springer International, ISBN: 978-3-319-64177-5, 2018.
6. **Klontzas M.E.**, and Karantanas A.H. “MRI and CT anatomy of the shoulder: Normal anatomy and variants.” In *Clinical anatomy of the shoulder*, Zibis A.H. (Ed.) [In Greek] Konstantaras Publications, ISBN: 9789606080050, 2017.

7. **Klontzas M.E.**, Kramer J. and Karantanas A.H. “The many faces of hip bone marrow edema.” In *MRI of the hip*, Kramer J. and Karantanas A.H. (Eds.) ESSR Sports Imaging Subcommittee Publication, Breitenseher Publisher, ISBN: 978-3-902933-37-9, 2016.

AWARDS -
DISTINCTIONS

Grants

- **NetZeroAICT** 2023
European Union, Horizon Europe
Co-PI
Co-ordinator: Collective Minds Radiology (Sweden)
- **ESSR Young Researcher’s Grant** 2022
European Society of Skeletal Radiology
Project: Staging of avascular necrosis of the femoral head
with the use of deep learning

Scholarships

- Manassaki Scholarship for Doctoral Studies 2022
School of Medicine, University of Crete
- Invest in the Youth fellowship 2023
European Congress of Radiology, Vienna, July 2023
- Invest in the Youth fellowship 2022
European Congress of Radiology, Vienna, July 2022
- Invest in the Youth fellowship 2021
European Congress of Radiology, Vienna, March 2021
- E.U. Horizon 2020 – Marie Skłodowska-Curie I.T.N. fellowship 2015
Imperial College London, UK
- Burkett scholarship for outstanding 1st year PhD Candidates 2015
Department of Chemical Engineering, Imperial College London, UK
- Leventis Foundation PhD Scholarship (declined) 2015

Publication - Presentation Awards

- 3rd Student Prize – Best PhD Thesis Presentation 2018
Imperial College London, UK
- Paper featured on the cover of *Stem Cells and Development* 2017
- Best oral presentation award - *Intra-university Congress of Radiology* 2013
- Best poster award - *Panhellenic Haematology Conference* 2011

Prizes - Distinctions

- Finalist (1 out of 2 in Europe) for the ”Radiology Rising Star” 2022
award of AuntMinnieEurope.com (2022)
- 1st Prize in the 16th Medical Knowledge Olympiad 2012
Hellenic Congress of Medical Students, Athens, GR
- Honour from the Dean of the Faculty of Medicine (UoC) 2008
for writing two chapters and editing the whole of the First Year's
Musculoskeletal Anatomy notes
- Fifth out of 128 first year students, UoC Faculty of Medicine 2008
Based on grades obtained on national university entrance exams
- Bronze medal 2008
Greek National Mathematical Olympiad ”Archimides”

PRESENTATIONS
POSTERS

Radiology Imaging Conferences

- **Invited Speaker** - ESR Leadership Meeting
European Society of Radiology, Dublin, IE
ESR Radiology Trainees Forum November 2023
 - **Invited Speaker** - EuSoMII Annual Meeting
EuSoMII, Pisa, IT
*Round table on publishing with Charles E. Kahn Jr,
Luis Marti-Bonmati, Daniel Pinto dos Santos,
Jacob Visser, Merel Huisman* October 2023
 - **Invited Speaker** - CARVAT is back
SIRM, Rome, IT
Virtual reality October 2023
 - **Invited Speaker** - ESSR meets Greece
Course on peripheral joints, Athens, GR
Artificial intelligence and radiomics for the study of hip bone marrow edema September 2023
 - Oral presentation -
European Congress of Radiology, Online
*Untangling the nature of subchondral bone marrow lesions of the knee
with the use of deep learning-a multi-centre cross-sectional study* Mar 2022
 - **Invited Speaker** - Open Forum
European Congress of Radiology, Vienna, AT
*My involvement in a subspecialty committee: a multidisciplinary
perspective - Young EuSoMII* July 2022
 - Panelist
European Congress of Radiology, Vienna, AT
Junior Interpretation Quiz July 2022
 - **Invited Speaker**
Society for Imaging Informatics in Medicine (SIIM), Annual Meeting
*Introducing engineering and informatics in radiology education:
shaping the radiologist of the future* May 2021
 - Oral presentation -
European Congress of Radiology, Vienna, AT
*The role of multidimensional hip anatomy in early joint space narrowing:
a multi-centric cross-sectional study* Mar 2021
 - **Invited Speaker**
ESSR 2019 Annual Meeting, Lisbon, PT
Bone Marrow Edema Syndromes Feb 2018
 - **Invited Speaker** - Rising Stars Section
European Congress of Radiology, Vienna, AT
Radiologic anatomy: lower extremities Feb 2018
 - **Invited Session Moderator**
the European Congress of Radiology, Vienna, AT
Imaging the hip and thigh Feb 2018
 - **Invited Speaker** - Rising Stars Section
European Congress of Radiology, Vienna, AT
Radiologic anatomy: lower extremities Mar 2017
- Biomedical Engineering - Stem Cell Conferences**
- Annual Meeting of the International Society for Stem Cell
Research, Boston, MA (Poster) Jun 2017
 - T.E.R.M.I.S. E.U. Meeting, Davos, CH (Poster) Jun 2017
 - E.F.O.R.T. Congress, Vienna, AT (*Presentation & Poster*) May 2017
-

TEACHING
EXPERIENCE

Ad-hoc lecturer

2019-now

Undergraduate Compulsory Module - Radiology B - Year 4
 Undergraduate Elective Module - Imaging of Sports Injuries - Year 5
 MSc in Biomedical Engineering - lecturing in modules BME7, BME10, BME11
 on omics technologies, tissue engineering
 and clinical imaging modalities
 MSc Module - MSc in Surgical Sciences - Imaging Tutorials
 University of Crete, School of Medicine

Anatomy demonstrator 2016-2017

Year 5 - Introduction to Musculoskeletal Anatomy
 Imperial College London, School of Medicine
 Anatomy demonstration using cadaveric prosections
 and skeletons in the dissecting room - Teaching clinical applications
 in the Anatomy Skills Lab, *Charing Cross Hospital* –
 Supervisor: Mr Chinmay Gupte, PhD, MA, FRCS,
 Clinical Senior Lecturer in Musculoskeletal Surgery

Anatomy demonstrator (paid position) Spring 2010

Demonstrating anatomy on plastic specimens and
 teaching clinical correlations
 Supervisor: George Tzanakakis, M.D., Ph.D., Professor of Anatomy
 University of Crete, Faculty of Medicine

COURSES

Research Oriented

- Model Based Metabolic Engineering 2017
Organised by: Vassily Hatzimanikatis Ph.D., E.P.F.L., Lausanne, CH
- Thermodynamics & Modelling of Biological Networks 2017
Organised by: Edda Klipp Ph.D., Humboldt University, Berlin, DE
- Hands-on Data Analysis Course for Metabolic Profiling 2016
Imperial Phenome Center, Imperial College London, UK

Clinically Oriented

- Systematic reviews and meta-analysis in action 2016
National Clinical Guideline Center, UK
- Training the Trainers Course 2016
Royal College of Surgeons, UK
- Musculoskeletal M.R.I. Series: Knee & Ankle 2016
British Institute of Radiology, UK
- Advanced Life Support (A.L.S.) Provider Course 2014
European Resuscitation Council
- Graf's Basic Course of Neonatal & Infant Hip Ultrasound 2014
*Deutsche Gessellschaft für Orthopädie und Traumatologie
 Hosted by the Faculty of Medicine, University of Crete, GR*
- Shoulder Anatomy Course: All you need to know 2014
Department of Anatomy, University of Thessaly, GR
- Systematic Training in Acute Illness Recognition
 and Treatment for Surgery (S.T.A.R.T. Surgery) 2014
Department of Anatomy, University of Thessaly, GR
- RCS Summer School in Anatomy and Surgical Skills for Students 2012
Royal College of Surgeons, UK
- Summer School of Oncology for Medical Students 2012
Department of Oncology, University of Crete, GR
- Basic Life Support (B.L.S.) Provider Course 2014
European Resuscitation Council

GRANT
EVALUATION

Ad-hoc Reviewer for proposals submitted to the Medical Research Council and the Engineering and Physical Sciences Research Council (UK)

PEER-REVIEWING **Ad-hoc Reviewer** for the following PubMed-indexed journals (Publon's certified reviews):

- RadioGraphics
 - Radiology: Artificial Intelligence
 - AJR - American Journal of Roentgenology
 - European Journal of Radiology
 - European Radiology
 - B.J.R. Case Reports
 - Diagnostics
 - Hellenic Journal of Radiology
 - PLoS Medicine
 - BMC Biotechnology
 - Pain Medicine
 - Cell & Tissue Banking
 - Materials
 - Nanomaterials
 - Applied Sciences
 - Current Proteomics
 - Stem Cell Reviews & Reports
 - International Journal of Molecular Sciences
-

SKILLS AND
ACTIVITIES

Experimental

- Stem cell culture, Biomaterials fabrication, G.C.-M.S. metabolomics, Osteogenic & Chondrogenic differentiation analysis assays, Immunofluorescence, E.L.I.S.A., qRT-PCR, Confocal microscopy, Flow cytometry, LaTeX

Computational

- Python, R, T.M.4 MeV, GraphPad Prism, S.P.S.S., Ms Office, LaTeX

Mentorship

- I have supervised 5 MSc students and 1 undergraduate research experience student

Languages

- Greek (*Native*), English (C2), German (B1)