

CURRICULUM VITAE

PERSONAL DATA

Name	Maha Algarawi
Nationality	Saudi
Position	Assistent Professor
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EDUCATION

Year	Academic Degree	Institution
2008	Bachelor	King Saud University
2013	Master	King Saud University
2022	Ph.D	University of California Irvine

WORK EXPERIENCE

Period	Position	Address
2009	Demonstrator	Physics department, Imam Mohamed bin Saud University.
2014	Lecturer	Physics department, Imam Mohamed bin Saud University.
2022	Assistent Professor	Physics department, Imam Mohamed bin Saud University.

RESEARCH INTERESTS

Medical Physics

PUBLICATIONS

Nouizi, F., **Algarawi, M.**, Erkol, H., & Gulsen, G. (2023, March). Multiwavelength photo-magnetic imaging: a novel high-resolution optical molecular imaging modality (Conference Presentation). In *Multimodal Biomedical Imaging XVIII* (p. PC1237109). SPIE.

Nouizi, F., Cho, J., **Algarawi, M.**, Kim, C. S., & Gulsen, G. (2022). Application of a wavelength-swept laser for spectrally resolved wide-field near-infrared fluorescence imaging. *Optics Continuum*, 1(8), 1768-1776

Nouizi, F., **Algarawi, M.**, Erkol, H., Luk, A., & Gulsen, G. (2022, March). Photo-magnetic imaging: a new functional imaging modality for more accurate photothermal therapy planning. In *Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic and Photobiomodulation Therapy XXX* (Vol. 11940, pp. 28-34). SPIE.

Nouizi, F., **Algarawi, M.**, Erkol, H., Luk, A., & Gulsen, G. (2021). Multiwavelength photo-magnetic imaging algorithm improved for direct chromophore concentration recovery using spectral constraints. *Applied Optics*, 60(35), 10855-10861.

Algarawi, M., Erkol, H., Luk, A., Ha, S., Burcin Unlu, M., Gulsen, G., & Nouizi, F. (2021). Multi-Wavelength Photo-Magnetic Imaging System for Photothermal Therapy Guidance. *Lasers in surgery and medicine*, 53(5), 713-721

Erkol, H., Yelken, S. Z., **Algarawi, M.**, Gulsen, G., & Nouizi, F. (2020). Validation of a comprehensive analytical model for photothermal therapy planning in a layered medium with gold nanoparticles. *International Journal of Heat and Mass Transfer*, 163, 120438.

Algarawi, M., Erkol, H., Luk, A., Ha, S., Ünlü, M. B., Gulsen, G., & Nouizi, F. (2020). Resolving tissue chromophore concentration at MRI resolution using multi-wavelength photo-magnetic imaging. *Biomedical Optics Express*, 11(8), 4244-4254

Mehrabi, M., Nouizi, F., **Algarawi, M.**, Kwong, T. C., Erkol, H., Sampathkumaran, U., & Gulsen, G. (2019, March). CCD-based temperature modulated fluorescence tomography. In *Optical Tomography and Spectroscopy of Tissue XIII* (Vol. 10874, pp. 111-118). SPIE.

Algarawi, M., Nouizi, F., Luk, A., Mehrabi, M., Erkol, H., Ünlü, M. B., ... & Ha, S. (2019). High-resolution chromophore concentration recovery using multi-wavelength photo-magnetic imaging. *Multimodal Biomedical Imaging XIV*, 10871, 36-43.

Nouizi, F., Erkol, H., Luk, A., **Algarawi, M.**, Mehrabi, M., & Gulsen, G. (2018, April). Multi-wavelengths photo magnetic imaging. In *Clinical and Translational Biophotonics* (pp. JW3A-45). Optica Publishing Group.

Erkol, H., Nouizi, F., Luk, A., Mehrabi, M., **Algarawi, M.**, Unlu, M. B., & Gulsen, G. (2018, April). A comprehensive analytical based computational approach for laser induced heat in a heterogeneous turbid medium. In *Clinical and Translational Biophotonics* (pp. JTh3A-16). Optica Publishing Group.