

*Curriculum Vitae*  
**Ammar Anwar Khaled Oglat**

**Personal**

**SUMMARY**

*Dedicated resourceful academian and researcher. Offering one year of teaching experience and many years of research experience with knowledge across the domains of Radiology, Ultrasound, Doppler ultrasound, Medical physics, and Medical diagnostic imaging.*

**PROFESSIONAL EXPERIENCE**

*Hashemite University, Zarqa, Jordan. Assistant Professor, October 2019 – present*

**Positions:** *PhD, Medical Diagnostic Imaging, at University Hashemite University, Zarqa, Jordan*

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*Date of Birth:* 06 July, 1992

**Biographical details**

*Current research interests are mainly revolved around; Diagnosis in Medical Imaging, Receiver Operating*

*Characteristic analysis of performance, phantom fabrication to mimic human performance and performance errors particularly in medical imaging interpretation, as well as measuring the blood flow using Doppler Ultrasound. I have presented several manuscripts in term of diagnosis Doppler ultrasound at 6th INTERNATIONAL CONFERENCE ON SOLID STATE SCIENCE AND TECHNOLOGY (ICSSST2017).*

### **Academic Qualifications**

2019	<i>PhD in Medical Diagnostic Imaging</i>	<i>University Science Malaysia (USM)</i>
2016	<i>Master (MSc) of Medical Physics and Radiological Applications</i>	<i>University Science Malaysia (USM)</i>
2014	<i>Bachelor (BCs) of Radiologic Technology</i>	<i>Jordan University of Sciences and Technology (JUST)</i>

### **National/International Conferences, Workshops:**

*I have presented several manuscripts in term of diagnosis the Doppler ultrasound at 6th INTERNATIONAL CONFERENCE ON SOLID STATE SCIENCE AND TECHNOLOGY (ICSSST2017).*

### **Teaching Record**

February 2017 till June 2019	<i>Teaching assistant (TA) in Department of Medical Physics and Radiation Science, School of Physics, USM (Ultrasound Practical).</i>
February 2017 till June 2019	<i>Teaching assistant (TA) in Department of Medical Physics and Radiation Science, School of Physics, USM (Human Anatomy and physiology).</i>
February 2017 till June 2019	<i>Teaching assistant (TA) in Department of Medical Physics and Radiation Science, School of Physics, USM (Radiation Physics).</i>
February 2017 till June 2019	<i>Teaching assistant (TA) in Department of Medical Physics and Radiation Science, School of Physics, USM (Physics of Medical Imaging).</i>
February 2017 till June 2019	<i>Teaching assistant (TA) in Department of Medical Physics and Radiation Science, School of Physics, USM (ultrasound and medical imaging).</i>

### **Employment Record**

June 28, 2018 till now	<i>A reviewer in Bentham journals particularly in Journal of "Current Medical Imaging Reviews".</i>
November 19, 2018 till now	<i>A reviewer in International Journal of Medical Imaging.</i>

## Employment Record

December	August 2014- January 2015	Radiographer Technologists at: <ol style="list-style-type: none"><li>1. Istiklal Hospital</li><li>2. American Jordanian Medical Complex / Imperial Clinic</li><li>3. Al Jazeera Hospital &amp; Specialized Kidney Centre Al Jazeera</li></ol>
	January 2015 – 2019	Postgraduate Student at University of Science, Malaysia (USM)

## Training

Set 2010 – June 2014	Participating in theoretical & clinical training in the following courses: ◆ Radiographic positioning ◆ CT scan and Angiogram ◆ MRI scan and Fluoroscopy ◆ Ultrasound scan and Mammography, <b>at several hospitals in Jordan.</b>
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## Awards

1. **Ammar Anwar Oglat**, "SANGGAR SANJUNG AWARD" for excellent achievement in Journal publications for the year 2018.
2. **Ammar Anwar Oglat**, "Hadiah Sanjungan AWARD" for excellent achievement in journal publications for the year 2018.

## Students and Trainees

(Thesis Supervisor)

### Successfully Completed

**Nagham M. Bany Salman**                      2020                      Department of Physics                      Thesis Title: Substantial Influence of Magnesium Chloride Inorganic Salt on N-(Hydroxymethyl) Acrylamide (NHMA) Polymer Gel Dosimeter for Radiation Therapy.

**Issra' M E Hammoudeh**                      2020                      Department of Physics                      Thesis Title: Improved the Performance of N-(Hydroxymethyl)acrylamide Gel Dosimeter using Potassium Chloride for Radiotherapy.

**Laith Shaish Alshomali**                      2020                      Department of Physics                      Thesis Title:  
Developing the Dose Sensitivity of N-(3-methoxypropyl) acrylamide Polymer Gel Dosimeter (NMPA) for Radiotherapy Treatment Planning System.

**Khalid Sabarna**                      2020                      Department of Medical Imaging                      Thesis Title:  
Evaluation of Awareness and Nosocomial Infection Control Practices Among Radiological Technologists (Radiographers) in Palestine.

**Zakaria Shweiki**                      2020                      Department of Medical Imaging                      Thesis Title:  
Fabrication of Low-Cost Realistic Three Dimensions Static Kidney Phantom for Ultrasound-Guided Biopsy Applications.

**Saja Akram Smadi**                      2021                      Department of Physics                      Thesis Title: Improving the  
Dose Sensitivity of N-(Hydroxymethyl) acrylamide Polymer Gel Dosimeter (NHMA) for Radiotherapy Treatment Planning System.

**Abdalrhman Kutkut**                      2021                      Department of Physics                      Thesis Title: Influence of  
Calcium Chloride on the Performance of Polyacrylamide Gel Dosimeter for Low Dose Applications.

**(Thesis committee member)**

**Successfully Completed**

**Abdalrhman Kutkut**                      2021                      Department of Physics                      Thesis Title: Influence of  
Calcium Chloride on the Performance of Polyacrylamide Gel Dosimeter for Low Dose Applications.

#### **Publication**

1. **Oglat, A.A.**, M. Matjafri, N. Suardi, M.A. Oqlat, A.A. Oqlat, and M.A. Abdelrahman, A NEW BLOOD MIMICKING FLUID USING PROPYLENE GLYCOL AND THEIR PROPERTIES FOR A FLOW PHANTOM TEST OF MEDICAL DOPPLER ULTRASOUND. International Journal of Chemistry, Pharmacy & Technology, 2017. Vol. 2, No.5, pp-220-231.
2. Bashir, U., Z. Hassan, N.M. Ahmed, **A. Oglat**, and A. Yusof, *Sputtered growth of high mobility InN thin films on different substrates using Cu-ZnO buffer layer*. Materials Science in Semiconductor Processing, 2017. **71**: p. 166-173.

3. Farhat, O., M. Halim, N.M. Ahmed, **A.A. Oglat**, A. Abuelsamen, M. Bououdina, and M. Qaeed, A study of the effects of aligned vertically growth time on ZnO nanorods deposited for the first time on Teflon substrate. *Applied Surface Science*, 2017. 426: p. 906-912.

4. **Oglat, A.A.**, M. Matjafri, N. Suardi, M.A. Oqlat, M.A. Abdelrahman, and A.A. Oqlat, A review of medical doppler ultrasonography of blood flow in general and especially in common carotid artery. *Journal of Medical Ultrasound*, 2018. 26(1): p. 3.
5. **Oglat, A. A.**, Suardi, N., Matjafri, M. Z., Oqlat, M. A., Abdelrahman, M. A., & Oqlat, A. A. (2018). A review of Suspension-Scattered particles used in blood-mimicking fluid for doppler ultrasound imaging. *Journal of Medical Ultrasound*, 26(2), 68.
6. **Oglat AA**, Matjafri MZ, Suardi N, Abdelrahman MA, Oqlat MA, Oqlat AA. Anew scatter particle and mixture fluid for preparing blood mimicking fluid for wall- less flow phantom. *J Med Ultrasound (In Press)*.
7. **Oglat, A.**, Matjafri, M., Suardi, N., Oqlat, M., Abdelrahman, M. (2018). Chemical items used for preparing tissue-mimicking material of wall-less flow phantom for doppler ultrasound imaging. *Journal of Medical Ultrasound*, 26(3), 123-127. doi: 10.4103/jmu.jmu\_13\_17.
8. Mysara Rumman, Muntaser S. Ahmad, **Oglat, A. A.**, & Suardi, N. (2018). AN ASSESSMENT OF SENIOR AND JUNIOR MEDICAL IMAGING STUDENTS FAMILIARITY WITH CORRECT RADIOGRAPHIC EVALUATION CRITERIA AND CLINICAL TRAINING EFFICIENCY. *International Journal of Chemistry, Pharmacy & Technology*, 3, 1-10.
9. **Oglat, A. A.**, Matjafri, M. Z., Suardi, N., Oqlat, M. A., Abdelrahman, M. A. (2018). Measuring The Acoustical Properties of Fluids and Solid Materials Via Dealing With A-SCAN (GAMPT) Ultrasonic. In *Journal of Physics (Vol. 1083, No. 1, p. 012053)*. IOP Publishing.
10. Raed Abdalrheem, F.K. Yam, Mat Jafri, **Ammar A. Oglat**. Comparative Studies on The Transfer of Chemical Vapor Deposition Grown Graphene Using Either Electrochemical Delamination or Chemical Etching Method. *IOP Conf. Series: Journal of Physics: Conf. Series 1083 (2018) 012038*.
11. **Oglat, A. A.**, Matjafri, M. Z., Suardi, N., Abdelrahman, M. A. (2018). Acoustical and Physical Characteristic of a New Blood Mimicking Fluid Phantom. In *Journal of Physics (Vol. 1083, No. 1, p. 012010)*. IOP Publishing.
12. **Ammar A. Oglat**, MZ Matjafri, Nursakinah Suardi. (2018). THEORETICAL STUDY OF BLOOD FLOW AND PERFUSION PARAMETERS IN FOREHAND SKIN VASCULAR USING DATA OF LASER DOPPLER IMAGING APPLICATIONS ON MATLAB PROGRAM. *International Journal of Chemistry, Pharmacy & Technology*, 3, 25-43.
13. Muntaser S. Ahmad, Norlaili A. Kabir, Nursakinah Suardi, **Ammar A. Oglat**. (2018). RADIOLUMINESCENCE AND SCINTILLATION PROPERTIES OF ZINC DOPED WITH ALUMINUM. *International Journal of Chemistry, Pharmacy & Technology*, 3, 44-49.
14. **Oglat, A.**, Matjafri, M., Suardi, N., Oqla, Abdelrahman, M. (2018). Characterization and Construction of a Robust and Elastic Wall-Less Flow Phantom for High Pressure Flow Rate Using Doppler Ultrasound Applications. *Natural and Engineering Sciences*, 3(3), 359-377.
15. Yeoh, S., Matjafri, M. Z., Mutter, K. N., & **Oglat, A. A.** (2019). Plastic Fiber Evanescent Sensor in Measurement of Turbidity. *Sensors and Actuators A: Physical*, 285, 1-7.
16. Muntaser S. Ahmad, Mysara Rumman, Ruba Abu Malash, **Ammar A. Oglat**, Nursakinah Suardi2. (2018). EVALUATION OF POSITIONING ERRORS FOR IN ROUTINE CHEST XRAY AT BEIT JALA GOVERNMENTAL HOSPITAL. *International Journal of Chemistry, Pharmacy & Technology*, 5, 1-8.
17. Suardi, N., Mustapa, A. S., Mohammad, H., **Oglat, A. A.**, Abunahel, B. M., Mohamed, A. M., & Makhmrah, O. (2019). Current Status Regarding Tumour Progression, Surveillance, Diagnosis, Staging, and Treatment Of HCC: A Literature Review. *Journal of Gastroenterology and Hepatology Research*, 8(2), 2841-2852.

18. Abdalrheem, Raed, F. K. Yam, Abdul Razak Ibrahim, H. S. Lim, K. P. Beh, Anas A. Ahmed, **Ammar A. Oglat** et al. "Improvement in Photodetection Characteristics of Graphene/p-Silicon Heterojunction Photodetector by PMMA/Graphene Cladding Layer." *Journal of Electronic Materials*: 1-9.
19. Raed Abdalrheem, F.K. Yam, Abdul Razak Ibrahim, K.P. Beh, H.S. Lim, Y.Z. Ng, **Ammar A. Oglat**, M.Z. Mat Jafri, F.H.A. Suhaimi "The Effects of Hydrogen Flowrate during Pre-Annealing on Graphene Growth by Chemical Vapor Deposition Using Methanol as a Liquid Carbon Precursor" *Journal of Solid State Phenomena*. 2019.
20. Abdalrheem, Raed, F. K. Yam, Abdul Razak Ibrahim, H. S. Lim, K. P. Beh, **Ammar A. Oglat**, Naveed Afzal, Khaled M. Chahrour, and Sabah M. Mohammad. "Effect of Ni and Cu catalysts on graphene growth under different ethanol flow rates using atmospheric pressure chemical vapor deposition." *Materials Research Express* 6, no. 8 (2019): 085627.
21. Marashdeh, M. W., Abubaker, A., Suwais, K. M., Alshipli, M., **Oglat, A. A.**, & Tajuddin, A. A. (2019, June). Clustering technique to determinate signal-to-noise ratio of Rhizophora spp. binderless and araldite resin particleboard as phantom material on computed tomography images. In *Journal of Physics: Conference Series* (Vol. 1248, No. 1, p. 012016). IOP Publishing.
22. Ahmad, M. S., Suardi, N., Shukri, A., Mohammad, H., **Oglat, A. A.**, Alarab, A., & Makhamrah, O. (2020). Chemical characteristics, motivation and strategies in choice of materials used as liver phantom: A literature review. *Journal of Medical Ultrasound*, 28(1), 7.
23. **Oglat, A. A.** (2020). Acceptance experimentation and quality monitor of x-ray radiography units. *Radiation Physics and Chemistry*, 172, 108810.
24. Shalbi, S. M., **Oglat, A. A.**, Albarbar, B., Elkut, F., Qaeed, M. A., & Arra, A. A. (2020). A brief review for common doppler ultrasound flow phantoms.
25. Alshipli, M., Sayah, M. A., & **Oglat, A. A.** (2020). Compatibility and validation of a recent developed artificial blood through the vascular phantom using doppler ultrasound color-and motion-mode techniques. *Journal of Medical Ultrasound*, 28(4), 219.
26. **Ammar A Oglat**, Marwan Alshipli, Mohannad Adel Sayah, Muntaser S Ahmad, "Artifacts in Diagnostic Ultrasonography", *Journal for Vascular Ultrasound*, (2020),1544316720923937.
27. Ali Dheyab, M., Abdul Aziz, A., Jameel, M. S., Moradi Khaniabadi, P., & **Oglat, A. A.** (2020). Rapid sonochemically-assisted synthesis of highly stable gold nanoparticles as computed tomography contrast agents. *Applied Sciences*, 10(20), 7020.
28. Ahmad, M. S., Suardi, N., Shukri, A., Ab Razak, N. N. A. N., **Oglat, A. A.**, Makhamrah, O., & Mohammad, H. (2020). Dynamic hepatocellular carcinoma model within a liver phantom for multimodality imaging. *European journal of radiology open*, 7, 100257.
29. Ahmad, M. S., Suardi, N., Shukri, A., Ab Razak, N. N. A. N., **Oglat, A. A.**, & Mohammad, H. (2020). A recent short review in non-invasive magnetic resonance imaging on assessment of HCC stages: MRI findings and pathological diagnosis. *Journal of Gastroenterology and Hepatology Research*, 9(2), 3113-3123.
30. Ahmad, M. S., Shareef, M., Wattad, M., Alabdullah, N., Abushkadim, M. D., & **Oglat, A. A.** (2020). Evaluation of Exposure Index Values for Conventional Radiology Examinations: Retrospective Study in Governmental Hospitals at West Bank, Palestine. *Atlas Journal of Biology*, 724-729.
31. **Oglat, A. A.** (2020). Studying the radiation absorption and scattering of gamma rays by using different absorbers. *Radiation Physics and Chemistry*, 176, 109072.
32. Farhat, O. F., Hisham, M., Bououdina, M., **Oglat, A. A.**, & Mohammed, N. J. (2020). Growth of ZnO Nanostructures by Wet Oxidation of Zn Thin Film Deposited on Heat-Resistant Flexible Substrates at Low Temperature. *Semiconductors*, 54(10), 1220-1223.
33. Dheyab, M. A., Khaniabadi, P. M., Aziz, A. A., Jameel, M. S., Mehrdel, B., **Oglat, A. A.**, & Khaleel, H. A.



- (2021). Focused role of nanoparticles against COVID-19: Diagnosis and treatment. *Photodiagnosis and Photodynamic Therapy*, 102287.
34. Rabaeh, K. A., Issra'ME, H., **Oglat, A. A.**, Eyadeh, M. M., Ala'J, A. Q., Aldweri, F. M., & Awad, S. I. (2021). Polymer gel containing N, N'-methylene-bis-acrylamide (BIS) as a single monomer for radiotherapy dosimetry. *Radiation Physics and Chemistry*, 187, 109522.
  35. Athamnah, S. I., **Oglat, A. A.**, & Fohely, F. (2021). Diagnostic breast elastography estimation from doppler imaging using central difference (CD) and least-squares (LS) algorithms. *Biomedical Signal Processing and Control*, 68, 102667.
  36. **Oglat, A. A.**, & Dheyab, M. A. (2021). Performance evaluation of ultrasonic imaging system (Part I).
  37. Dakok, K. K., Matjafri, M. Z., Suardi, N., **Oglat, A. A.**, & Nabasu, S. E. (2021). A review of carotid artery phantoms for Doppler ultrasound applications.
  38. Ahmad, M. S., Makhamrah, O., Suardi, N., Shukri, A., Ab Razak, N. N. A. N., **Oglat, A. A.**, & Mohammad, H. (2021). Hepatocellular Carcinoma Liver Dynamic Phantom For Mri. *Radiation Physics and Chemistry*, 109632.
  39. Fohely, F., **Oglat, A.**, & Sabarna, K. (2021). Evaluation of Awareness and Nosocomial Infection Control Practices Among Radiological Technologists (Radiographers) in Palestine. *Journal of Radiology Nursing*, 40(2), 194-198.
  40. Alawneh, K. Z., Raffee, L. A., Oqlat, A. A., **Oglat, A. A.**, Al Qawasmeh, M., Ali, M. K., ... & Al-Mistarehi, A. H. (2021). The utility of brain CT scan modality in the management of dizziness at the emergency department: A retrospective single-center study. *Annals of Medicine and Surgery*, 64, 102220.
  41. Rabaeh, K. A., Issra'ME, H., Eyadeh, M. M., Aldweri, F. M., Awad, S. I., **Oglat, A. A.**, & Shatnawi, M. T. (2021). Improved performance of N-(Hydroxymethyl) acrylamide gel dosimeter using potassium chloride for radiotherapy. *Radiation Measurements*, 142, 106542.
  42. Rabaeh, K. A., Salman, N. M. B., Aldweri, F. M., Saleh, H. H., Eyadeh, M. M., Awad, S. I., & **Oglat, A. A.** (2021). Substantial influence of magnesium chloride inorganic salt (MgCl<sub>2</sub>) on the polymer dosimeter containing N-(Hydroxymethyl) acrylamide for radiation therapy. *Results in Physics*, 22, 103862.
  43. **Oglat, A. A.**, Alshipli, M., Sayah, M. A., Farhat, O. F., Ahmad, M. S., & Abuelsamen, A. (2021). Fabrication and characterization of epoxy resin-added *Rhizophora* spp. particleboards as phantom materials for computer tomography (CT) applications. *The Journal of Adhesion*, 1-18.
  - 44.

## Conferences

1. 6th International Conference On Solid State Science And Technology (ICSSST 2017). The paper title " Measuring The Acoustical Properties of Fluids and Solid Materials Via Dealing With A-SCAN (GAMPT) Ultrasonic" Date: 15/11/2017 Venue: Olive Trees Hotel, Penang.

2. 6th International Conference On Solid State Science And Technology (ICSSST 2017). The paper title " Acoustical and Physical Characteristic of a New Blood Mimicking Fluid Phantom " Date: 17/11/2017 Venue: Olive Trees Hotel, Penang.

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