

Maram S.K. Shbair Othman, MP

M.Sc. IMPCB Examination (P1), Certified Medical Physicist, IAEA Fellowship.

CURRICULUM VITAE

First Name: Maram S.K.

Marital Status: [REDACTED]

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ACADEMIC QUALIFICATIONS

University / Institute	Degrees	Degrees	Major Subjects	From - To
International center for Theoretical Physics ICTP	Advanced Master in Radiotherapy Radiation Medical Physics	San- Gerardo Monza Hospital Italy	Medical Physicist in Radiation therapy oncology 106 out of 110	2020- 2022
University of Jordan	Master's degree in Diagnostics Nuclear Physics	University of Jordan Hospital Jordan	Medical physicist in diagnostic Nuclear medicine 3.5 out of 4	2010- 2012
Alazhar -University -Gaza	Bachelor Degree in Physics	First Honor Degree in science Palestine	Physics 94.3 out of 100	2004- 2008

Professional Development:

- ❖ I Succeed *in IMPCB Examination (P1)* part 1 and accepted to part 2. In Radiotherapy Specialist.
Trieste, December 2021

International Scholarship and Awards:

- ❖ MEFOMP (Middle East Federation of Medical Physics) award
- ❖ Nominated and selected to ICTP and IAEA 'International Center for Theoretical Physics Research, Trieste University, Italy 2020' scholarship (IAEA Fellowship)
- ❖ Got DAAD-International Scholarship for excellent young scientist and researchers for graduate-studies 2010-2012.
- ❖ Got Palestinian High Ministry of education Scholarship for Excellent Undergraduate students 2004-2008

Main skills:

- ❖ Expert in searching and investigating information and data (research and developing skills R & D)
- ❖ Highly self-motivated personality

- ❖ Planning programs and scheduled work plans with necessary budgets.
- ❖ Documenting work process by Writing reports and frequent follow-up.
- ❖ Well organizing \ operating frequent events and exhibits for programs and projects.
- ❖ Effective communicating with focus group and stakeholders for applied projects.
- ❖ Excellent in using computer Office programs, Internet explorer, Photoshop Program.
- ❖ Excellent in searching and data collections throughout different resources
- ❖ Time management and teamwork skills
- ❖ Flexibility in team building, Training team members and applying leadership skills in effective communicating and critical thinking for problem solving.
- ❖ Well adapting with work requirements and environments by frequent reading and self-learning about new things, tools, Methods that can enhance and modify work outcomes.

PROFESSIONAL COURSES

Year Month	Course Description	Field	Place , Authority
2021 September	Raystation for Medical radiation therapy treatment planning: Raystation Pay-thCoding auto planning aspects	programming using Raystation with Python	Avanzo for technical solution and Raystation
2021 February	Monaco Treatment planning system	patient plan verification	San Gerardo hospital
2021 November	Dosisoft Epi-beam for pretreatment planning verification	patient plan verification	Dosisoft
2021 September - November	Mosaiq system for data registration and management		San Gerardo hospital
2020 June	● ImageJ software for image processing and analysis	Medical imaging	ICTP
2021 September	● MatLab software for image processing and analysis and data analysis	Medical imaging	ICTP
2021 May	● MatRad for dose measurement and biological relative effect	radiation therapy biological effect	CERN

calculation in x-ray and particle
radiation

2020
May

- R-for statistical data analysis

Programming

ICTP

2020
September

- Geant4 for medical application
entry level

Programming

ICTP

2020
July

- Paython entry level

Programming

ICTP

Thesis and research:

- My Thesis of Advanced Master in Radiotherapy was about: Title: feasibility of a-Si EPID characteristic response for VMAT/IMRT pretreatment verification in FF and FFF treatment beams. In my thesis I worked on MATLAB program and develop a code to process DICOM images that we obtain from EPID detector and analysis how the dose distributes within image detector. We discovered limitation in detector due to saturation effect which guide us to develop a home-made solution to solve the saturation effect in ELEKTA EPID detector.
- My Thesis of first M.SC degree was about: Quantitative of Renal Function Using 99m-Tc-DTPA: Validation of Gates' Method using Single-Sample Plasma method in Jordanian population, at University of Jordan Hospital with Dr. Abedelaltif Alsharief, MD Nuclear Medicine.
- My Graduated research was about: Nuclear Medicine: Positron Emitter Tomography, Dr. Hazem Falah Skaik, grade (Excellent). Bachelor of Physics/Medical Physics (2008), AL-Azhar University, Gaza, (94.2%) Excellent with First Honor Degree.

LANGUAGES

English proficiency test:

- I took English course qualification from university of Jordan 2012
- TOEFL PBT with an overall level 11.
- IELTS pre-test with an overall C2-level.
- Italy entry level

EMPLOYMENT RECORD

(9 years in university lecturing, Medical and Technical training)

2023-2024

Under-Recruitment as Medical Physicist in Al-Najah National Hospital, Nablus City, Palestine.

2023-2024

Under-Contract as Medical Physicist expert with Ministry of Health to establish and follow the initiation of first Radiotherapy Unit in Gaza strip.

2023-2024	Academic Lecturer , course Medical Physics for Medicine, Faculty of Medicine, Al-Israa University, Gaza city, Palestine.
2022- 2023	R & D in International education institute, British International school, Gaza city, Palestine.
2021 -2021	Medical physicist residency trainee, Monza hospital Italy
2016-2017	Soft skill trainer, Fulbright-US funded project Palestine Soft skills, and tutor in renewable energy startup incubator GRin with Natuf organization with Eng. Ezzeden Edwan, head of Engineering collage.
2016 -2017	Academic Lecturer, Palestinian Technique collage Palestine Physics courses 1+2 with Lab administrator task Eng. Ezzeden Edwan, head of Engineering collage.
2013.9-2015.08	Academic Lecturer, AUG Palestine Physics courses with advance courses in medical imaging and medical technology in radiotherapy, Medical laboratories and technician collage Prof. Naji Dahoudi, professor in material engineering.
2009.09-2008.9	university teaching assistant, AUG Palestine Teaching, lab tools administration and sorting, request tools and pricing under department.

Parental leave: 2017 July -2018 August

Articles and International conferences

4th -7th March 2022	Participate in “The fifth International Conference on Basic and Applied Sciences ICBAS5 Al-Azhar University Palestine
9th-11th October 2012	Participate in “The Second International Conference on Basic and Applied Sciences ICBAS2 Al-Azhar University Palestine
October 16th-19th 2008	Participate in; Nuclear Medicine: Positron Emitter Tomography (PET) at Safety methods in Radiation Protection, Nation Research Center. Palestine
October 13th-15th 2009	Physics Exhibition Days Al-Azhar University Palestine
October 7th-10th 2010	1st National Conference on Therapeutic & Diagnostic Medical Physics, AAPM-ISEP, King Hussein Cancer Center (KHCC). Jordan

Other Activities in Volunteering and science Activity in society:

2021 September	Cern-Workshop on MatRad application in medical physics
2020 September	ESOF2020 ICTP student volunteering representing.
2019 January	Palestinian Ministry of Health lead the establishment of Medical Physics units in the Human resources quarter.

Computer Skills

- ❖ ImageJ software for image processing and analysis
- ❖ MATLAB software for image processing and analysis and data analysis
- ❖ MatRad for dose measurement and biological relative effect calculation in x-ray and particle radiation
- ❖ R-for statistical data analysis
- ❖ Microsoft Word Good knowledge
- ❖ Excel Good knowledge
- ❖ Excel with Gantt module for project managements
- ❖ PowerPoint Good knowledge.

REFERENCES

In Italy:

Prof. Renata Longo,
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in Palestine:

- Dr. EzzedeinEdwan, Dean of professional Engineers department, Palestine Technical Colleaguer-albalah Mobile:00970595189775, website: <https://www.facebook.com/ezzeddine.edwan>

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- Dr. Naji Dahoudi, AUG University, Palestine. website: <https://www.facebook.com/naji.aldahoudi>
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