

CV



Personal Information:

Name: Omar Mohammad Saleh Adwan
Date and place of birth: Amman 29/12/1963
Nationality: Jordanian
Sex: Male
Status: Married
Religion: Islam

Education and Qualifications:

University / College	Place	Degree	Date
University of Jordan	Jordan	M.Sc. Physics	Aug. '87 – June '91
Moray House College of Education	Britain	High Diploma in Education	Jan. '89 – April '89
Yarmouk University	Jordan	B.Sc. Physics	Feb. '82 – Jun. '85

M.Sc. thesis title: Study of Fluorine in teeth enamel by using $^{19}F(p, \alpha_o)^{16}O$ nuclear reaction.

Working Experience:

Working Place	Location	Name of Employment	Date	Duration
University of Sharjah	Sharjah - UAE	Lecturer	April '98 - Now	25 Years
Al Sahwa Schools	Muscat – Oman	Science Teacher - Assistant Principal	Aug.'93 - April '98	5 Years
University of Jordan The Model School	Amman– Jordan	Teacher	Aug. 90 - Aug. '93	3 Years
University of Jordan Dept. of Physics	Amman– Jordan	Teaching Assistant	Sept. '87 - Jun. '90	3 Years
Ministry of Education	Amman– Jordan	Teacher	Sept.'87 – Aug. '90	3 Years
Mu'tah University Dept. of Natural Sc.	Karak – Jordan	Teaching Assistant	Sept.'85 – Sept. '87	2 Years

Courses Taught:

Course No.	Course Title
1430101	Astronomy and Space Sciences
1430106	Remedial Physics
1430115	Physics (1)
1430116	Physics (1) Laboratory
1430117	Physics (2)
1430118	Physics (2) Laboratory
1430107	General Physics for HS Lab
1430114	Physics for Medical Sciences Lab
0214286	Intermediate Physics Laboratory for Health Sciences

Courses:

- 1) *Online Training Courses in Central Laboratories Directorate at University of Sharjah, it includes: Central Lab Safety, Orientation to Lab Safety, Planning for Laboratory Emergencies, Using Fire Extinguishers, First Aid and Electrical Safety in the Laboratory .*
- 2) *ICDL (International Computer Driving License)*
- 3) *Assessment Workshops at University of Sharjah.*
- 4) *Blackboard ULTRA Summer Camp July 2022 for one week*

Publications:

- Prepared the hybrid lab manual of Physics for Medical Sciences Lab course in June 2022.
- Hussein Elmehdi, and Omar Adwan. Assessing community annoyance to traffic noise in residential-industrial mixed districts in the city of Sharjah, UAE, *inter.noise 2009, innovations in practical noise control.*

Conferences:

- 1) **The First International Conferences on Arabs, and Muslims' History of Sciences (24-27) March 2008, University of Sharjah, UAE.**
I submitted a paper in the conference (Al Khazinee), this paper with the cooperation of Dr. Bashir Suleiman (UOS).
- 2) **The First International Conferences on Arabs, and Muslims' History of Sciences (24-27) March 2008, University of Sharjah, UAE.**
Member of the organizing Committee.

- 3) **The fifth Astronomical Islamic Conference (22-24) March 2011, Amman-Jordan:**
- 4) **Nuclear & Renewable Energy Conference (3-5) April 2011, in University of Sharjah, UAE.**
- 5) **Second Sharjah Sciences Festival (11-12) May 2011, member of the organizing committee in University of Sharjah, UAE.**
- 6) **The Third Science Festival on (5-6) February 2014, University of Sharjah, UAE. I was member of the organizing committee – Head of the Registration and Reception Committee, member of the Exhibition Committee.**
- 7) **The Sixth Islamic Astronomical Conference (18-20) March 2014, Amman – Jordan**
I submitted a paper in the conference (Study of the knowledge of the students of University of Sharjah in Astronomy).
- 8) **I participated in the 13th Festival of Astronomy and Space Sciences in Constantine, Algeria (25-27) September 2014.**
- 9) **The Second International Conferences on Arabs, and Muslims' History of Sciences (8-11) December 2014, University of Sharjah, UAE. I Participated with paper.**
- 10) **The Second International Conferences on Arabs, and Muslims' History of Sciences (8-11) December 2014, University of Sharjah, UAE. Member of the organizing Committee.**
- 11) **The 11th Conference of Astronomy (8-11) Dec. 2014, University of Sharjah, UAE. Member of the organizing committee.**
- 12) **The 3rd International Conference on Arabs' and Muslims' History of Science, (5-7) Dec. 2017, University of Sharjah, UAE. I submitted a paper in the conference (The impact of Arabs and Muslims Scientists on Technology, Al Bauruni is an example)**
- 13) **The 3rd International Conference on Arabs and Muslims History of Sciences (5-7) Dec. 2017, University of Sharjah, UAE. Member of the organizing committee, responsibilities: Budget, Scientific Committee and coference program.**

- 14) **The 3rd International Conference on Arabs and Muslims History of Sciences (5-7) Dec. 2017**, University of Sharjah, UAE. Editing the proceeding book of the conference.
- 15) **The 1st Sharjah International Conference on Particle Physics Astrophysics & Cosmology (11-13) November 2018**, University of Sharjah, UAE . Member of the organizing committee.
- 16) **Sharjah International Conference on Physics of Advanced Material, (SICPAM – 2020) (23-25) March 2020**, University of Sharjah, UAE. ... etc
 Member of the organizing committee and due to Coronavirus (Covid -19 Pandemic) the conference is cancelled 10 days before the date of the opening after we had several meetings of organizing and I prepared the several things such as rollups, posters, brochures
- 17) **The 4th International Conference on the History of Arab and Muslim Sciences (4-6) April 2021**, University of Sharjah, UAE. **Member of the organizing committee – Conference Coordinator** responsibilities: Budget, Scientific Committee and conference program.
- 18) *I submitted paper titled (: Creative Approach in Teaching Physics Labs at University of Sharjah in Accordance of Covid-19 Challenges) in Sharjah International Conference on Education in Post COVID-19 (14-16) March 2022, University of Sharjah, UAE.*
- 19) *Member of the organizing committee of Sharjah International Conference on Education in Post COVID-19 (14-16) March 2022, University of Sharjah, UAE. Conference Coordinator responsibilities: Budget, Scientific Committee, and conference program*
- 20) *Member of the organizing committee of Sharjah International Conference on Physics of Advanced Material (SICPAM 2023) (25-27) April, 2023.*
- 21) *Conference: Member of the Organizing Committee of the Third Forum of Arab and Russian Universities (31 May - 1 June) 2023*

Activities:

- 1) *Astronomy Event, Participating in Solar Eclipse at SAASST on 25.10.2022*
- 2) *Coordinator of **Physics and Math Placement Tests** for several years **tell now 2021-2022**. This exam is an entrance exam for students who accepted in the College of Engineering, and also for College of Health Sciences, coordination includes:*
 - a- *Fixing the dates and the times for both Physics and Math placement tests, in 3 days. Where we have to do the arrangements for around 1000 students in Fall semester and around 400 students in Spring semester each year.*
 - b- *Preparing the online Physics Test.*
 - c- *Book the computer labs for doing Physics and Math tests.*
 - d- *Prepare the invigilators for both Physics and Math tests.*
 - e- *Announcing the results.*
- 3) *Member – Department of Applied Physics and Astronomy Examination Committee 2021-2022*
- 4) *Member – College of Sciences Examination Committee 2021-2022*
- 5) *Member – University of Sharjah Examination Committee 2021-2022*
- 6) ***Chair – College of Sciences, Schedules and Examination Committee for several years tell now 2020-2021.***
- 7) ***Chair – Department of Applied Physics and Astronomy, Schedules and Examination Committee for several years. I was a member of this committee since the academic year 2003-2004 tell now 2020-2021.***
- 8) ***Member of University of Sharjah Schedules and Examinations Committee 2017-2018.***
- 9) *Coordinator of **Physics, Math, Biology and Chemistry placement tests** in College of Sciences for the Nursing Students in College of Health Sciences in Fall 2019-2020, coordination includes:*
 - a- *Preparing the Physics Test*
 - b- *Book the exam rooms for Physics, Math, Biology and Chemistry tests.*
 - c- *Prepare the invigilators for all tests.*
 - d- *Announcing the results for all tests.*

10) **Updating the lab manuals of Physics 1 Lab, Physics 2 Lab and Physics for Medical Sciences Lab to be used for distance learning in spring 2019-2020 and the academic year 2020-2021, where we use an interactive simulation experiments.**

11) **I Published four experiments in PHET Interactive Simulation at University of Colorado, USA in Spring 2019-2020 , all approved, these are:**

<https://phet.colorado.edu/en/contributions/view/5591>

<https://phet.colorado.edu/en/contributions/view/5595>

<https://phet.colorado.edu/en/contributions/view/5617>

<https://phet.colorado.edu/en/contributions/view/5623>

12) **Preparing the manuals for Physics (1) Lab, Physics (2) Lab, Basic Physics Lab, General Physics for Health Sciences Lab, Physics for Medical Sciences Lab, and Intermediate Physics Lab for Health Sciences. Preparing the material of new course (Astronomy and Space Sciences).**

13) **Updating Astronomy and Space Sciences course content.**

14) **I attended a workshop on (Radiation Pollution, Risks and Protection Measures) held in the state of Kuwait during (14-18) December 2002.**

15) **Physics Olympiad of UAE schools (April 2007, April 2008, and April 2009) tasks are:**

- a. Preparing the experiments of the Olympiad.
- b. Invigilation the practical work of the Olympiad
- c. Evaluate the reports.
- d. Display a power point presentation about Applied Physics Department to all competitors.

16) **Radiation Workshops:**

As a lecturer in Department of Applied Physics and astronomy, University of Sharjah, I run the practical part of several workshops in radiation, safety and measurement, which organized by the department of continuity education, as shown below:

- a. *Radiation Safety Workshop, (15-18) December 2008*
- b. *Radiation Safety Workshop, (15-18) March 2009*
- c. *Radiation Safety Workshop, (1-5) March 2015*

- d. *Radiation Safety Workshop, (25-29) October 2015*
- e. *Radiation Safety Workshop, (24-27) October 2016*
- f. *Radiation Safety Workshop, (22-25) May 2017*
- g. *Radiation Safety Workshop, (5-8) November 2017*
- h. *Radiation Safety Workshop, (28-31) January 2018*
- i. *Radiation Safety Workshop, (19-22) March 2018*
- j. *Radiation Safety Workshop, (6-9) May 2018*
- k. *Radiation Safety Workshop, (2-5) July 2018*
- l. *Radiation Safety Workshop, (17-20) September 2018*
- m. *Radiation Safety Workshop,(15-18) July 2019*
- n. *Radiation Safety Workshop, (14-17) October 2019*
- o. *Radiation Safety Workshop,(26-30) January 2020*
- p. *Radiation Safety Workshop,(27-30) September 2021*
- q. *Radiation Safety Workshop,(10-13) January 2022*
- r. *Radiation Safety Workshop,*

17) XRF Workshop (28-30) September 2009:

I attended the workshop in XRF in the National X-ray Fluorescence Laboratory at the University of Sharjah in (28-30) September 2009 during the installation of the new machine.

18) VLF Workshop (22-24) March 2010:

I attended the workshop in VLF in the Laboratory at the University of Sharjah in (22-24) March 2010 during the installation of the new coming machine. I was a member of the organizing committee.

19) XRF fellowship in Canada 30, May, 2010 to 25, June, 2010:

I attended an XRF course in Canada in the University of Western Ontario, Canada. During the period of time 30, May, 2010 to 25, June, 2010.

20) Operating the Planetarium Workshop (15-19) February 2015:

I attended a workshop in operating the Planetarium of Sharjah Center for Astronomy and Space Sciences (SCASS).

21) Translation the experiments and the activities in Sharjah Center for Astronomy and Space Sciences (SCASS) (June – September) 2014:

I participated with Dr. Hamid Al Naimiy in translating the Experiments and the activities of the Exhibition of Sharjah Center for Astronomy and Space Sciences (SCASS).

22) *I participated in the UAE Teachers' Education program in University of Sharjah - Khor Fakan branch - UAE, January 2014.*

23) *I participated in the UAE Teachers' Education program in University of Sharjah - Khor Fakan branch - UAE, March 2014 .*

24) **Member of Petroleum Geosciences and Remote Sensing (PGRS) Committee – Undergraduate New Program (December 2013- February 2015).**

25) **Member of the Committee of Master program in GIS & Remote sensing (2017-2019)**

26) ***Judging science projects: Intel Science Competition-Arab World 2012***

27) ***Judging Schools science projects:***

a- Wesgreen International High School, 9 November 9, 2015

b- Wesgreen International School, 17 January 2017

28) **Visiting many schools in UAE to demonstrate physics and science, and to do some physics show.**

School Name	Activity	Date
Al Nouf Secondary School, Sharjah - UAE	Fun Physics Show	2005
Al waha Secondary School, Sharjah - UAE	Astronomy Seminar	2006
Al Ghubaibah Secondary School, Sharjah - UAE	Fun Physics Show	2006
Al Nouf Secondary School, Sharjah - UAE	Fun Physics Show	2006
Al Raya Secondary School – DUBAI -UAE	Fun Physics Show	4 January 2011
Al Sofoooh Secondary School – Dubai - UAE	Annoyance	26, January 2011
Wes Green School – Sharjah - UAE	Project Judgement	20 March 2011
American International School, Dubai	Physics Show	February 2013
Al Salam School – Al Barsha – Dubai - UAE	Fun Physics Show	11 May 2016

Abu Obaidah Bin Al Jarrah School	Explain the needs of Petroleum, Geosciences and Remote Sensing, new Program	5 March 2017
International School of Creative Science – Sharjah - UAE	Half Life Time Experiment in University of Sharjah Labs	8 March 2017
American International School – Dubai - UAE	Conservation of Linear Momentum Experiment in University of Sharjah Labs	22 September 2016
School visit to DAPA labs on		25 September 2018
International School of Creative Sciences	Half Life Time Experiment Experiment in University of Sharjah Labs	8 March 2017
School Visit	Conservation of Linear Momentum Experiment in University of Sharjah Labs	25 September 2018
Abu Obaidah Bin Al Jarrah School	Explain the needs of Petroleum, Geosciences and Remote Sensing, new Program	5 March 2017
Emirates National School, Sharjah	Job opportunities for physicists in University of Sharjah Labs	20 Jan 2020

29) Think Science Judging including the initial judging:

- a- *Think Science Judging, April 2013*
- b- *Think Science Judging, (20-22) April 2014*
- c- *Think Science Judging, (5-7) May 2015*
- d- *Think Science Judging, (17-19) April 2016*
- e- *Think Science Judging, (18-20) April 2017 (Chief Judge)*
- f- *Think Science Judging, (16-18) April 2018*

g- Think Science Judging, in 6 weeks in row in all over the Emirates (16 February to 21 March) 2019

30) Think Science Exhibition Coordinator in University of Sharjah:

- a- Coordinator of Think Sciences, (20-22) April 2014*
- b- Coordinator of Think Sciences, (5-7) May 2015*
- c- Coordinator of Think Sciences, (17-19) April 2016*
- d- Coordinator of Think Sciences, (18-20) April 2017*
- e- Coordinator of Think Sciences, (16-18) April 2018*
- f- Coordinator of Think Sciences, in 6 weeks in row in all over the Emirates (16 February to 21 March) 2019*
- g- Coordinator of Think Sciences 2020,*
(I did some arrangement for the participation in Think Science Exhibition but I stopped working because they cancelled the event due to Coronavirus (Covid-19) pandemic).

31) Seminars and Workshops that I gave:

Title	Place	Date	Remarks
Astronomy Facts 1	Al Muntada Al Islami, Sharjah, UAE	7 April 2015	
Astronomy Facts 2	Al Muntada Al Islami, Sharjah, UAE	8 April 2015	
Planetarium Show (Solar System)	Planetarium - Sharjah Center for Astronomy and Space Sciences (SCASS)	June 2015	
Astronomy in the Holly Quran	Science Museum, Sharjah, UAE	24 October 2015	
Astronomical Facts in the Holly Quran	Sharjah Center for Astronomy and Space Sciences (SCASS)	9 April 2016	
New Arabic Months and Islamic Calendar (Almatalee Wa Al Taqaweem)	Al Muntada Al Islami, Sharjah, UAE	18 October 2016 & 27 October 2016	Two Day Workshop,
Introduction to	Sharjah Expo, Sharjah,	21 Nov.	Innovation

Astronomy	UAE	2016	Week
Teaching Labs Workshop in The Presence of Corona Pandemic.	Online	1 February 2021	

32) *I participated in the preparation the file of **UOS bylaws** within a committee led by Dr. Hussein Elmehdi, Dean of Academic Support Services, in Dec. 2014*

33) **I participated in PechaKucha program in ScieFest Dubai on Wednesday 7 October, 2015**, the title of the talk is Astronomy and Space Sciences and its relationship with Physics

34) **Planetarium Visit:**

Each semester I use to visit the planetarium in Sharjah Academy for Astronomy and Space Sciences Technology (SAASST) - (SCASS) with my Astronomy course students.

35) **Astronomy Night Observations:**

Each semester I arrange Astronomy night observations to my Astronomy course students in Sharjah Academy for Astronomy and Space Sciences Technology (SAASST) – (SCASS).

36) **Revising the papers submitted to the conference Arab ACRAO 35th Annual conference** (18-21) April 2016.

37) **(Astronomy Night) Watching the Super Moon** Activity on Monday 14 Nov. 2016 by using three Telescopes, (more than 100 students participated).

38) **TV interview with Sharjah TV (August 2017)** to talk about the *Petroleum, Geosciences and Remote Sensing Program*

39) *I Participated in **Explore your Future, Science Day (20 & 21) November 2017**, College of Sciences.*

40) *I Participated in **Explore your Future, Science Day 19 November 2018**, College of Sciences.*

- 41) *I Participated in Flipped classroom workshop (26-28) March 2018*
- 42) **Safety Online Training Course in the Central Labs Directorate at University of Sharjah 15 May 2019, including:**
- a. Central Labs Safety Training Course
 - b. Orientation to Laboratory Safety
 - c. Planning for Laboratory Emergencies
 - d. Using Fire Extinguishers
 - e. First Aid
 - f. Electrical Safety in the Laborator
- 43) *I Participate in Science Event (Mohammed Bin Rashid Space Centre), 22Jan 2019.*
- 44) **Uos 11th Annual Open Day, High School Visits the University of Sharjah, (23-27) April 2019.**
- 45) **Training course of (Make the future with ISS and go to the Planetary Exploration) UAE-Japan (24-26) December 2019**
Three Days Workshop, Talks, Field Trip and Observation of Partial Solar Eclipse.
- 46) **Office Ergonomics Workshop, 17 February, 2020.**
- 47) **I participated in the 15th Gulf Astronomy (27-29) September 2019**
- 48) **Physics Astronomy Night , 7 November 2019, arranged by DAPA.**
- 49) **I attended workshop titled: Rescue Your Back, 23 January 2020**
- 50) **Leader of College of Sciences in the Sports Day, 25 February 2020**
We won the first place in Basket Ball Competition among all colleges participated
- 51) **2 hours training course titled: the successful online exams, 13 Oct. 2020**

- 52) **Attending Online Exams Training Workshop**, Spring 2020-2021
- 53) **Attending The Second Camera Training Course**, 10 March 2021.
- 54) **Attending The Exit of the Oil Age - Research Café Talk**, 6 December 2020.
- 55) **Participating in the Workplace Health, Safety and Wellbeing – Sustainability Circle**, September 2020 – June 2021
- 56) **Advising High School Students**, Fall 2020-2021.
- 57) **Attending Physical Technique in Archeology, Sharjah Archeology Authority – Govt. of Sharjah**, 22
- 58) **Attending Protecting Satellite Images Against Attacks using AI and Image Processing Techniques**, The Emirati Society of GIS and Remote Sensing and Mohammed Bin Rashed Space Center, 20 May 2021
- 59) **Participant - The first virtual Sharjah Forum for Parents' Councils in the Emirate of Sharjah**, Government of Sharjah, Sharjah Education Council, 1 July 2020
- 60) **Attending - (Bridging the Gap between Basic and Clinical Research) Research Café Talk**, 2 May 2021
- 61) **Participating in the University of Sharjah Open Day**, 25 May 2021
- 62) **Leading College of Sciences Team in the University of Sharjah Sport Day**, March 2021
- 63) **Participating in the Open Day**, May 2022
- 64) **Participating in Brainstorming Workshop in Sustainability Circle**, 17 June 2021
- 65) **Participating in College of Science open day (25-26) May 2021**
- 66) **Hybrid Hands-on Training 25th August 2021**
- 67) **Active Membership in Mohammed Bin Rashid Space Center 2021-2022**
- 68) **Attending SciVal Researcher Academy in Campus on 15th September 2022**
- 69) **Respondus Version 4.0 Training Course on 22nd September 2021**
- 70) **Attending Research Café' Talk (Leadership for the Great Good) on 17th October 2021**

- 71) **Attending the International Workshop on Sustainable Energy and Power System on 10th October 2021**
- 72) **Attending Hybrid Learning: Hands-on Training on 31st August 2021**
- 73) **Attending Research Funding Opportunities – Grants and Guidelines on 28th October 2021**
- 74) **Participate in invigilation of the On-Campus Examinations, which were the first time that we did on-campus during Covid-19 pandemic**
- 75) **Attending the 3rd Annual Strategic Conference on 9th December 2021**
- 76) **Attending the Registration Department – Training in Fall 2021-2022**
- 77) **Attending the Research Café' Talk (Work-Life Balance in Academia: Fact or Friction) on 21st February 2022**
- 78) **Attending the Tracing Star Formation and Stellar Feedback in Numerical Simulations on 10th May 2022**
- 79) **Participated as instructor in the Diploma of Astronomy and Space Sciences Technology, (June & July) 2022**
- 80) **Attending the Online Course Design, organized by Prof. Tara Ross, the Chief Learning Officer / Centreity and Dr. Hussein Elmehdi / UoS**
- 81) **Certificate of Appreciation from the Dean of College of Sciences (Great Effort during the Academic Year 2021-2022)**
- 82) **Attending the High Performance Computing Workshop on May 23, 2022**
- 83) **Chair – College of Sciences, Schedules and Examination Committee for the academic year 2022-2023**
- 84) **Member – Department of Applied Physics and Astronomy, Schedules and Examination Committee for the academic year 2022-2023**
- 85) **Attending Webinar, Multisource Remote Sensing-based Participation Estimation over the UAE on September 7, 2022 organized by Mohammed Bin Rashid Space Centre.**
- 86) **Training Course, Advanced practices for evaluation in the teaching process (ممارسات متقدمة للتقويم في عملية التدريس) on October 5, 2022**
- 87) **Training Course, Design Online Course (IDEL), Design Sprint for one month in July 2022 (Astronomy Slides)**
- 88) **Attending Seminar, Protecting your intellectual property and generating revenues on Monday, October 17, 2022**
- 89) **Training course, Black Board Collaborate Ultra for 5 days in July 2022.**
- 90) **Delivering live lecture using Black Board Collaborate Ultra on August 28, 2022**
- 91) **EmSAT Equivalent Exam Committee (College of Sciences – Department of Applied Physics and astronomy) in Fall 2022-2023, member**
- 92) **Attending Webinar, The Usage of Cloud Technology in GeoAnalytics on February 22, 2023 organized by Mohammed Bin Rashid Space Centre.**

- 93) **Attending Seminar**, Achieve Physics - Macmillan Learning Workshop on 26 February 2023
- 94) **Attending Webinar**, The National Space Science and Technology Center on April 5, 2023 organized by Mohammed Bin Rashid Space Centre
- 95) **Training Course**, MASTERCLASSES 14 3 2023
- 96) **Participating in the University of Sharjah Annual Open Day** - May 2023
- 97)

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