

# Walaa Al-Tamimi

## Personal Information



**Name:** Walaa Rehab AlTamimi  
**Nationality:** Jordanian  
**Date and Place of Birth:** 09-06-1985.Hebron  
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## Education

<b>2012– 2017</b>	<b>McGill University</b> P.h.D Degree in Physics,	<b>Montreal, Canada</b>
<b>Thesis Title:</b>	Collinear Laser Spectroscopy on Exotic Isotopes of Rubidium and Gallium.	
<b>2007– 2011</b>	<b>Yarmouk University</b> Master Degree in Physics,	<b>Irbid, Jordan</b>
<b>Thesis Title:</b>	Detection of Heavy Metal Ions In Aqueous Solutions Using UV-Spectrophotometer.	
<b>2003 – 2007</b>	<b>Yarmouk University</b> Bachelor Degree in Physics,	<b>Irbid, Jordan</b>
<b>2001 – 2003</b>	<b>Al-Mazar Secondary School for girls</b> High School, Scientific Stream, AGP: 84, 2	<b>Irbid, Jordan</b>

## **Work Experience**

Assistant professor at the University Of Jordan, Amman .Jordan (2019-present)

Full time lecturer at the University Of Jordan, Amman .Jordan (2017-2019)

Teaching assistant at McGill University, Montreal, Canada as a lab assistant and online tutoring for General Physics courses ( 2012/2013).

Teaching assistant at the University Of Jordan, Amman .Jordan as follows:

- A) Summer semester 2011/2012, physics 111.
- B) First semester 2011/2012, physics 111, physics 112.

Lab instructor at the physics department at Yarmouk University As follows:

- A) First semester 2007/2008, Physics lab105.
- B) Second semester 2007/2008, Physics lab105.
- C) Summer semester 2007/2008, Physics lab 105.
- D) First semester 2008/2009, Physics lab105.
- E) Second semester 2008/2009, Physics lab105.
- F) Summer semester 2008/2009, Physics lab 105.
- G) First semester 2009/2010, Physics lab105.

Summer part time job- student research assistant to work in High Tc superconductors with nanoparticles at J.U.S.T. University.

## **RESEARCH INTERESTS**

### **Current research interest:**

Nuclear Radiation, Radiation shielding, Gamma spectroscopy, radioactive isotopes, nanofillers, Detectors, simulations and applications of nuclear physics

Nuclear structure, laser spectroscopy, photonics, nuclear spin and nuclear moments.

### **Other research interest:**

Detection of Heavy Metal ions In Aqueous Solutions Using UV-Spectrophotometer, Environmental physics. Photodynamic therapy (PDT) and Medical Biophysics.

### **International collaborations**

A member of the Laser spectroscopy group at Canada's particle accelerator centre TRIUMF center, Vancouver. Canada.

<https://www.triumf.ca/node/355/laser-spectroscopy>

### **HONORS, AWARDS, AND SCHOLARSHIPS**

Awarded a full scholarship from the Natural Sciences and Engineering Research Council of Canada (NSERC).2015-2016.

Awarded a full scholarship from the University of Jordan for the PHD degree in Nuclear physics 2011/2012 .Amman, Jordan.

Awarded a full scholarship from the University of Jordan for the PHD degree in Nuclear physics 2011/2012 .Amman, Jordan.

The first-place student among the students who graduated in the same academic year of the 2010 M.Sc.Physics class. Yarmouk University. Irbid, Jordan.

The first-place student among the 57 students who graduated in the same academic year of the 2007 B.Sc.Physics class. Yarmouk University. Irbid, Jordan.

The award for first-place student of B. Sc. Physics from Jordan Youth Corporation, Jordan.

The award for first-place student of the 2003 B. Sc. Physics class. Yarmouk University. Irbid, Jordan.

The award for first-place student of the 2002 B. Sc. Physics class. Yarmouk

University. Irbid, Jordan.

The Ministry of Higher Education and Scientific Research competitive Scholarship for the B. Sc. degree in Physics. 2001- 2002.

Placed on the Honor List of the Dean of The Faculty of Science (Yarmouk University. Irbid, Jordan) three times during 2003-2007.

## Languages

- Arabic: fluent in reading, Writing, Listening, and speaking (*Native Language*).
- English: fluent in reading, Writing, Listening, and speaking (*The language of instruction during bachelor and master program* )

## Taught Courses

Nuclear physics.

General Physics 1 & 2.

General physics for computer sciences Students.

General physics for medical and dentistry students.

Practical physics 1&2 .

Practical physics 4 &5.

Practical Physics for Dentistry students.

Practical Physics for Biological Sciences Students.

Supervising undergraduate students graduation projects

## Publications

Exploration of physical and optical properties of ZnO nanopowders filled with polydimethylsiloxane (PDMS) for radiation shielding applications. Simulation and theoretical study.(2022)

M.W. Aladailah ,O.L. Tashlykov a T.P. Volozheninov a, D.O. Kaskov a, K.S. Iuzbashieva a,Rama Al-Abed b, Abuzer Acikgoz c, Nuri Yorulmaz d, Mehmet Murat Yas ar e, Walaa Al-Tamimi ,Marwan Alshipli .Optical Materials 134 (2022) 113197.

Performance, Measurements and Potential Radiological Risks of Natural Radioactivity in Cements Used in Jordan (2021).

Manal Jamal Abdallah , Walaa Rehab Al Tamimi , Ahmed Hamed El-Sayed SALAMA and Sajedah Mohammad Alameer. Jordan Journal of Civil Engineering, Volume 16, No. 1, 2022

Internal Dosimetry Assessment for Drinking the Groundwater of the Disi Aquifer (2020)

O. Nusaira , W. Al-Tamimi , and O. Al-Qudah

<https://arxiv.org/ftp/arxiv/papers/2008/2008.03434.pdf>

The Collinear Fast Beam laser Spectroscopy (CFBS) experiment at TRIUMF

A.Voss, T.J.Procter, O.Shelbaya, P.Amadruz, F.Buchinger, J.Crawford, S.Daviel, E.Mané, M.R.Pearson, W. Al-Tamimi

Nucl. Instrum. Meth. A 811 (2016), 57

Nuclear moments and charge radii of neutron-deficient francium isotopes and isomers

A. Voss, F. Buchinger, B. Cheal, J.E. Crawford, J. Dilling, M. Kartelainen, A.A. Kwiatkowski, A. Leary, C.D.P. Levy, F. Mooshammer, M.L. Ojeda, M.R. Pearson, T.J. Procter and W. Al Tamimi

Phys. Rev. C 91 (2015), 044307

Direct observation of an isomeric state in  $^{98}\text{Rb}$  and nuclear properties of exotic rubidium isotopes measured by laser spectroscopy

T.J. Procter, J.A. Behr, J. Billowes, F. Buchiner, B. Cheal, J.E. Crawford, J. Dilling, A.B. Garnsworthy, A. Leary, C.D. Levy, E. Mané, M.R. Pearson, O. Shelbaya, M. Stolz, W. Al Tamimi and A. Voss  
Eur. Phys. J. A 51 (2015), 23