

## Personal data

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## Education

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**2010–2014** **Doctorate (Ph.D.), Theoretical Physics, Cairo University, Egypt**  
**Thesis title:** "Calculations of the cross sections for stable and exotic light nuclei". **Advisor:** Prof. Dr. M. Y. H. Farag. **Examiners:** Prof. Dr. V. K. Lukyanov, *JINR, Dubna, Russia*, and Prof. Dr. Angela Bonaccorso, *INFN, Pisa, Italy*. Best Phd thesis award in Faculty of Science.  
**2006–2009** **Master (M.Sc.), Theoretical Physics, Cairo University, Egypt**  
**Thesis title:** "Scattering of halo nuclei". **Advisor:** Prof. M. Y. M. Hassan. **Examiner:** Prof. Dr. Angela Bonaccorso, *INFN, Pisa, Italy*. Best master thesis award in Faculty of Science.  
**Grade of Preliminary courses (2006–2007):** Distinction with First Class Honors.  
**2000–2004** **Bachelor's degree (B.Sc.), Physics, Cairo University, Egypt**  
Distinction with First Class Honors.

## Work Experience

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**2020– Now** **Researcher**, Heavy ion Laboratory, University of Warsaw, *02-093, Warsaw, Poland*  
**2018– 2020** **Assistant Professor**, Department of Alternative Energy Technology, Faculty of Engineering, Philadelphia University, *Amman, Jordan* (IIE-SRF fellowship).  
**2015– Now** **Assistant Professor** of Theoretical Nuclear Physics, Department of Physics, Faculty of Applied Science, Taiz University, Yemen.  
**2015– 2017** **Assistant Professor** of Physics, Faculty of Engineering, Hodeidah University, Yemen.  
**2011– 2014** **Graduate research assistant**, PhD study, Physics Department, Cairo University, Egypt  
**2010– 2011** **Lecturer**, Faculty of Applied Science, Taiz University, *Taiz, Yemen*.  
**2007– 2009** **Graduate research assistant**, Master study, Physics Department, Cairo University, Egypt  
**2005–2006** **Laboratory Technician**, National Atomic Energy Commission, *Sana'a, Yemen*.

## Skills

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**Languages** Arabic (native), English.  
**Computer** ICDL, Windows, Linux, Ms Office, LaTeX, Mathematica, FORTRAN, C++.  
**Research** Calculations, plotting, analyzing, writing, publishing, reviewer for international journals  
**Internet** Management of many scientific sites and pages on the internet and social media.  
**Teaching** Management of quality assurance, writing course descriptions, supervising and evaluating of graduation projects, taking many training courses on teaching skills of new education philosophy.

## Research Interests

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- Nuclear reaction theories
- Structure and dynamics of exotic nuclei
- Development of an energy-dependent microscopic optical potential.

## Teaching Experience (in Ten Arabian Universities)

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**Physics** General Physics I, General Physics II, Applied Physics, Medical Physics.  
**Mechanics** Quantum Mechanics, Fluid Mechanics, Thermodynamics, Engineering Mechanics.  
**Energy** Energy Conversion and Efficiency, Renewable Energy, Energy and Environment.  
**Others** Nuclear Chemistry, Research Methods, Statistics

## Awards and Honors

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- NAWA Scholarship grant, Heavy ion Laboratory, University of Warsaw, Warsaw, Poland, 2020.
- IIE-SRF Fellowship award (*The Institute of International Education-Scholar Rescue Fund*) in partnership with Philadelphia University, Jordan, 2018.
- The young scientists grant to participate in the 25th International Nuclear Physics Conference (INPC13), Firenze (Italy) on 2-7 June 2013.
- Best master thesis award in Faculty of Science for the year 2009, Cairo University, 2010.
- Distinction with First Class Honors for preliminary courses of master 2007.
- Faculty of science award for the best bachelor student in the faculty, Cairo University, 2004
- Prof. Dr. Mahmoud Mokhtar medal for the best bachelor student in the physics department, Cairo University, Egypt, 2004.
- Schlumberger Limited Company award for the best students in Faculty of Science, Cairo University, 2003
- Financial support from Ministry of Higher Education and Scientific Research (in Yemen) to study Bachelor, Master and PhD at Cairo University, Egypt, in the period 2000-2014

## Publications

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### Papers

- 1- **H.M. Maridi**, “Energy dependence and surface contribution of the nucleon-nucleus optical potential”, **Bull. Russ. Acad. Sci. Phys.** **84**, 473 (2020).
- 2- **H.M. Maridi**, “Energy dependence and surface contribution of the optical potential for nucleon-nucleus scattering at energies up to 1 GeV”, **Phys. Rev. C** **100**, 014613 (2019).
- 3- **H.M. Maridi**, “Proton scattering of helium isotopes using an energy-dependent folded potential”, **AIP Conf. Proc.** **1976**, 020004 (2018).
- 4- **H.M. Maridi**, M.Y.H. Farag, and E.H. Esmael, “Energy-dependent microscopic optical potential for  $p+{}^9\text{Be}$  elastic scattering”, **AIP Conf. Proc.** **1742**, 030011 (2016).
- 5- **H.M. Maridi**, M.Y.H. Farag, and E.H. Esmael, “Analysis of proton scattering of stable and exotic light nuclei using an energy-dependent microscopic optical potential”, **Eur. Phys. J. WoC** **107**, 08007 (2016).
- 6- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Analysis of proton- ${}^{9,10,11,12}\text{Be}$  scattering using an energy, density-, and isospin-dependent microscopic optical potential”, **Phys. Rev. C** **90**, 034615 (2014).
- 7- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Energy-dependent microscopic optical potential for scattering of nucleons on light nuclei”, **Eur. Phys. J. A** **50**, 106 (2014).
- 8- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Microscopic study on proton elastic scattering of helium and lithium isotopes at energy range up to 160 MeV/nucleon”, **Eur. Phys. J. WoC** **66**, 03025 (2014).
- 9- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic interaction of protons with stable and exotic light nuclei”, **Phys. Rev. C** **88**, 064602 (2013).
- 10- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic Microscopic study on proton elastic scattering of light exotic nuclei at energies below than 100 MeV/nucleon”, **Eur. Phys. J. A** **48**, 154 (2012).
- 11- M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic scattering and breakup effect analysis of  ${}^{11}\text{Be}+{}^{12}\text{C}$  at 38.4 MeV/nucleon”, **Phys. Rev. C** **79**, 064608 (2009).
- 12- M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Microscopic model analysis of  ${}^{11}\text{Li}+p$  elastic scattering at 62, 68.4, and 75 MeV/nucleon”, **Phys. Rev. C** **79**, 014612 (2009).

### Books

- 1- **H. M. Maridi**, “Scattering of halo nuclei”, LAP Lambert Academic Publishing, 2013. ISBN: 9783659421112

### Lecture notes

- 1- “Environmental Impacts of Energy”, 1<sup>st</sup> edition, 2019. <https://doi.org/10.13140/RG.2.2.34805.22246>
- 2- “Energy Conversion and Efficiency”, 1<sup>st</sup> edition, 2019. <https://doi.org/10.13140/RG.2.2.26115.45606>
- 3- “Medical Physics (Lectures in general physics for medical sciences students)”, 2<sup>nd</sup> edition, 2018. <https://doi.org/10.13140/RG.2.2.11965.82400>
- 4- “Lecture notes on Thermodynamics”, 1<sup>st</sup> edition, 2018. <https://doi.org/10.13140/RG.2.2.10497.81763>

- 5- “General Physics for Sciences and Engineering Faculties”, 2<sup>nd</sup> edition, **2017**.  
<https://doi.org/10.13140/RG.2.2.19783.04004>
- 6- “General Physics 1 (Heat and Mechanics)”, 2<sup>nd</sup> edition, **2017**.  
<https://doi.org/10.13140/RG.2.2.10345.85604>
- 7- “General Physics 2 (Electricity, Magnetism, Optics, and Modern Physics)”, 2<sup>nd</sup> edition, **2017**.  
<https://doi.org/10.13140/RG.2.2.27123.07202>
- 8- “General Physics for Sciences and Engineering Faculties”, 2<sup>nd</sup> edition, **2017**, in Arabic.  
<https://doi.org/10.13140/RG.2.2.17979.36644>
- 9- “Nuclear and Radiation Chemistry”, 1<sup>st</sup> edition, **2017**, in Arabic.  
<https://doi.org/10.13140/RG.2.2.23641.67683>
- 10- “General Physics 2 (Electricity and Magnetism)”, 1<sup>st</sup> edition, **2016**, in Arabic.  
<https://doi.org/10.13140/RG.2.2.11268.48006>

## Workshops and Conferences

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- 1- Organize the Workshop “Brochures on Situation and Future of Energy in Jordan”, *Philadelphia University, Jordan*, 16 Jan 2020.
- 2- Oral presentation and paper in the LXIX International Conference "Nucleus-2019" on Nuclear Spectroscopy and Nuclear Structure, 1-5 July 2019, Dubna, Russia.
- 3- International Meeting “Energy Security in the Middle East: Geo-politics, Security Challenges and Sustainable Supplies, by the Arab Institute for Security Studies (ACSIS), with Konrad Adenauer Foundation and the Center for NATO Studies, 20 Jun 2019, Amman, Jordan
- 4- Organize “Research Workshop on Environmental Impacts of Energy”, *Philadelphia University, Jordan*, 10-17 Apr 2019, Coordinator of the workshop.
- 5- Organize and present lectures in the workshop “Using LATEX programming for writing the scientific publications”, *Philadelphia University, Jordan*, 18 Feb 2019, Coordinator of the workshop.
- 6- Organize “Research Workshop on Energy Resources, Descriptive and Statistical Studies”, *Philadelphia University, Jordan*, 2-19 Dec 2018, Coordinator of the workshop.
- 7- The 6th MEDENER International Conference on Energy Transition in the Euro – Mediterranean Region, Energy Efficiency and Energy Price, 04 Oct 2018, *Amman, Jordan*
- 8- The Sixth Saudi International Meeting on Frontiers of Physics (SIMFP2018), *Gizan, Saudi Arabia*, 27 Feb - 1 Mar 2018. The conference paper is published.
- 9- Organize “Research Workshop for Applications of Physics in Engineering”, *British University in Yemen, Sana’a, Yemen*, 3-19 Feb 2018, Coordinator of the workshop.
- 10- Organize “The Research Workshop for Applications of Physics in Medical Sciences”, *Al-Nasser University, Sana’a, Yemen*, 10-21 Dec 2017, Coordinator of the meeting.
- 11- Organize “The Student Research Meeting for Applications of Nuclear and Solar Energy”, *Hodeidah University, Hodeidah, Yemen*, 22-24 Apr 2017, Coordinator of the meeting.
- 12- Organize “The Student Research Meeting for Applications of Physics in Architecture”, *University of Science & Technology, Hodeidah, Yemen*, 3 Jan 2017, meeting coordinator.
- 13- The Fifth Saudi International Meeting on Frontiers of Physics (SIMFP2016), *Gizan, Saudi Arabia*, 16 - 18 Feb 2016. The conference paper is published.
- 14- International Conference on Nuclear Structure and Related Topics (NSRT15), *Dubna, Russia*, on 14-18 July 2015. The conference paper is published.
- 15- The 25th International Nuclear Physics Conference (INPC13), *Firenze, Italy*, on 2-7 June 2013. The conference paper is published.
- 16- NSPA Workshop on Radiation Protection, *Cairo University*, 15 Jan-18 Feb 2012.
- 17- The Second International Workshop on Nuclear Studies and Peaceful Applications "Medical Physics and Radiation Protection", *Cairo University*, 11-13 Jan 2011.
- 18- The First International Workshop on Nuclear Studies and Peaceful Applications "Reform of Graduate Studies in Nuclear Sciences", *Cairo University*, 17-19 Mar 2009.