





## Personal Information

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**Name** Hasan Maridi  
**Address**  University of Manchester, M13 9PL Manchester, UK  
**Telephone**  +441612754235  
**Email**  [hasan.maridi@manchester.ac.uk](mailto:hasan.maridi@manchester.ac.uk); [h.maridi@gmail.com](mailto:h.maridi@gmail.com)  
**Links**  [Researchgate](#) | [Orcid](#) | [LinkedIn](#) | [Personal Website](#)

## Highlights

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- A research experience for 9 years in theoretical models of the nuclear reactions.
- A proved record of 20 publications in recognized international peer-reviewed journals.
- Communication skills with active collaborations, invited talks, & international-conference presentations.
- An extensive experience in teaching and tutoring in 13 Universities in four countries.
- Supervision and refereeing of Mphy and graduated projects in several universities.

## Education

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**2010-2014** **Ph.D. in Theoretical Physics** ([Thesis](#)), *Cairo University, Egypt*  
**2006-2009** **Master (M.Sc.) in Theoretical Physics** ([Thesis](#)), with Distinction *Cairo University, Egypt*  
**2000-2004** **Bachelor (B.Sc.) in Physics**, Distinction with First Class Honors. *Cairo University, Egypt*

## Work Experience

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**2023-Now** **Research Fellow**, Dep. of Physics & Astronomy, *University of Manchester, UK*  
**2020-2022** **Research Fellow**, Heavy ion Laboratory, *University of Warsaw, Poland*  
**2018-2020** **Visiting Assistant Professor**, *Philadelphia University, Jordan*  
**2015-2018** **Assistant Professor**, Dep. of Physics, *Taiz University, Yemen*  
**2015-2017** **Assistant Professor**, Faculty of Engineering, *Taiz University, Yemen*  
**2010-2015** **Lecturer**, Dep. of Physics, *Taiz University, Yemen*  
**2005-2009** **Lab. Technician**, *National Atomic Energy Commission, NATEK, Sana'a, Yemen*

## Personal Skills

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**Languages** English | Arabic (native).  
**Computer** ICDL | Windows | Linux | Microsoft Office™ | LaTeX | Mathematica | FORTRAN | OriginLab | Python | C++.

## Research Experience

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**Skills** Calculations | programming | analyzing | writing | publishing | refereeing | collaborating.  
**Interests** Reactions of exotic nuclei | Coulomb Breakup | Optical & Polarization Potentials  
**Funding** Ulam Programme (NAWA, Poland, 2020-2022) | The British Academy Grant (2023-2025).  
**Active** Univ. of Warsaw (2020-now, 6 published papers, 1 in progress) | Univ. of Manchester  
**Collaboration** (2023-now, 2 papers in progress) | Univ. of Seville (2024-now, 1 paper in progress)  
**Publications** 25 Publications | 15 Papers | 6 Proceedings | 3 Reports | 1 Book | Full list on last page

## Talks, Workshops, and Conferences

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**Summary: 9 Invited talks | 1 Poster | 4 Oral talks at Conferences |**

### A- Invited Talks

- “A two-cluster approach for weakly-bound and halo nuclei”, *University of Seville, Spain* Nov 2024
- “Coulomb Breakup of Weakly-Bound and Halo Nuclei”, *University of York, UK* Oct 2024
- “[Simultaneous calculations for the  \$d+^{197}\text{Au}\$](#) ”, Heavy Ion Laboratory, *Univ. of Warsaw, Poland* Oct 2024
- “[Elastic scattering and breakup reactions of Halo Nuclei](#)”, *University of Edinburgh, UK* Oct 2024
- “[Coulomb breakup of light exotic nuclei](#)”, *University of Manchester, UK* May 2024
- “[Nuclear reactions of halo nuclei](#)”, *Najran University, SA (Remotely)*. May 2024

- “[Simultaneous calculations for elastic scattering, fusion, and direct cross sections](#)”, Heavy Ion Laboratory, *University of Warsaw*, Poland Jan 2024
  - “[Coulomb dynamical polarization potentials of exotic nuclei](#)”, *University of Surrey*, UK Nov 2023
  - “[Coulomb breakup of exotic nuclei](#)”, for Heavy Ion Laboratory, *University of Warsaw*, Poland May 2022
  - “[Proton elastic scattering: optical model & eikonal approximation](#)”, Faculty of Physics, *University of Warsaw*, Poland Mar 2021
- B- Oral Presentations in conferences**
- “[Simultaneous Calculation of Elastic Scattering, Transfer, and Breakup Cross Sections for  \$d+^{197}\text{Au}\$  Reaction](#)”, Nucleus-Nucleus Collisions Conference ([NN2024](#)), *Whistler*, BC, Canada Aug 2024
  - “[Coulomb dissociation of exotic nuclei using Coulomb dynamical polarization potential](#)”, the Direct Reactions with Exotic Beams conf. ([DREB2022](#)), *Santiago de Compostela*, Spain Jun 2022
  - “[Data normalization of  \$p+^9\text{Be}\$  elastic scattering: statistical study](#)”, Information & Statistics in Nuclear Experiment and Theory ([ISNET 8](#)) conf., *FRIB, Michigan State Univ.*, USA (online) Dec 2021
  - “[Energy dependence of optical potential](#)” [Nucleus-2019 conference](#)”, *Dubna*, Russia July 2019
- C- Posters in conferences**
- “[Simultaneous calculation of elastic scattering & direct cross sections for exotic projectiles](#)”, the Direct Reactions with Exotic Beams ([DREB2024](#)) conference, *Wiesbaden*, Germany Jun 2024
- D- Conferences (Attending Remotely):**
- [SIMFP2018](#), Saudi Arabia, Feb-Mar 2018
  - [SIMFP2016](#), Saudi Arabia, Feb 2016
  - [NSRT 2015](#), *Dubna*, Russia, July 2015
  - [INPC13](#), *Firenze*, Italy, June 2013.
- E- Other workshops and conferences (just attending)**
- [Nuclear Early Career Research Forum](#), *Institute of Physics*, London, UK Oct 2023
  - [NSAC Long-Range Plan Town Hall Meeting](#), *Argonne National Lab.*, USA (online) Nov 2022
  - Low energy community meeting ([LECM2022](#)), *Argonne National Lab.*, USA (online) Aug 2022
  - Low energy community meeting ([LECM2021](#)), USA (online) Aug 2021
  - International Meeting on Energy Security in the Middle East, *Amman*, Jordan Jun 2019
  - The [6th MEDENER](#) International Conference on Energy Transition, *Amman*, Jordan Oct 2018
  - "Reform of Graduate Studies in Nuclear Sciences", *Cairo University*, Egypt Mar 2009

## Teaching Experience

**Summary: 5 years as assistant professor | 2 years as tutor | 13 Universities | 4 Countries**

<b>2023-Now</b>	<b>Rule</b>	<b>Academic tutor</b> , Dep. of Physics & Astronomy, <a href="#">University of Manchester</a> , UK
	<b>Courses</b>	Electromagnetism, Mathematics of Waves & Fields, Quantum Mechanics, Statistical Mechanics, Solid-State Physics, Optics
	<b>duties</b>	Tutoring, supervision of Mphys projects
<b>2018-2020</b>	<b>Rule</b>	<b>Assistant Professor</b> , Dep. of Alternative Energy Tech., <a href="#">Philadelphia University</a> , Jordan
	<b>Courses</b>	<a href="#">Energy Conversion</a> , <a href="#">Environmental Impacts of Energy</a>
	<b>duties</b>	Teaching, quality assurance management, organizing workshops, supervising and evaluating graduation projects
<b>2015-2018</b>	<b>Rule</b>	<b>Assistant Professor</b> , Dep. of Physics, Faculty of Science, <a href="#">Taiz University</a> , Yemen.
	<b>Courses</b>	Quantum Mechanics, General Physics
	<b>duties</b>	Teaching, preparing program plans, writing course descriptions
<b>2015-2017</b>	<b>Rule</b>	<b>Assistant Professor</b> , Fac. of Engineering and Fac. in Bajil, <i>Hodeidah Univ.</i> , Yemen.
	<b>Courses</b>	General Physics <b>I</b> & <b>II</b> , Fluid Mechanics, Physical Chemistry
	<b>duties</b>	Teaching, organizing workshops
<b>2016-2018</b>	<b>Rule</b>	<b>Assistant Professor</b> , <a href="#">Al-Nasser Univ.</a> , <a href="#">Al-Razi Univ.</a> , <a href="#">Univ. of Sci. &amp; Tech.</a> , <a href="#">Univ. Of Modern Sciences</a> , <i>British Univ. in Yemen</i> , <i>The Civilization Univ.</i> , <i>Yemen Univ.</i> , <i>Arabian Univ. of Sci. and Tech.</i>

	<b>Courses</b>	General Physics <a href="#">I</a> & <a href="#">II</a> , <a href="#">Engineering Physics</a> , <a href="#">Medical Physics</a> , <a href="#">Thermodynamics</a> , Research Methods, Statistics
	<b>duties</b>	Teaching, organizing workshops, Lab mentoring, writing course plans
<b>2010-2015</b>	<b>Rule</b>	<b>Lecturer</b> , Dep. of Physics, Faculty of Applied Science, <i>Taiz University</i> , Yemen.
	<b>duties</b>	Teaching, laboratory technician

### Leadership and Service

▪ <b>Department rapporteur</b> , Alternative Energy Tech. Dep., <i>Philadelphia University</i> , Jordan	2019-2020
▪ <b>Manager</b> of Quality Assurance, Alternative Energy Tech. Dep., <i>Philadelphia Univ.</i> , Jordan	2018-2020
▪ <b>Organizer</b> of Workshops in several Universities in Jordan and Yemen	2017-2020

### Organization of Scientific Workshops and Meetings

▪ <b>Lead Organizer</b> , <a href="#">Situation and Future of Energy in Jordan</a> , <i>Philadelphia University</i> , Jordan	Jan 2020
▪ <b>Sole Organizer</b> , <a href="#">Environmental Impacts of Energy</a> , <i>Philadelphia University</i> , Jordan	Apr 2019
▪ <b>Co-organizer</b> , “Using LATEX for writing the sci. publications”, <i>Philadelphia Univ.</i> , Jordan	Feb 2019
▪ <b>Sole Organizer</b> , <a href="#">Energy Resources, Descriptive Studies</a> , <i>Philadelphia University</i> , Jordan	Dec 2018
▪ <b>Lead Organizer</b> , <a href="#">Applications of Physics in Engineering</a> , <i>British University</i> , Yemen	Feb 2018
▪ <b>Sole Organizer</b> , <a href="#">Applications of Physics in Medical Sciences</a> , <i>Al-Nasser University</i> , Yemen	Dec 2017
▪ <b>Sole Organizer</b> , <a href="#">Applications of Nuclear and Solar Energy</a> , <i>Hodeida University</i> , Yemen	Apr 2017
▪ <b>Lead Organizer</b> , <a href="#">Physics Applications in Architecture</a> , <i>Univ. of Sci. &amp; Tech. Hod</i> , Yemen	Jan 2017

### Commissions of Trust and Committees

▪ <b>Member</b> in committee (4 Academics) to establish a department “Science of Renewable Energy” in <i>Taiz University</i>	Apr-Aug 2020
▪ <b>Member</b> in committee of reviewing the graduated projects, <i>Philadelphia University</i> , Jordan	Jun 2019

### Awards, Grants and Honors

▪ The British Academy/Cara/Leverhulme Researchers at Risk Research Support Grant, <b>£8.6k</b>	2023
▪ Council for At-Risk Academics (Cara) Fellowship, at <i>University of Manchester</i> , UK, <b>£90k</b>	2023
▪ TWAS Young Affiliateship of IsDB-TWAS Scientists Programme	2021
▪ NAWA Scholarship Grant, Heavy ion Laboratory, <i>University of Warsaw, Poland</i> , <b>100,000PLN</b>	2020
▪ IIE-SRF Fellowship Award ( <i>The Institute of International Education-Scholar Rescue Fund</i> ), <b>\$50k</b>	2018
▪ Best Master Thesis Award in Faculty of Science, <i>Cairo University</i> , <b>2000EGP</b>	2009
▪ Distinction with First Class Honors for Preliminary Courses of Master, <b>1000EGP</b>	2007
▪ Financial Support of Yemeni Ministry of Higher Education for MSc & PhD, <b>£11.1k, \$48k</b>	2006
▪ Faculty of Science Award for the best bachelor students in the faculty, <i>Cairo University</i>	2004
▪ Prof. Mahmoud Mokhtar Medal for Best Student in the Physics Department, <i>Cairo University</i>	2004
▪ Schlumberger Limited Company Award for Best Students, <i>Cairo University</i> , <b>\$100</b>	2003
▪ Scholarship from the Egyptian Ministry of Higher Education, <b>£4000</b>	2000

### Professional Development and Training

▪ “Calculations of breakup & polarization potentials”, <i>University of Seville</i> , Spain, 1 week	Oct 2024
▪ “Transfer-reaction calculations using Fresco II”, <i>University of Warsaw</i> , Poland, 2 weeks	Oct 2024
▪ <a href="#">TRIUMF Summer Institute 2024</a> : "Modern Tools for Nuclear Reactions", TRIUMF, Vancouver (Canada), one week training.	Aug 2024
▪ FSE Foundations of Teaching and Learning (FOTL): <i>University of Manchester</i> , UK. Topics: The Effective Project Supervisor; Managing Student; Practical Sessions; Assessment, Marking & Feedback; Teaching Design & Delivery; Support Class Teaching, 12 hours	Nov 2023 - Jun 2024
▪ “Transfer-reaction calculations using Fresco I”, <i>University of Warsaw</i> , Poland, 2 weeks	Jan-Feb 2024
▪ Teaching Skills (FT1901): Academic Training Center, <i>Philadelphia Univ.</i> , Jordan. Topics: Effective lesson planning, Virtual education, Blended learning, 21 hours	Feb 2019

- Nuclear Reactor Physics Basics, *MEPhI University & Coursera* (online), 16 hours Dec 2018
- Teaching Skills (FT1801): Academic Training Center, *Philadelphia Univ.*, Jordan. Sep 2018  
Topics: Building websites, Effective learning, Google Forms & Drive systems), 18 hors
- ICDL, Center for Foreign Languages and Translation, *Cairo University*, Egypt. Feb-Mar 2013
- NSPA Workshop on Radiation Protection, *Cairo University*, Egypt, 72 hours. Jan-Feb 2012
- "Medical Physics and Radiation Protection", *Cairo University*, Egypt Jan 2011

### Science Outreach Activities

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- **Moderator** of “Yemen’s wind harvesting potentials” webinar, 05 Jun 2021. Jun 2021
- **Speaker** in “[Attacks on Higher Education webinar](#)”, by IIE-SRF & GCPEA, 27 Jan 2021. Jan 2021
- **Moderator** of “Status and Prospect of Solar Energy in Yemen” webinar, 28 Nov 2020. Nov 2020
- **Co-founder** of the Association of Yemeni Academics and Professionals ([AYAP](#)) abroad. Aug 2020
- **Speaker** in Science in Exile webinars: “[Protracted situation of displacement](#)”, 28 July 2020. Jul 2020
- **Speaker** in “NAWA event “[The Science must go on! Despite the COVID-19](#)”, April 2020 Apr 2020

### Press Coverage & Media

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- Warsaw University Magazine: "Z czego rodzi się szczęście?", by Anna Stobiecka, Pismo uczelni [UW 102, 30 \(2022\)](#). Apr 2022
- Nature: "How three refugee scientists kept their research hopes alive", by Virginia Gewin, *Nature* [598, 527 \(2021\)](#). Oct 2021
- Research in Poland: "[Hasan Maridi-from Yemen to Poland. A story of a displaced scientist](#)" Dec 2021
- On the [brochure](#) cover of the 100-year anniversary of the Institute of International Education. Jul 2020
- The IIE-SRF’s newsletter (The Beacon), [May 2020](#) issue. May 2020

### Memberships

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- The Institute of Physics ([IOP](#)) Membership 2024-2025
- British Educational Research Association ([BERA](#)) Membership 2023-2025
- [TWAS](#) Young Affiliateship of IsDB-TWAS Scientists programme 2021-2025
- [FRIB Theory Alliance](#) (MSU, USA) Membership 2020-open

### References

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Available upon request.

### Publications

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**Summary: 25 Publications | 15 Papers | 6 Conference Papers | 3 Reports | 1 Book**

#### Papers

1. **H.M. Maridi**, J. Singh, N.R. Walet, D.K. Sharp, “A two-cluster approach to the properties of one- and two-neutron-halo nuclei”, arXiv: [2407.03044 \(2024\)](#), submitted to [Phys. Rev. C](#).
2. **H.M. Maridi**, N. Keeley, K. Rusek, “Simultaneous calculation of elastic scattering, fusion, and direct cross sections for reactions of weakly bound projectiles”, [Phys. Rev. C 109, 034601 \(2024\)](#).
3. **H.M. Maridi**, K. Rusek, N. Keeley, “Calculation of Coulomb breakup cross sections using a new Coulomb dynamical polarization potential”, [Phys. Rev. C 106, 054613 \(2022\)](#).
4. A. T. Rudchik, ..., **H.M. Maridi**, ..., “Comparison of  $^{10}\text{B} + ^6\text{Li}$  and  $^{10}\text{B} + ^7\text{Li}$  elastic scattering: The role of ground state reorientation and breakup”, [Phys. Rev. C 106, 014615 \(2022\)](#).
5. **H.M. Maridi**, K. Rusek, N. Keeley, “Comparison of Coulomb breakup effects on the elastic scattering of  $^6\text{He}$  and  $^8\text{He}$  using a Coulomb dipole polarization potential”, [Eur. Phys. J. A 58, 49 \(2022\)](#).
6. **H.M. Maridi**, K. Rusek, N. Keeley, “Coulomb dynamical polarization potential and the electric dipole polarizability for weakly-bound and neutron rich light nuclei”, [Phys. Rev. C 104, 024614 \(2021\)](#).
7. **H.M. Maridi**, A. Pakou, K. Rusek, “The  $p + ^9\text{Be}$  elastic scattering below 30 MeV: optical model analysis and data normalization”, [Int. J. Mod. Phys. E 30, 2150024 \(2021\)](#).

8. A. T. Rudchik, ..., **H.M. Maridi**, ..., “ ${}^6\text{Li}+{}^{15}\text{N}$  interaction at  $E_{c.m.} = 23.1$  MeV; validation of the  $\alpha + d$  cluster model of  ${}^6\text{Li}$ ”, [Phys. Rev. C 103, 044614 \(2021\)](#).
9. **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 \(2019\)](#).
10. M.Y.H. Farag, E.H. Esmael, **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 \(2014\)](#).
11. M.Y.H. Farag, E.H. Esmael, **H.M. Maridi**, “Energy-dependent microscopic optical potential for scattering of nucleons on light nuclei”, [Eur. Phys. J. A 50, 106 \(2014\)](#).
12. M.Y.H. Farag, E.H. Esmael, **H.M. Maridi**, “Elastic interaction of protons with stable and exotic light nuclei”, [Phys. Rev. C 88, 064602 \(2013\)](#).
13. M.Y.H. Farag, E.H. Esmael, **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 \(2012\)](#).
14. M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, **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 \(2009\)](#).
15. M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, **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 \(2009\)](#).

### Proceedings (Papers from Conferences)

1. **H.M. Maridi**, D.K. Sharp, J. Lubian, “Simultaneous calculation of elastic scattering, transfer, breakup, and other direct cross sections for  $d+{}^{197}\text{Au}$  reaction”, in progress, [Nucl. Phys. A \(2024\)](#).
2. **H.M. Maridi**, “Energy dependence and surface contribution of the nucleon-nucleus optical potential”, [Bull. Russ. Acad. Sci. Phys. 84, 473 \(2020\)](#).
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, 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, 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, **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 \(2014\)](#).

### Reports

1. **H.M. Maridi**, K. Rusek, and N. Keeley, “Comparison of Coulomb breakup effects on the elastic scattering of  ${}^6\text{He}$  and  ${}^8\text{He}$ ”, [HIL Annual Report 2021, 80 \(2022\)](#).
2. A. T. Rudchik, ..., **H.M. Maridi**, ..., “Coupling of  ${}^6\text{Li}+{}^{10}\text{B}$  elastic scattering with the inelastic channels”, [HIL Annual Report 2021, 60 \(2022\)](#).
3. **H.M. Maridi**, K. Rusek, and N. Keeley, “Coulomb dipole polarization potential for  ${}^6\text{He}+{}^{208}\text{Pb}$ ”, [HIL Annual Report 2020, 49 \(2021\)](#).

### Books

**H. M. Maridi**, “Scattering of halo nuclei”, LAP Lambert Academic Publishing, 2013. [ISBN:9783659421112](#)