

Brief Curriculum Vitae

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Hanan M. Sa'adeh

Professor of Atomic and Molecular Physics

The University of Jordan

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Education and Qualifications

- **Ph.D. degree in Physics/ Experimental Atomic Physics (Accelerator-Based), 2010.**

The University of Jordan, Faculty of Graduate Studies, Amman, Jordan, 2002-2010.

With an average of 3.95 out of 4, rating excellent and ranking first of the students of the Department of Physics.

Dissertation Title: Correlation of Backscattered and Recoil Ions in Violent Ion-Atom Collisions by Coincident Rutherford Backscattering Spectrometry.

Dissertation Advisors: Prof. Dr. Dia-Eddin Arafah and Dr. Rami M. Ali.

- **B.Sc. degree in Physics, 2002.**

The University of Jordan, Faculty of Science, Department of Physics, Amman, Jordan, 1999-2002.

With an average of 3.97 out of 4, rating excellent and ranking first of the students of the Department of Physics and the Faculty of Science as well.

- **General Secondary Education Certificate Examination, Scientific Stream, 1999.**

Ministry of Education, Amman, Jordan, 1998-1999.

With an average of 93.0%, rating excellent and scored in the 99th percentile (i.e., the top 1%) of the students of the scientific stream in Jordan.



Academic Appointments and Teaching Experience

- *Full Professor of Physics*, Department of Physics, School of Science, The University of Jordan, Amman, Jordan, June 2024 to Present.
- *Associate Professor of Physics* (Tenured as of March 2020), Department of Physics, School of Science, The University of Jordan, Amman, Jordan, June 2019 to June 2024.
- *Assistant Professor of Physics* (Tenure Track), Department of Physics, School of Science, The University of Jordan, Amman, Jordan, September 2013 to June 2019.
- *Assistant Professor of Physics*, Physics Department, Rabigh-Faculty of Science and Arts, King Abdulaziz University, Rabigh, Saudi Arabia, October 2010 to August 2013.

Research Experience

- *Guest Researcher*, working at FinEstBeAMS beamline, MAX IV Laboratory, Lund, Sweden, February to May 2023.
- *Research Fellow*, working mainly at GasPhase beamline, Elettra-Sincrotrone Trieste, Basovizza, Italy, 2015 to Present.
- *Principal Researcher*, working mainly at PIXE-RBS beamline, The University of Jordan Van de Graaff Accelerator (JUVAC) Laboratory, Department of Physics, The University of Jordan, Amman, Jordan, 2013 to Present.
- *PhD Candidate*, building the Coincident Rutherford Backscattering Spectrometry (CRBS) apparatus at JUVAC under the supervision of Dr. Dia-Eddin Arafah and Dr. Rami M. Ali, Atomic Physics Lab, Department of Physics, The University of Jordan, Amman, Jordan, 2005 to 2010.

Administrative Experience

- *Jordan National Coordinator*, TC Projects of the International Atomic Energy Agency (IAEA) in ARASIA regional network, 2016 to 2023.
- *Head of Physics*, Physics Department, Rabigh-Faculty of Sciences and Arts (Females Branch), King Abdulaziz University, Rabigh, Saudi Arabia, 2011 to 2013.

Professional Memberships

- European Physical Society (EPS), Atomic, Molecular and Optical Physics Division (AMOPD), 2021 to Present.
- American Physical Society (APS), Division of Atomic, Molecular and Optical Physics (DAMOP), 2017 to Present.
- SESAME Users Committee (SUC), Representative of Jordan, 2016 to Present.

Scholarships, Fellowships, Honors, Awards and Merits Recognitions

27. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 28 June to 19 September 2024.
26. Featured as the **Global Spotlight Member of the American Physics Society (APS)**, APS, USA, April 2024. <https://www.aps.org/about/international/global-spotlight/shining-light-excitement-jordan>
25. **The Prestigious Early Career Award of Ion Beam Analysis**, IBA & PIXE 2023 Conference, Toyama, Japan, 11 October 2023.
24. **SESAME-MAX IV Exchange Scholarship at MAX IV Laboratory**, Swedish Institute (SI), Stockholm, Sweden, 1 February to 31 May 2023.
23. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 1 September 2022 to 23 September 2023.
22. **One-Year Sabbatical Leave (2022-2023)**, The University of Jordan, academic year 2022/2023.
21. **One-Year Scientific Leave (2021-2022)**, in recognition of being awarded an international research fellowship in Atomic and Molecular Physics, The University of Jordan, academic year 2021/2022.
20. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 1 September 2021 to 31 August 2022.
19. **One-Year Scientific Leave (2018-2019)**, in recognition of being awarded an international research fellowship in Atomic and Molecular Physics, The University of Jordan, academic year 2018/2019.
18. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 1 September 2018 to 31 August 2019.
17. **Scholarship for Intensive Latin Course**, The University of Jordan and the Italian Institute for Classical Studies (IISC) in Italy, The University of Jordan, 30 June to 2 August 2018.
16. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 21 June-20 August 2017.
15. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 8 July-7 August 2016.
14. Nominated to attend the **66th Lindau Nobel Laureate Meeting**, The University of Jordan & COMSTECH, December 2015.
13. **TRIL Fellowship at Elettra-Sincrotrone Trieste**, ICTP, Trieste, Italy, 1 June-29 August 2015.
12. **Grant for a Short Scientific Visit to LABEC Laboratory of INFN at Florence, Italy**, IAEA RAS/0/072 Project, February 2015.
11. **The 1st Position in Poster Presentation Contest**, First ICTP-NCP International College on Plasma Physics, NCP, Pakistan, November 2013.
10. **Grant for a Short Scientific Visit to ESRF (European Synchrotron Radiation Facility) at Grenoble, France**, SESAME and LinkSCEEM Project (SCORE Program), October 2013.
9. **Distinguished Poster Award**, Hands-On Research in Complex Systems School, Shanghai Jiao Tong University, China, June 2012.
8. Nominated for the **Best Ph.D. Dissertation Award in the Scientific Field**, Department of Physics, The University of Jordan, 2010.
7. **Teaching Scholarship**, The University of Jordan, Faculty of Graduate Studies, 2003-2010.
6. **Academic Distinction Scholarship**, The University of Jordan, Faculty of Graduate Studies, 2007.
5. Appeared on the **University's President's Honor List for Academic Distinction**, The University of Jordan, 2003.
4. **Scientific Distinction Award in Science**, The University of Jordan, July 2003.
3. **Scientific Distinction Award in Physics**, The University of Jordan, July 2003.
2. **Higher Education Grant for the Top Students in Physics Department**, Ministry of Higher Education and Scientific Research, Jordan, 2000.
1. **Higher Education Grant for the Top Students in Tawjihi Exam**, Ministry of Higher Education and Scientific Research, Jordan, 1999.

Publications

Author and co-author of 19 papers in peer-reviewed journals (in reversed chronological order at [Hanan Sa'adeh-Google Scholar](#)).

Professional Presence Links

- My *Research Group* website: [Characterization of Atmospheric Particulate Matter Using Accelerator-Based Techniques](#)
- YouTube Channel (dedicated to *Research*): [JUVAC Ions for Science](#)
- *LAMBDA Physics Group* at the University of Jordan: <https://science.ju.edu.jo/en/lambda/Home.aspx>

My **detailed CV** can be found [here](#).