



College of Sciences



## PROFILE (Short-Bio: Max-100 words)

Highly accomplished Doctor with extensive experience in Computational Physics, Particle Physics (CMS/CERN), and Computer Science. Expertise in AI, neural networks, genetic programming, modeling, and simulation. PhD from Birmingham University. Impressive publication record (532 publications, H-index 98), including Science and Nature Physics papers. Leader in international research projects and dedicated supervisor. Research focuses on understanding particle physics via computational tools and high-performance computing.

## WORK EXPERIENCE

- **2015 - Present**  
Associate Professor, Sultan Qaboos University, Oman
- **2013 - Present**  
Professor, Ain Shams University, Egypt
- **2016 - Present**  
Team Leader SQU-group, CMS Experiments, CERN
- **2012 - 2015**  
Team Leader ENHEP-group, CMS Experiments, CERN
- **2009 - 2013**  
Senior Lecturer, Ain Shams University
- **2007 - 2009**  
Head of Computer Science Department, Akhbar El-Yom Academy, Egypt
- **2000 - 2007**
  - Lecturer, Ain Shams University
  - Research Assistant (part-time), Aston Business School, Aston University, UK (2002-2004)
- **1995 - 2000**
  - PhD Candidate & Computer Science Instructor, Birmingham University, UK
  - Lecturer, City College, Birmingham (May-July 2000)
  - Network Consultant, UNI-techniques, Birmingham (1997-2000)
- **1987 - 1995**
  - Assistant Lecturer in Physics, Ain Shams University
  - Part-time Consultant, UNESCO (1992-1995)
  - Network Consultant, Delta Computer Co., Cairo, Egypt (1988-1994)

## RESEARCH INTERESTS

- Computational physics, particle physics (detectors simulations, modeling on high-performance computing/Grid), digital electronics (FPGA, microcontroller), artificial intelligence, neural networks, genetic programming, and computer science applications in physics.

### CONTACT:

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**Pure:** <https://squ.elsevierpure.com/en/persons/amr-radi>

**Scopus:** [www.scopus.com/authid/detail.url?authorId=15756207600](http://www.scopus.com/authid/detail.url?authorId=15756207600)

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### QUALIFICATION

#### SPECIALIZATION:

**PhD in:** Computer Science (AI)

University of Birmingham, UK

**Master's in:** Physics

University of Ain Shams, Egypt

### HONORS & AWARDS:

- 2025 Breakthrough Prize in Fundamental Physics (\$3 million)
- Best Researcher Awards 2020, SQU.
- Acknowledged with the Nobel Prize in Physics 2013