



## DANISH AHMED KHAN

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### CAREER AIM

*“To work in the field of scientific research and education and play my part for the development and advancement of science and technology. Be a globetrotter, so that I may share the knowledge that I possess with the whole World.*”

### EDUCATION

#### **Department of Physics, University of Karachi**

**M.Phil. Major: Physics** (August - 2016)

Course Work Score: 3.852 CGPA

Research work carried out under the supervision of Assistant Professor Dr. Zaheer-Ud-Din (zaheer103@yahoo.com) and Co Supervision of Assistant Professor Dr. Syed Tanweer Iqbal (tanveeriqbal\_68@yahoo.ca)

Area of Research: Atomic Spectroscopy

Dissertation Titled: “Branching Fraction Measurements in Praseodymium Ionic (Pr-II)”

#### **Department of Physics, University of Karachi**

**B.S. (4 Years) Major: Physics** (December - 2010)

Score: First Division (65.9%)

6 Credit Hours ‘Thesis’ carried out under the supervision of Assistant Professor Dr. Zaheer-Ud-Din and Co-Supervision of Mr. Syed Mishkat Ali Jafri (Senior Scientific Officer, Pakistan Nuclear Regularity Authority)

Dissertation Titled: “Shielding Calculations for X-ray Diagnostic Facilities”

### PUBLICATIONS AND PAPER PRESENTATIONS

Uddin, Z., Ahsanuddin, M., & Khan, D. A. (2017). Teaching physics using Microsoft Excel. Physics Education, 52(5), 053001 (IOP Science)

Paper Presentation “Branching Fraction Measurements in Praseodymium Ionic (Pr-II)” in the ‘4<sup>th</sup> National Conference on Space and Technology’, World Space Week, Institute of Space and Planetary Physics, University of Karachi

Poster Presentation “Branching Fraction Measurements in Praseodymium Ionic (Pr-II)” at the ‘National Conference on Multi-Disciplinary Topics in Physics’ Department of Physics, University of Karachi

## PEDAGOGICAL EXPERIENCE

**November 2018 – to date:** Lecturer (Permanent - Government Scale BPS – 18) Department of Physics, NED University of Engineering and Technology, Karachi

**July 2014 – October 2018:** Lecturer (Contract) Department of Physics, NED University of Engineering and Technology, Karachi.

Courses taught to Undergraduate classes: PH-204 (Introduction to Material Science), PH-122 (Applied Physics), PH-102 (Heat and Thermodynamics), PH-123 and PH-124 (General Physics I and II) Courses (non-credit hours) taught to Post Graduate classes: PH-400 (Classical Mechanics), PH-401 (Electromagnetic Field – I), PH-407 (Modern Physics-II)

**January 2012 – June 2014:** Lecturer (Contract) Department of Physics, University of Karachi, Karachi.

Courses taught to undergraduate classes: 301 (Vectors, Mechanics and Properties of Matter), 401 (Electromagnetism), 411 (Modern Physics)

**February 2011 – January 2012:** Senior School Physics Teacher, Army Public School and College Systems (APSACS), Karachi

## ACADEMIC ACHIEVEMENT

Won 2<sup>nd</sup> Prize at the Presentation Competition at 7<sup>th</sup> Large Hadron Collider School at National Center for Physics organized in collaboration with International Center for Theoretical Physics, Islamabad, Pakistan

## SEMINAR/WORKSHOP/CONFERENCE PARTICIPATIONS

August 6 – 17, 2018 '7<sup>th</sup> Large Hadron Collider School at the National Center for Physics, Islamabad, Pakistan

January 4, 2018 'Seminar on Medical Physics and its Applications' Department of Physics, NED University of Engineering and Technology

February 17-18, 2016 'Second International Textile Conference' Textile Engineering Department, NED University of Engineering and Technology, Karachi

June 23 – 25, 2014 'Physics Research: Learning by Doing' Center of Physics Education (CPE), Karachi

November 27, 2010 'Nanotechnology: An Overview and Applications' Department of Physics, University of Karachi

December 16 – 17, 2009 'Physics and the World of Today' Department of Physics, University of Karachi

## INTERESTS

- Multidisciplinary Physics – Particle Physics combined with Mathematics and Computational Engineering
- Binary and Quantum Computation
- Science, Space Exploration, Journey to Mars
- Reading (scientific journals, articles and papers), writing (academic, philosophy)