

Wazir Muhammad, Ph.D.

Assistant Professor – Medical Physics
Department of Physics (Medical Physics Section)
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Research Fields: **Medical & Radiation Physics; Computational Physics; Big Data; Machine Learning; Artificial Intelligence; Cancer Risk Estimation**

Research focus:

Monte Carlo based Radiation Transport, Radiotherapy, Ion-beam, Proton and Neutron Therapy, Treatment Planning, Radiation Dosimetry & Detection, Radiation Protection & Shielding, Big Data, Machine Learning, Artificial Intelligence, Cancer Risk, Early Detection of Cancer, Organ Doses

Education

- March 2009 – Feb., 2013 – ***Ph.D. Radiation Physics (U.S Equivalence: PhD in Physics)***, Kyungpook National University (KNU), Daegu, Republic of Korea (GPA: 4.21/4.5)
- 2002-2004 – ***M.S. Medical Physics (U.S Equivalence: Master of Science in Medical Physics)***, Pakistan Institute of Engineering & Applied Sciences (PIEAS), Islamabad, Pakistan
- 1999-2000 – ***M.Sc. Physics (U.S Equivalence: Bachelor of Science in Physics)***, from University of Peshawar, Pakistan
- 1997-1998 – ***Bachelor of Science (B.Sc.) Physics & Mathematics (U.S Equivalence: Associate of Science in Mathematics and Physics)***, from University of Peshawar, Pakistan

Honors and Awards

1. March 2009- Feb. 2013, Awarded **Brain Korea (BK) 21** Scholarship funded by the Ministry of Education, Science and Technology of Korea for PhD studies at Kyungpook National University, South Korea.
2. March 2009- Feb. 2011, **Korea Honors Scholarship (KHS)**, for PhD studies at Kyungpook National University, South Korea.
3. **Travel Grant** awarded by the Brain Korea (BK) 21 Project funded by the Ministry of Education, Science and Technology of Korea in 2011
4. **Travel Grant** awarded by the Brain Korea (BK) 21 Project funded by the Ministry of Education, Science and Technology of Korea in 2012
5. **Fellowship** has been awarded by Pakistan Atomic Energy Commission (PAEC) for two-year (2002-2004) M.S program in Medical Physics at PIEAS, Islamabad.
6. **Letter of Appreciation** on Supervision of Installation of Radiotherapy Simulator HMD-IA at Institute of Nuclear Medicine, Oncology and Radiotherapy (INOR) Abbottabad Pakistan from China Nuclear Energy Industry Corporation (CNEIC)
7. **Travel Grant** awarded by Varian in 2005.

Career/Academic Appointments

1. Department of Physics, Florida Atlantic University, Boca Raton, FL
Assistant Professor – Medical Physics (September 09, 2019 – continue)
2. Yale School of Medicine, Yale University, New Haven, CT
Associate Research Scientist (May 01, 2017 – August 31, 2019)