


Mamuna Anwar, Ph D

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Summary

I have more than 10 years Research experience with 7 years in optics and laser development. My expertise span the area of designing, modelling and testing of complex optical systems including nonlinear optics and short-pulsed and high power lasers.

Experience



Analyst

Virtusa

May 2020 - Present (3 months +)



Cheeky Scientist Associate

Cheeky Scientist

Jul 2019 - Present (1 year 1 month +)



Student

DCI Digital Career Institute gGmbH

May 2020 - Jun 2020 (2 months)

An orientation course in the direction of online marketing and web development.



C1 German Language Student

AWO-Akademie

Aug 2019 - Dec 2019 (5 months)

I attended an intensive course to reach the German language C1 level certified by Telc



Independent Researcher

University of Hamburg

Jan 2019 - Nov 2019 (11 months)



Research Associate

University of Hamburg

Apr 2012 - Dec 2018 (6 years 9 months)

Development of different THz radiation Generation Setups.

High Harmonic Generation

Developing velocity map Imaging spectrometers from continuous to pulsed making collective as well as coincidence electron detection.

Time, energy and angle resolved Electron spectroscopy.



Research Assistant

Max Planck Institute for Biophysical Chemistry

Feb 2012 - Mar 2012 (2 months)

Analysis of Protein X-ray scattering data collected at Synchrotron



Research Assistant

Leibniz Institute of Photonic Technology

Apr 2010 - Feb 2012 (1 year 11 months)

Self assembly monolayer preparation

Optical characterization of Hybrid nanostructures -nanohole arrays filled with metal nano particles

DNA immobilization

Bio-analytical sensing characterization of nanostructures



Lecturer

COMSATS Institute of Information Technology, Pakistan

Aug 2008 - Oct 2009 (1 year 3 months)

Teaching undergraduate course on

Modern Physics

Mathematical Methods for Engineers

Assisting in the Graduate course on Quantum optics in

Lecture, Assignment and Exams

Education



University of Hamburg

Doctor of Philosophy, X-ray Physics

2012 - 2018



Friedrich Schiller University Jena

Master of Science - MS, Photonics

2009 - 2012



Quaid-e-Azam University, Islamabad

Master of Philosophy (M.Phil.), Physics

2006 - 2008

Licenses & Certifications



Communication skills for scientists - DESY



Project Management skills for scientists - DESY



Leadership skills for Scientists - DESY



Time management skills - DESY

Honors & Awards



International Master of science in Photonics scholarship - Abbe School of Photonics,

Friedrich Schiller universität Jena

Oct 2009



DFG funded Ph D position

Apr 2012

Skills

Optics • Physics • Spectroscopy • Analytical Skills • Data Analysis • Physics • Instrumentation • Testing • Statistics • Microscopy