

Saniya Anjum Aqeel Ahmed Yadgeer, M.Sc. Physics

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Brief Overview

Research and deep physics enthusiast. I earned my M.Sc. in Physics from the Dr. Vishwanath Karad MIT World Peace University, Pune and also received my B.Sc. in Physics, Chemistry, and Mathematics from Ramakrishna Paramhansa Mahavidyalaya, Osmanabad. While working on the project for my M. Sc., I acquired some research skills including presentation abilities, data analysis and working on a simulation software. I'm eager to put my best knowledge to use in research fields and to help the organisation and myself.

Key Skills

- Photonics • Microsoft Office • Communication • COMSOL Multiphysics • Origin
- Gnuplot • Python Basics • Data Analysis

Research Summary:

- Project Title: Study of Chromatic Dispersion in Single-Mode Optical Fiber
- Presented at International Conference on Current Trends in Physics and Photonics conducted by School of Physics Dr. Vishwanath Karad MIT World Peace University
- Modelled a 2D optical fiber using the Electromagnetic Wave, Frequency Domain using COMSOL Multiphysics software.
- The effective mode index was computed using Mode Analysis and total dispersion is calculated theoretically.
- The computed values of chromatic dispersion are within 7% of theoretical values. Different effective mode index values caused fluctuations in the waveguide dispersion and showed negative values.
- Analyzed data using COMSOL Multiphysics and Origin. Prepared plots and visualized the data.

EDUCATION

M.Sc., Physics, Dr. Vishwanath Karad MIT World Peace University, Pune, Maharashtra India; CGPA 8.33/10.0	2022
B. Sc., Physics, Chemistry, Mathematics Ramakrishna Paramhansa Mahavidyalaya, Osmanabad, Maharashtra India; Percentage 75.32 / 100.0	2020
H.S.C., Shripatrao Bhosale Junior College, Osmanabad Maharashtra India; Percentage 79.23 / 100.0	2017
S.S.C., Vidyamata High School, Osmanabad Maharashtra India; Percentage 89.40 / 100.0	2015

Activities:

- Conference Presentation (Oral) | Saniya Anjum Yadgeer, International Conference on Current Trends in Physics and Photonics, Dr. Vishwanath Karad MIT World Peace University, 2022, Pune, India
- Summer School Participation | Quantum Information and Quantum Technology 2022 | Organised by IISER, Kolkata | 1st Jun to 5th Jul 2022
- Participation in National Level Workshop on Experimental Physics | 14th Feb 2020
- Participation in Seminar Competition on Mathematics and Applications | Milliya Arts, Science and Management Science College, Beed | 23rd Jan 2018

Achievements:

- Research Perseverance Award, 1st place during the curriculum 2020-2022
- Poster Presentation Titled 'Geothermal Energy', 2nd place | Science Congress 2019 Organised by Science Association | 12th Jan 2019