

PARVATHY P SEKHAR

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Dichiarazione sostitutiva di certificazione e dichiarazione sostitutiva dell'atto di notorietà ai sensi del D.P.R. 445/28.12.2000

La sottoscritta **Parvathy Priya Sekhar** nato a [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] consapevole delle responsabilità penali cui può andare incontro, in caso di dichiarazioni mendaci, ai sensi e per gli effetti di cui all'art. 76 del D.P.R. 445/2000 e consapevole che, ai sensi dell'art. 13, del Regolamento UE 2016/679 (GDPR), la presente dichiarazione sarà pubblicata sul sito web dell'amministrazione in apposita sezione di Amministrazione Trasparente, sotto la propria responsabilità

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ai sensi degli artt. 46 e 47 del DPR 445/2000

EDUCATION

Undergraduation : Indian Institute of Science Education and Research, Bhopal Programme: BS-MS Dual degree Major Discipline: Physics CPI: 8.52(out of 10)	2018-2023
Higher Secondary(12th Grade): Kendriya Vidyalaya No-1,Palakkad Board: CBSE Percentage: 98.6(out of 100)	2017-2018
High School(10th Grade): Kendriya Vidyalaya No-1,Palakkad Board: CBSE CGPA: 10(out of 10)	2015-2016

ACADEMIC HIGHLIGHTS

SCHOLARSHIPS

- **DST INSPIRE Scholarship for Higher Education(SHE)** **2018-2023**
Awarded by DST, Government of India, for meritorious students in the top 1% of their Class XII examination.
- **Chanakya Postgraduate Fellowship** **Aug 2022-Jan 2023**
Awarded by the I-Hub Quantum Technology Foundation(QTF), IISER Pune for selected projects in Quantum Technologies.

ACCOLADES

- **CNR Rao Foundational Prize** **2019**
Awarded by the Institute, for a 10/10 CPI in the 1st semester at IISER Bhopal.
- **All India KVS 3rd rank holder in AISSCE** **2018**
Secured 3rd rank at the All India KVS(Kendriya Vidyalaya Sangathan) level with an aggregate of 98.6% in Class XII CBSE Board examinations 2018.

TEACHING EXPERIENCE

- **Summer School for Women in Mathematics and Statistics, ICTS, Bengaluru** **2022,2023**
Teaching assistant in grading and organizing the Summer School.

WORKSHOPS / SCIENCE CAMPS ATTENDED

- **Qiskit Global Summer School(Online)** 2021
2 Week workshop organized by Qiskit on Quantum Machine Learning
- **Asian Science Camp, Shantou, China** 2019
Selected to represent India along with 20 other students from Science Institutes across India.
- **Summer School for Women in Mathematics and Statistics, ICTS, Bengaluru** 2019
Two week school on problem solving in Mathematics and Statistics
- **Vijyoshi Science Camp** 2018
Hosted by IISER Bhopal and Organized by KVPY in collaboration with INSPIRE and DST.

RESEARCH PROJECTS

- **Supersolids in a Ring** Nov 2023-present
LENS, Florence | Supervisor : Prof. Giovanni Modugno
 - Awarded the position without scholarship at the International Doctorate for Atomic and Molecular Photonics, LENS, Florence to pursue PhD project on theoretical and experimental studies of supersolids.
 - Numerically simulated Supersolid in a ring potential and calculated superfluid fraction.
- **non-Markovian effects in Superconducting Circuits** Jun 2022-Apr 2023
Master's Thesis | IISc, Bengaluru | Supervisor : Dr. Baladitya Suri
 - Using Tensor Network Methods to understand the dynamics of superconducting circuits coupled to structured environments.
- **Normal mode analysis of trapped ion crystals** April 2023-Oct 2023
IISc, Bengaluru | Supervisor : Dr. Athreya Shankar
 - Analyzing the normal modes of trapped ion crystals in a linear Paul trap and it's implications in laser cooling techniques.
- **Quantifying Quantum Entanglement in stabilizer states of the Topological Color Code** Jun-Aug 2021
Indian Institute of Technology, Palakkad | Supervisor : Dr. Amit Kumar Pal
 - Applied quantum entanglement measures on stabilizer states(via mapping to Graph states) in the topological color code.

EXTRA-CURRICULAR ENDEAVOURS

ORGANIZATIONAL & LEADERSHIP ROLES AT IISERB

- Nominated **Student Advisor**, Central Advisory Committee(CAC) to the Student Activity Council of IISER Bhopal. *(April 2021-April 2022)*
- **Club co-ordinator, Dance Club(Mayuraa)** of IISER Bhopal. *(June 2021-May 2022)*
- Elected as the **Secretary of Science Council** of IISER Bhopal and Convener, Singularity 2020(Online), the Annual Science Fest of IISER Bhopal. *(Feb 2020- April 2021)*

SKILLS

C,C++ ,Python(Advanced),Mathematica,R(Moderate),MATLAB,COMSOL(Beginner)
Dance, Content writer

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