

Krishna E

M.S. in Solid State Physics
Indian Institute of Space Science and
Technology

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Areas of Interest

Quantum Information Theory, Quantum metrology, Quantum optics, Cold atoms and Bose Einstein condensate, Cavity quantum electrodynamics, Quantum condensed matter physics

Research Experience

Master Thesis

July 2023- **Quantum Metrology for testing collapse models**
present [Dr. Animesh Datta](#), Department of Physics, University of Warwick

Project

Nov 2022- **Error mitigation for quantum circuits**
June 2023 [Dr. Solomon Ivan](#), Department of Physics, IIST

Internship

June 2022- **Entanglement Distillation of pure entangled states of photons via linear optics**
August 2022 **based local quantum operations and classical communication (LOCC)**
[Prof. Sibasish Ghosh](#), Optics and Quantum Information Group, The Institute of Mathematical Sciences (IMSc), Chennai

Education

2019-2024 **B.Tech. Engineering Physics and Master of Science in Solid State Physics**, Dual
(expected) Degree programme, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, Kerala, India
CGPA: 8.85/10 (Till 8th semester)

2019 **High School, CBSE (XII)**, Maharishi International Residential School, Tamil Nadu, India
Percentage: 97.4%

Technical Skills

Programming Languages C++, Python, MATLAB, Mathematica

Software Qiskit, LabView, Simulink, KiCad, LTspice, P5.js, \LaTeX

Platforms Windows, Linux

Scholarships

Aug 2019- **Awarded DOS Assitanceship** for all semesters completed till date.
present Scholarship awarded by **Department of Space, Government of India**

Lab Experience

- M.S Space Technology Innovations and Characterizations (STIC) Lab, Electronic Materials and Devices Lab - [Dr. Jinesh K.B](#)
Experimental Physics Lab, Solid State Physics Lab - [Dr. Sourin Mukhopadhyay](#)
- B.Tech. Modern Physics, Modern Optics, Computer Science and Programming, Instrumentation and Measurement, Digital Signal Processing

Course Projects

- Nov 2022 **Solitons in Bose Einstein Condensate**
[Dr. Umesh R Kadhane](#), *Department of Physics, IIST*
- Apr 2022 **Dynamical Casimir Effect**
[Dr. Umesh R Kadhane](#), *Department of Physics, IIST*
- Dec 2021 **Statistical Signal Modeling**
[Dr. Chris Prema S](#), *Department of Avionics, IIST*