

Dhanus M Lal

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SUMMARY I am a fourth year UG mathematics major at IISc, Bangalore. I am looking for internships or placements in areals related to mathematics/data science.

EDUCATION

<i>High school</i> [CBSE] City Central School, Kollam, Kerala	CGPA-10
<i>Higher secondary</i> [ISC] St. John's Residential School, Kollam, Kerala	96%
<i>Bachelor of Science (Research)</i> Indian Institute of Science, Bengaluru Major: Mathematics	Current CGPA-8.7

SKILLS

Programming Languages & Softwares: C, C++, Python, MATLAB, \LaTeX , numpy, scipy, MPI, OpenMP

Operating Systems: Windows, Unix.

Mathematical skills: Very strong mathematical background, Linear Algebra, Measure Theory, Probability Theory, Machine Learning, Sparse Recovery

Other skills: Typing speed: 65 WPM

PROJECTS

<i>Reading project on probability thoery</i> Advisor: Arvind Ayyer, department of mathematics, IISc, Bangalore <ul style="list-style-type: none">Explored elementary topics in probability theory.Baye's theorem, conditional probabilities, conditional expectation, etc.	June – August 2019
<i>Modelling Bernoulli bond percolation in 2-dimensional lattice</i> With Abhinav M, University of Kerala. Github repository is linked here <ul style="list-style-type: none">Used C and python to estimate percolation threshold in a 2D lattice	June – October 2020
<i>Reading project on Zorn's lemma</i> Advisor: Arvind Ayyer, department of mathematics, IISc, Bengaluru. <ul style="list-style-type: none">Explored the equivalence between Zorn's lemma, axiom of choice and well ordering principle.	July – August 2021
<i>Developed a simple board game using python</i> Github repository is linked here.	May – June 2020

Thesis project on compressed sensing January – present 2022
Advisor: Manjunath Krishnapur, department of mathematics, IISc, Bengaluru.

- Techniques for recovering sparse signal from a linear measurement.

ACHIEVEMENTS *KVPY fellow*

Qualified KVPY exam in 2018 with all india rank 61.

Keysight IoT challenge 2019 entry accepted

Distributed Real-Time Air quality Indexing System concept accepted as an entry in the smart land category of Keysight IoT challenge ([linked here](#))

**OTHER
ACTIVITIES**

Volunteered for various events in *Pravega 2018 and 2019* at IISc.

Performed Belousov-Zhabotinsky reaction as an exhibit in the UG chemistry lab during open day IISc, 2020

Represented City Central School in *South Zone Sahodaya sports meet* for the events long jump, 100m sprint and 4×100m relay.