

# Ambrissh S Raghav

+91-9952222309 | [ambrissh23@iiserbpr.ac.in](mailto:ambrissh23@iiserbpr.ac.in)

Indian Institute of Science Education and Research • Berhampur, Odisha, India- 760003

## PROFILE

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I am a second-year undergraduate student in the BS-MS program at IISER Berhampur, with a strong passion for **quantum cryptography** and its real-world applications. My primary research interests lie in developing software and services that integrate **Post-Quantum Cryptography (PQC)** and **Quantum Key Distribution (QKD)** protocols to build secure communication systems.

In addition to my academic pursuits, I run a science communication platform and YouTube podcast series titled '**Metaverse Entangled**', where I engage with graduate students and researchers from around the globe to discuss their work and share insights from the frontiers of science. I also produce content aimed at making complex scientific ideas more accessible to the general public.

I am highly motivated to deepen my expertise in quantum technologies and contribute meaningfully to the advancement of quantum computing and cryptographic systems.

Metaverse Entangled YouTube channel: [Metaverse Entangled](#)

## EDUCATION

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| • <b>IISER Berhampur</b>               | August 2023 -                 |
| Integrated Bachelors and Masters       | Odisha, India                 |
| Currently: 2nd year                    |                               |
| • <b>Thamarai International School</b> | March 2023                    |
| Secondary and Sr. Secondary Education  | Thanjavur, Tamil Nadu , India |

## SKILLS

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- **Computational Skills:** Python, LaTeX , MATLAB
- **Soft skills:** Very strong organizational skills, Management, Adaptability, Critical thinking, Teamwork

## ADDITIONAL ACTIVITIES ENGAGED IN

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- **Actively running a youtube podcast series inviting scholars all over the globe and discussing their research**
- **Co-ordinator, 137 Inverse (IISER BPR PHYSICS CLUB)**
  - Co hosted a quizzing event and multiple talk series events in the institute
  - Been in the organizing committee for the science outreach event STREAM
  - Actively engaging myself in a lot of Science Related Content Writing
- **Video podcast lead and core member of JIGYANSA (Outreach club of IISER BPR )**
- **Organized a lot of non academic and cultural events in the institute**

## ACCOMPLISHMENTS

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- All India Best Cadet - National Cadet Corps
- Rank 2- SOF Maths Olympiad
- Rank 1- SOF Science Olympiad

## PROJECTS

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- Undertook an online reading project on the Basics of Quantum Information and Computing at the summer break of 2024

### **RELEVANT COURSES TAKEN**

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Classical mechanics, Optics, Electrodynamics, Quantum mechanics, single variable calculus, Linear Algebra ,  
Multivariable Calculus

### **ADDITIONAL INFORMATION**

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**Languages:** English, Hindi, Tamil

**Hobbies and Interests:** Cubing, video editing, Coding .