

Pranat Kumar Panda

Contact no. - +9176539036

Email-id: pranatkumarpanda2000@gmail.com

Institute Email: 213221028@nitt.edu

CAREER OBJECTIVE

My goal of life is to serve the society through scientific research

EDUCATION

National Institute of Technology, Tiruchirappalli

Pursuing

M.Sc. (Physics)

Joined in September 2021

Department of Physics

CGPA - 9.24(till 2nd sem)

Pragati Degree College, Bhawanipatna

Odisha (India)

Sambalpur University

B.Sc. (Physics(H))

2018-2021

Percentage: 88% (Hons.)

Rank – 3rd (University)

Government Junior College, Bhawanipatna

Odisha (India)

HSC (12th Grade), Council of Higher Secondary Education, Odisha

2017

Science, Percentage: 69.7%

Rank – 3rd (College)

Saraswati Vidya Mandir, Braja Vihar, Bhawanipatna

Odisha (India)

SSC (10th Grade), Board of Secondary Education, Odisha

2015

Percentage: 83%

AWARDS and ACHIEVEMENTS

- Qualified IIT JAM 2021
- Third Rank (Physics Hons.) in B.Sc. Sambalpur University
- Bronze Medal(3rd) in Race Walking(10km) in State Athletics Open Meet 2018, Odisha
- 3rd in District Youth Mock Parliament 2020

AREA OF INTEREST

- 1) Quantum Information & Computation
- 2) Ultra-fast laser spectroscopy & Light-Matter Interaction
- 3) Quantum Optics
- 4) Nanofabrication and Nanotechnology

WORK EXPERIENCE AND RESEARCH PROJECT

Seminars

- Aspects of “Unification of Laws of Physics”
- “A Poisoned Heart of India” – Air Pollution in New Delhi- in B.Sc.
- “Nuclear Quadrupole Resonance Spectroscopy”- in Instrumentation course of 2nd semester of M.Sc.
- “Electron Beam Lithography”- in Physics Colloquium of Department of Physics, NIT, Tiruchirappalli
- “Non-linear Optimization using MATLAB”- in Advanced Physics Laboratory course of M.Sc. 3rd semester

Work Experience

- Accountant in District Athletic Association, Kalahandi, Odisha- May 2020 to December 2020

Teaching Experience

- 5 years of teaching to 11th, 12th students, ICSE, CBSE, CHSE

Internship

- **“Photoluminescence and Raman Scattering of Monolayer MoS₂”** - under guidance of Prof. Sessa Vempati, IIT, Bhilai
- **NITK-IEEE Photonics Internship 2022** - worked on Generation of an Optical Link - using Optisystem software
- **“Karyashala”** -Hands on training workshop on PLD, Sputtering, TEM, SEM, EBL, Nano Photolithography organized by National Physics Laboratory, India, MNIT, Jaipur, IIT Kharagpur, IIT Gandhinagar individually - I attended these many workshops to use and get familiar the sophisticated instruments
- **Molecular Dynamics Simulation using MATLAB** implementing Periodic Boundary Condition and Velocity-Verlet Algorithm

Short Term Course and Summer School

- Review Project on “Detection of Cancerous Cell using Quantum Neural Networks”
- DST Sponsored INSPIRE Science Camp (Oct 2015) NIST, Berhampur, Odisha
- ISSAA 2021, IUCAA
- Workshop on Application of High-Performance Computing in Astronomy, IIT Kharagpur
- International Symposium on ‘Physics- Fascination to Aspiration (PhyFA’21)’, NITT-Optica, NIT, Tiruchirappalli
- PtRC Talk on Indian Based Neutrino Observatory (INO)
- **LAZE 2022** - talk by pioneer of z-scan Prof. Mansoor Sheik Bahae and Prof. E Van Stryland, other eminent scientists of India working in z-scan
- **I-STEM Workshop on COMSOL – MEMS Design**

LEADERSHIP

- Constituted a cricket team of my classmates in Pragati Degree College to Participate in Intercollege Tournament
- Working to start a Quantum Computing Club in our institute(NIT, Trichy) to motivate all students in this field

SKILLS & INTERESTS

Computational techniques: MATLAB, Quantum Espresso, PYTHON, QISKIT, LATEX

Language: ENGLISH, HINDI, ODIA (Mother Tongue)

Interests:

- ❖ Scientific Research
- ❖ Teaching
- ❖ Singing, Professional Cricketer

DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and beliefs.

Pranat Kumar Panda