SNIGDHASHREE MALLICK

International Institute of Information Technology, Bangalore

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Education

International Institute of Information Technology, Bangalore **Sep. 2021 – Present**
PhD in Computational Fluid Dynamics *3.53/4*

- Supervisor : Prof. Shiva Kumar Malapaka
- Co-supervisor : Prof. Amit Chattopadhyay

Fakir Mohan University **Aug. 2015 – Jul. 2017**
M.Sc. in Physics(Specialization in Nuclear and Particle Physics) *8.5/10*

Bhadrak Autonomous College (Fakir Mohan University) **Aug. 2012 – Jul. 2015**
B.Sc. in Physics(Hons.) *74.8%*

Kalinga Bharati Residential College,Cuttack **Aug. 2010 – Jun. 2012**
Intermediate (PCMIT) *75.6%*

Chandbali Girls' High School, Chandbali **Jun. 2007 – Jun. 2010**
High School *90.83%*

Experience

Guest Faculty **Sep. 2018 – Jul. 2019**
Chandbali College *Chandbali, Odisha*

- **Delivered** lectures for the subject *Digital Electronics* and *Heat and Thermodynamics*
- Graded around 70 assignments per grading period

Project

Saha Institute Of Nuclear Physics **May 2017 – Jun. 2017**
Summer intern (PI:Prof. Anjali Mukherjee) *Bidhannagar, Kolkata*

- **Explored** the significance of ^{12}C +^{13} C and ^{13}C +^{13} C fusion reactions in astrophysical scenario.
- **Measured** the ^{12}C +^{12} C fusion cross sections at energies reaching the Gamow peak region.

Mentorship

Teaching Assistant | *Introducton to Astronomy and Astrophysics at IIIT Bangalore*

- **2 times** teaching assistant of the course.
- Interactive teaching sessions with students on various topics in Astrophysics.
- Reinforced student learning of skills and materials through daily and weekly check-ins and observations.
- Graded 100+ assignments per grading period to aid the teacher.

Technical Skills

- **Languages** : C, Python, Fortran
- **Tools** : Gudhi library, Ripser,TensorFlow, VisIt, Paraview
- **Relevant Courses** : High Performance Computing, Computational Topology, Advanced Mathematics

Achievements

- Successfully **completed** the Comprehensive exam for PhD in September 2023.
- **Granted** national-level scholarships: National Rural Talent Search(NRTS) in 2008 and NMMS (National Merit-cum-Means Scholarship)in 2009.

Conferences/Workshops

- **Moderated** workshop on "Various Aspects of Quantum Computing" organized by IIITB COMET FOUNDATION on May 19, 2023.
- Attended Bangalore Vis Workshop -2023.

Miscellaneous

- **Attended** Inter-University Centre for Astronomy and Astrophysics-National Centre for Radio Astrophysics(IUCAA-NCRA) Grad school(Oct 2021-Feb 2022).