

PREETI SAHU

Curriculum Vitae

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Department of Physics
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DOB 9th June 1992

RESEARCH INTEREST

Soft Condensed Matter Physics. More specifically, self organization in mechanically heterogeneous mixtures of cells and renormalization of a self propelled cell's motion due to passive background of cells.

EDUCATION

- **Syracuse University, Syracuse, NY, USA**
Ph.D. Physics CURRENT, FROM AUG 2015
- **NISER, Bhubaneshwar, Odisha, India**
Integrated MSc. Physics AUG 2010-JUNE 2015

PROJECTS UNDERTAKEN

- Topic: Rheological Response of Active Glasses** 28th JULY 2014-1st MAY 2015
Guide: DR. A.V. ANIL KUMAR, *NISER, Bhubaneshwar*
- Topic: Study Kinesin Conformational Change in apo-state** SUMMER 2014
Guide: DR. JARED C COCHRAN, *IU, Bloomington*
- Topic: Diffusion in 1D and 2D** SUMMER 2013
Guide: PROF. ABHISHEK DHAR, *ICTS, Bangalore*
- Topic: Interpolating solution in a mechanical model under quench** SUMMER 2012
Guide: DR. SUDIPTA MUKHERJI, *Institute of Physics, Bhubaneshwar*
- Topic: A Study of Genetic Factors for RPL** SUMMER 2011
Guide: DR. DEBASMITA P. ALONE, *NISER, Bhubaneshwar*

SCIENCE CAMPS

Vijyoshi Camp

IISc. Bangalore

26th – 28th NOVEMBER 2011

Attended lectures from all disciplines by eminent scientists of India and abroad.

KVPY Summer Programme

IISER Pune and IISc Bangalore

MAY & NOV 2011 RESPECTIVELY

Comprised of several lectures and institutional visits to IITM (Indian Institute of Tropical Meteorology) and NCL (National Chemical laboratory).

PUBLICATION

'Interpolating solution in a mechanical model under quench'- by Preeti Sahu . PRAYAS Student Journal of Physics. Vol 4 Number 6, (Jan- Mar. 2013) published by IATP [\[Link\]](#)

POSTER PRESENTATIONS

2017 Stevenson Biomaterials Research Poster Competition

TOPIC- Understanding how cells group together in confluent biological tissues

TEACHING EXPERIENCE

- fall 2015: AST 101 (Our Corner of the Universe)
- summer 2016: mentoring REU student
- spring & fall 2016: PHY 221 (General Physics Laboratory I)

ACHIEVEMENTS

- 2014 - Awarded Khorana fellowship to do a 10 weeks summer internship in Indiana University.
- 2014 - Got selected in HRI's VSP and ICTS's S N Bhatt Memorial Excellence Fellowship Program.
- 2013 - Awarded Summer Research Fellowship by Indian Academy of Sciences to work in ICTS.
- 2013 - Runners-up team in a national-level science quiz competition called MIMAMSA 2013.
- 2012 - Batch Topper in Physics Dept. of Physics with SGPA- 9.4.
- Awarded a generous fellowship by Govt. of India under KVPY till present (4 years).
- 2010 - Awarded Govt. sponsored INSPIRE fellowship for 1-year after qualifying NEST examination.

COMPUTER SKILLS

Intermediate Knowledge MATLAB

Advanced Knowledge L^AT_EX
C++, Linux,
MATHEMATICA
Microsoft Windows

PROFESSIONAL SERVICE

1. Active member in organizing 2016 APS Conference for UG Women in Physics
2. Student Representative { UGCS}
3. Physics Student Seminar Convener at NISER

REFERENCES

Lisa Manning - Ph.D. advisor
Syracuse University
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J. M. Schwarz - Ph.D. advisor
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Cristina Marchetti - Ph.D. advisor
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