

PREETI SAHU

Curriculum Vitae

🏠 Physics Building, Room 249
Department of Physics
Syracuse University
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DOB 9th June 1992

RESEARCH INTEREST

Soft Condensed Matter Physics. Currently working with a 2D model, that simulates a cell monolayer, to understand the role of morphological heterogeneity in guiding segregation and pattern formation in a mixture of cells.

EDUCATION

- **Syracuse University, Syracuse, NY, USA** CURRENT, FROM-AUG 2015
PH.D. PHYSICS
- **NISER, Bhubaneshwar, Odisha, India** AUG 2010-JUNE 2015
5-YEARS INTEGRATED BSC.-MSC. PHYSICS

PROJECTS UNDERTAKEN

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

SCIENCE WORKSHOPS

- Mechanics in Morphogenesis workshop** FEB 2018
PCTS, Princeton University
- Summer School- Soft Solids and Complex fluids** FEB 2018
UMass, Amherst
- Monsoon School- Physics of Life** JUN 2013
NCBS-ICTS, Bangalore
- National Science Camp** 2011
IISER Pune & IISc Bangalore

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 [\[Link\]](#)

TEACHING EXPERIENCE

- AST 101:** Our Corner of the Universe FALL 2015
Teaching Assistant for Prof. Cristian Armendariz-Picon
- PHY 221:** General Physics Laboratory I SPRING & FALL 2016
Teaching Assistant for Prof. Walter Freeman
- Mentoring REU student:** Allie Brown SUMMER 2016
Grad Mentor for Prof. Lisa Manning

CONTRIBUTED POSTERS AND PRESENTATIONS

- Poster- *Understanding how cells group together in confluent biological tissues* FEB 2017
Stevenson Biomaterials Research Poster Competition, Syracuse
- Poster- *The search for physical mechanism of cell sorting in bidisperse confluent tissue* FEB 2018
Mechanics in Morphogenesis Poster Competition, PCTS
- Talk- *Mechanical difference insufficient to create sorting in confluent mixtures* MARCH 2018
APS March Meeting

ACHIEVEMENTS

- 2014 - Awarded Khorana fellowship to do a 10 weeks summer internship in Indiana University.
- 2014 - 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- 9.4/10.
- 2011 - Awarded a generous fellowship by Govt. of India under KVPY (4 years)
- 2010 - Awarded Govt. sponsored INSPIRE fellowship for 1-year after qualifying NEST examination

COMPUTER SKILLS

Advanced Knowledge	L ^A T _E X, MATLAB C++, Linux, Excel Microsoft Windows	Intermediate Knowledge	Bash Scripting MATHEMATICA
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EXTRA-CURRICULAR ACTIVITIES

1. UGCS Student Representative & Physics Student Seminar Convener at NISER
2. Hindustani Classical Vocalist
3. Active member in organizing 2016 APS Conference for UG Women in Physics

REFERENCES

Lisa Manning - Ph.D. advisor Syracuse University Dept. of Physics Physics Building, Syracuse, NY 13244, USA mmanning@syr.edu (☎ : 315.443.3920)	Cristina Marchetti - Ph.D. advisor Syracuse University Dept. of Physics Physics Building, Syracuse, NY 13244, USA mcm@phy.syr.edu (☎ : 315.443.2581)	J. M. Schwarz - Ph.D. advisor Syracuse University Dept. of Physics Physics Building, Syracuse, NY 13244, USA jschwarz@physics.syr.edu (☎ : 315.443.3887)
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