

PREETI SAHU

Curriculum Vitae

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DOB 9th June 1992

EDUCATION

- **Syracuse University, Syracuse, NY, USA** CURRENT, FROM-AUG 2015
PH.D. PHYSICS 3.33/4.0
- **NISER, Bhubaneswar, Odisha, India** AUG 2010-JUNE 2015
5-YEARS INTEGRATED BSC.-MSC. PHYSICS 8.3/10

PROJECTS UNDERTAKEN

- Rheological Response of Active Glasses** AUG 2014-MAY 2015
Guide: DR. A.V. ANIL KUMAR, *NISER, Bhubaneswar*
- 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, Bhubaneswar*
- A Study of Genetic Factors for RPL** SUMMER 2011
Guide: DR. DEBASMITA P. ALONE, *NISER, Bhubaneswar*

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

1. '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](#)]
2. 'Large-scale mixing and small-scale demixing in binary vertex model fluids'- by Preeti Sahu, Daniel M. Sussman, M. Cristina Marchetti, M. Lisa Manning, and J. M. Schwarz in preparation.
3. 'Modeling the Solid-Fluid Transition of Ordered Biological Tissues'- by Preeti Sahu*,Janice Kang*, Gonca Erdemci-Tandogan and M. Lisa Manning in preparation.

INVITED TALK

- Talk- *Role of neighbor exchange in fluidization and de-mixing of confluent tissues* MARCH 2019
APS March Meeting

TEACHING EXPERIENCE

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

CONTRIBUTED POSTERS AND PRESENTATIONS

Poster- <i>Understanding how cells group together in confluent biological tissues</i> Stevenson Biomaterials Research Poster Competition, Syracuse	FEB 2017
Poster- <i>The search for physical mechanism of cell sorting in bidisperse confluent tissue</i> Mechanics in Morphogenesis Poster Competition, PCTS	FEB 2018
Talk- <i>Mechanical difference insufficient to create sorting in confluent mixtures</i> APS March Meeting	MARCH 2018
Talk- <i>Role of Morphological Differences in Cell Sorting</i> ICSM Jaipur	DEC 2018

ACHIEVEMENTS

- 2018 - received [SLM travel grant](#) \$1000.
- 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 & Graduate president of SPICMACAY Syracuse
3. Active member in organizing 2016 APS Conference for UG Women in Physics

REFERENCES

Lisa Manning - Ph.D. advisor
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