PREETI SAHU Curriculum Vitae

△ Physics Building, Room 249 Department of Physics Syracuse University Syracuse, NY 13210, USA

EDUCATION

- Syracuse University, Syracuse, NY, USA Ph.D. Physics
- NISER, Bhubaneshwar, Odisha, India 5-years Integrated BSC.-MSC. Physics

PUBLICATIONS

1. Preeti Sahu^{*}, Janice Kang^{*}, Gonca Erdemci-Tandogan and M. Lisa Manning "Nonlinear analysis of the fluid-solid transition in a model for ordered biological tissues," submitted, arXiv:1905.12714 (2019). [arXiv]

2. Preeti Sahu, Daniel M. Sussman, M. Cristina Marchetti, M. Lisa Manning, and J. M. Schwarz "Large-scale mixing and small-scale demixing in a confluent model for biological tissues" submitted, arXiv:1905.00657 (2019). [arXiv]

3. Preeti Sahu "Interpolating solution in a mechanical model under quench" PRAYAS Student Journal of Physics. Vol 4 Number 6, (Jan- Mar. 2013) published by Indian Association of Physics Teachers [Link]

INVITED TALK

Talk- Role of neighbor exchange in fluidization and de-mixing of confluent tissues APS March Meeting [Link]	Mar 2019
TEACHING EXPERIENCE	
Mentoring REU student: Janice Kang Grad Mentor for Prof. Lisa Manning	SUMMER 2018
PHY 221 : General Physics Laboratory I Teaching Assistant for Prof. Walter Freeman	Spring & Fall 2016
Co-mentoring REU student: Allie Brown Grad Mentor for Prof. Lisa Manning	SUMMER 2016
AST 101 : Our Corner of the Universe Teaching Assistant for Prof. Cristian Armendariz-Picon	Fall 2015
Contributed posters and presentations	

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

Current, From-Aug 2015 3.33/4.0 Aug 2010-Jun 2015

N 2015 8.3/10

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UNDERGRADUATE RESEARCH PROJECTS

Rheological Response of Active Glasses Guide: Dr. A.V. ANIL KUMAR, <i>NISER, Bhubaneshwar</i>	2014 - 2015	
Study Kinesin Conformational Change in apo-state Guide: Dr. JARED C COCHRAN, IU, Bloomington	SUMMER 2014	
Diffusion in 1D and 2D Guide: PROF. ABHISHEK DHAR, <i>ICTS</i> , <i>Bangalore</i>	SUMMER 2013	
Interpolating solution in a mechanical model under quench Guide: Dr. SUDIPTA MUKHERJI, Institute of Physics, Bhubaneshwar	SUMMER 2012	
A Study of Genetic Factors for RPL Guide: DR. DEBASMITA P. ALONE, NISER, Bhubaneshwar	SUMMER 2011	
Science Workshops		
Mechanics in Morphogenesis workshop PCTS, Princeton University	Feb 2018	
Summer School- Soft Solids and Complex fluids UMass, Amherst	Summer 2017	
Monsoon School- Physics of Life NCBS-ICTS, Bangalore	Summer 2013	

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	I₄T _E X, MATLAB	Intermediate Knowledge	Bash Scripting
	C++, Linux, Excel		MATHEMATICA, GIT
	Microsoft Windows		

EXTRA-CURRICULAR ACTIVITIES

- 1. Hindustani Classical Vocalist & Graduate president of SPICMACAY Syracuse
- 2. Volunteer for ICAM workshop on Smart and Active Matter at Syracuse University (June 2016)
- 3. Active member in organizing 2016 APS Conference for UG Women in Physics
- 4. UGCS Student Representative & Physics Student Seminar Convener at NISER

References

Lisa Manning - Ph.D. advisor Syracuse University 229-B, Dept. of Physics Physics Building,Syracuse, NY 13244, USA mmanning@syr.edu (): 315.443.3920) Cristina Marchetti - Ph.D. advisor Broida 6235, Dept. of Physics University of California Santa Barbara, CA 93106-9530, USA cmarchetti@ucsb.edu (): 805.893.5228) J. M. Schwarz - Ph.D. advisor Syracuse University 229-A, Dept. of Physics Physics Building,Syracuse, NY 13244, USA jschwarz@physics.syr.edu (): 315.443.3887)