

Dr. Lachit Saikia

Contact Information	Department of Physics Dibru College Dibrugarh, Assam India	e-mail: lachit.iisc@gmail.com lachit@iisc.ac.in Mobile: +91-8618718511
Date of birth	31 December, 1990	
Education	Ph.D. 2014 - 2019 Thesis title: Sculpting colloidal membranes through phase transformations Thesis Advisor: Dr. Purna Sharma Indian Institute of Science (IISc), Bangalore, India	
	M.Sc. Physics 2012 - 2014 M.Sc. thesis title: Study of nonlinear optical properties of Mn doped ZnO nano-structures using single beam z-scan technique Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, Andhra Pradesh, India	
	B.Sc. Physics Honours 2009 - 2012 B.Sc. project title: Token display Sri Sathya Sai Institute of Higher Learning, Brindavan Campus, Bangalore, Karnataka, India	
Publications	Lachit Saikia , Sarkar, T., Thomas, M., Raghunathan, V.A., Sain, A., and Sharma, P. (2017). ‘Curvature instability of chiral colloidal membranes on crystallization’. Nature Communications , 8(1):1160.	
	Lachit Saikia and Sharma, P. ‘Self assembly of cyclic polygon shaped fluid colloidal membranes through pinning’. Soft Matter , 2018, 14, 9959-9966.	
	Lachit Saikia , Shah A.H., P. Pradhan, M. Molli, S. Muthukumar, B. Ahmed, E. Manikandan, S. S. S. Sai, K Venkataramaniah. ‘Enhanced nonlinear optical absorption in Mn doped ZnO nanoparticles’. International Journal of Nanotechnology and Applications , 2014,4,3,39-44.	
	P. Pradhan, M. Molli, L. Kumar V, Lachit Saikia , V. S. Muthukumar, S. Siva Sankar Sai, K Venkataramaniah. ‘Study of nonlinear optical properties of Na doped V2O5 nanoparticles’. International Journal of Nanotechnology and Applications , 2014,4,3, 21-28.	
Teaching experience	Invited teaching assistant in ‘ <i>School on Hands-On Research in Complex System</i> ’, held at ICTP, Trieste, Italy, 2016.	
	Teaching assistant and grader for the course ‘ <i>Mathematical Methods of Physics</i> ’, August - December term, 2016, Indian Institute of Science, Bangalore.	
Academic distinctions and awards	Qualified CSIR-UGC (NET) in December, 2013 (AIR - 142)	
	Qualified GATE 2014 (AIR 48)	

Best poster award in 12th International Conference on Complex Fluids and Soft Matter, COMPFLU-2018 organized by IIT Roorkee.

Best poster award in experiment category at ‘In-house symposium, 2017-18’, Department of Physics, Indian Institute of Science, Bangalore.

Named in BARC OCES/DGFS 2014 merit list

Regional topper in Mathematics and Social Science, AISSCE, 2008. (Shillong Region).

Invited talks

“Soft matter physics”, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, A.P., India, 2017

“Self-assembly of colloidal membranes and curvature instability”, Sri Sathya Sai Institute of Higher Learning, Bangalore, Karnataka, India, 2018

“Research at Indian Institute of Science, Bangalore”, Debraj Roy College, Golghat, Assam, India, 2019

Conferences and Workshops attended

Annual March Meeting of American Physical Society at Boston, MA, USA, March 4-8, 2019.

12th International conference on complex fluids and soft matter, COMPFLU – 2018 held at IIT Roorkee.

Indo-US workshop on Soft Matter, IUWSM – 2018 held at IIT Roorkee.

School on Hands-On Research in Complex System, held at ICTP, Trieste, Italy, 2016.

In-house training course on Light Microscopy held at the Bio-imaging facility, IISc Bangalore, 27-28th February 2017.

New Colloids Discussion Meeting held at Raman Research Institute, Bangalore, India July 19-21, 2015.

Awareness Workshop on Research Opportunities Using the Facilities at VECC, DAE, Kolkata, held at Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, A.P., India on 28 – 29th of June 2013.

National Conference on Networking and Communications, held at Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, A.P., India on 15 – 16th of March 2013.

Outreach activities

Organized scientific demonstrations on the occasion of National Science Day Celebration, 2021 held at Dibru College as a coordinator of the Science Forum, Dibru College, Dibrugarh.

Member of the Dibru college website development committee, 2021.

Member of the green audit committee, Dibru college, Dibrugarh, 2021.