

Rajesh Singh

Curriculum Vitae

Present Position

Graduate student in Physics (2012-)

Supervisor Professor Ronojoy Adhikari

Description Study of hydrodynamic interactions in systems of active colloidal particles

Education

2010–2012 **Master of Science (Physics)**, *Indian Institute of Technology Kanpur*, Kanpur, *CPI – 8.5/10*.

Master thesis: Design and Study of Erbium Doped Fiber Ring Laser

2007–2010 **Bachelor of Science (Physics)**, *University of Delhi*, Delhi, *Percentage – 79*.

Publications

2014 Many-body microhydrodynamics of colloidal particles with active boundary layers.

Rajesh Singh, Somdeb Ghose, and R. Adhikari.

J. Stat. Mech. (2015) P06017

2012 Phase-plane analysis of driven multi-lane exclusion models

Vandana Yadav, Rajesh Singh and Sutapa Mukherji.

J. Stat. Mech. (2012) P04004

Work experience

2015 Teaching assistant: Statistical physics - II - May-Dec 2015

2015 Teaching assistant: Statistical physics - I - Jan-May 2015

2015 Volunteer as student organiser in Soft Matter Young Investigators Meetings 2014 and 2015

2014 Teaching assistant: Classical field theory - Jan-May 2014

2014 Organised students seminars - Soft condensed matter and biological physics : Jul 2013 - Dec 2014

2014 Organised students seminars - Tutorials on Python programming for sciences : Jan-May 2014

Other qualifications

2012 JEST-2012 (Joint entrance screening test for PhD in India)

The Institute of Mathematical Sciences – Chennai 600113, India

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📄 [rajeshrinet.github.io](https://github.com/rajeshrinet)

- 2011 CSIR Scholarship in Physics, JOINT CSIR-UGC TEST held on 18-12-2011.
- 2010 JAM - 2010 for admissions in IITs for M.Sc. (Physics).
- 2010 National top 1% candidate at National Graduate Physics Examination

Computer skills

- Operating systems Linux, Microsoft Windows, Mac OS X
- Programming Python, Cython, C/C++, Matlab, Mathematica, Julia, Fortran

Conferences and Workshops

- 2015 International Conference on Discrete Simulation of Fluid Dynamics, DSFD-2015, 13-17 July 2015
- 2014 Eighth symposium on complex fluids - Jawaharlal Nehru Centre for Advanced Scientific Research Bangalore Bangalore, India, 22-24 December 2014
- 2014 Soft Matter Young Investigators Meeting 5-7 January 2014
- 2013 SERB School and Symposium on Rheology of Complex Fluids - Indian Institute of Technology Delhi, India, 16-20 December 2013
- 2013 4th RRI school on Statistical Physics - Raman Research Institute, India. 01-13 April, 2013

Reference

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