

# Gagan Preet Singh

*One Page Curriculum Vitae*  
Version OP-3.2

## Work Experience

Current, from August 2012

### Masters Project at IISER, Mohali Aspects of formation of Dwarf Galaxies

Presently working with Prof. J S Bagla on aspects of formation of Dwarf Galaxies. This is being done as a part of my Masters Desertation.

May 2012 to July 2012

### Summer Internship at IISER Mohali, Mohali Effect of Cosmological Constant of Galaxy Formation

This mini-project is about effects of presence of Cosmological Constant on formation of Galaxies and Galaxy Clusters. It involves theoretical modelling and numerically simulating the results.

May 2011 to July 2011

### Summer Intern at University of Western Australia Seismic Interference in a Gravitational Wave Detector

Gravitational Wave detectors are very precise equipments and very sensitive Ears. Their readings are affected by the seismic activities. My work here is to build a automated system to look for correlations between the two and to report them.

May 2010 to July 2010

### Summer Intern at NCRA - TIFR, Pune N Body Simulation of Dark Matter Particles

Summer Internship titled n-body simulation of dark matter particles in a self gravitating field and effects of initial perturbation on an evolving system. Mostly involved programming and algorithm development for heavy computation involved in a n-body simulation.

May 2009 to July 2009

### Summer Intern at IISER Mohali, Mohali Genetic Basis of Learning and Memory

I did a summer research project here under Dr. N G Prasad. The research project was to understand the relation between learning and memory capabilities and reproductive abilities. This involved both designing and building an experimental set-up.

## Successful Initiatives

Astronomy and Astrophysics Club, Opportunities Cell,  
Guidance Cell, Debating Club, Literary Fest,  
Youths Attempt to Nurture



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## Education

2008 to Present	Integrated Bachelors and Masters of Science Physics CPI: 7.6 / 10 Indian Institute of Science Education and Research Mohali
2008	Senior Secondary XII Boards 84% XII Boards - ISC The Shri Ram School Aravali
2006	Secondary School X Boards 82% X Boards - ICSE The Shri Ram School Aravali

## Conferences and Schools

2012	Ooty Radio Telescope Upgradation Meet
2011	Indian Conference on Cosmology and Galaxy Formation
2010	INDIGO School on Gravitational Astronomy
2009	IUCAA Intoductory Astronomy and Astrophysics

## Skills

Basic Knowledge	Python, JAVA
Intermediate Knowledge	C, C++, HTML, $\text{\LaTeX}$ , Linux, Computer Hardware Numerical Simulations, Electronics & Instrumentation, LabView &

## Institute Honors

2012	1 <sup>st</sup> Student Member of Student Elections Committee
2011	Invited Member to Governing Senate of IISER M
2010	Invited Member to Governing Senate of IISER M
2009	Member of Disciplinary Committee of IISER M
2008	Scholarship for Higher Education under Innovation in Science Pursuit for Inspired Research