

# Gurjot S. Sidhu

*gurjotssidhu@gmail.com*  
gsidhu.github.io  
+91 852 761 2771

D - 171, First Floor  
Sector 41, NOIDA  
201303, India

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<b>Education</b>	B.Sc. Physics (Honours), Hansraj College, University of Delhi, 2012 - 2015 Std. XII, AISSCE (C.B.S.E.), DAV Public School, 1997 - 2012
<b>Research Interests</b>	Computational Physics - particularly Simulational Physics and Econophysics, Quantum Information and Computation
<b>Research Experience</b>	<div><div><b>Research Intern</b>June 2015 - Aug 2015 Okinawa Institute of Science and Technology, Japan Will be working on characterizing chaotic dynamics for a four mode Bose-Einstein condensate in a double well</div><div><b>Research Assistant</b>Nov 2013 - to date Hansraj College, University of Delhi Studying the real life applications of differential equations and understanding their physical and geometrical aspects, using physical experiments and computer simulations <u>Skills acquired:</u> Simulations (2D and 3D), Scientific programming in Python</div><div><b>Summer Research Intern</b>Jun 2013 - Jul 2013 Department of Physics and Astrophysics, University of Delhi Studied the change in physical, chemical and ferromagnetic properties of Barium-Titanate thin films when doped with transition metal elements <u>Skills acquired:</u> Preparing thin films using chemical methods</div></div>
<b>Computer Skills</b>	<b>Languages</b> Python, C++, MATLAB, HTML, CSS, LaTeX  <b>Projects</b> <b>Simulations</b> Interactive 3D simulations of Simple Harmonic Oscillators Stock market simulation with fixed volatility rate <b>Game Design</b> Implemented a version of Pong and a 2x2x2 Rubik's Cube solver <b>Applet Design</b> Wrote a Linear Algebra module in Python Built a RSS feed reader cum text readability helper applet <b>Graphics Design</b> Designed desktop wallpapers and posters; submissions on deviantart.com have over 40,000 individual page views and 20,000 downloads
<b>Achievements and Honors</b>	High School Valedictorian Academic Merit Award, Std. XII, DAV Public School Merit Certificate, CBSE - (scored 100% in Mathematics, AISSCE) Laureate Certificate, DAVCMC - (scored 100% in Mathematics, AISSCE) 86th percentile globally in Google Code Jam 2014

Gold Medal (State Rank 1), International Olympiad of English Language  
Bronze medal (State Rank 3), Avantika Talent Search Essay Competition  
Best Actor, One Act Play Festival, Takshila Education Society  
Gold Medal, Mahatama Hansraj Sports Tournament (Basketball)  
Silver Medal, District Level School Games (Basketball)

## **Societies**

### **Hansraj Dramatics Society**

Aug 2012 -

Coordinator, Technical Head

to date

Been a part of three productions - won numerous competitions at the inter-university level

In-charge of all PR and technical activities

### **LUMEN - Physics and Electronics Society**

Aug 2013 -

Academic Coordinator, General Secretary

to date

Set up the Schrodinger's Club - Weekly Journal Club of the Department of Physics, Hansraj College

Organised debates, quizzes, seminars and offered general guidance to juniors

## **Work**

## **Experience**

### **Freelance**

Interned with Hindustan Times Education

Wrote pop science and technology reviews for a website

Helped design the curriculum for an ESL course

## **Hobbies**

Theatre, Reading, Football, Basketball, Amateur Software Development