

Gurjot S. Sidhu

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Education	M.Sc. Physics, ETH Zurich, 2015 - 2018 B.Sc. Physics (Honours), Hansraj College, University of Delhi, 2012 - 2015 Std. XII, AISSCE (C.B.S.E.), DAV Public School, 1997 - 2012
Research Interests	Systems Design, Modeling Dynamics, Computational Physics
Research Experience	<div><div>Research Intern</div><div>June 2015 - Aug 2015</div><div>Okinawa Institute of Science and Technology, Japan</div><div>Studied the vortex dynamics of a Bose-Einstein condensate trapped in a harmonic potential particularly for phase windings larger than unity</div><div>Skills acquired: Simulating Quantum Systems using MATLAB, HPC using SLURM workload manager</div></div> <div><div>Research Assistant</div><div>Nov 2013 - Feb 2015</div><div>Hansraj College, University of Delhi</div><div>Studying the real life applications of differential equations and understanding their physical and geometrical aspects, using physical experiments and computer simulations</div><div>Skills acquired: Simulations (2D and 3D), Scientific programming in Python</div></div> <div><div>Summer Research Intern</div><div>Jun 2013 - Jul 2013</div><div>Department of Physics and Astrophysics, University of Delhi</div><div>Studied the change in physical, chemical and ferromagnetic properties of Barium-Titanate thin films when doped with transition metal elements</div><div>Skills acquired: Preparing thin films using chemical methods</div></div>
Work Experience	<div><div>Tutorat</div><div>Oct 2016 - to date</div><div>ISEK, University of Zurich, Zurich</div><div>Working as a research assistant with Prof Johannes Quack, helping translate and interpret texts in Hindi</div><div>Skills acquired: Interpreting interviews from a social anthropological perspective</div></div> <div><div>Freelance</div><div></div><div>Interned with Hindustan Times Education</div></div>
Technical Skills	<div><div>Languages</div><div>Python, MATLAB, LaTeX, C++, HTML, CSS</div></div> <div><div>Modeling</div><div>Infectious Disease Dynamics, Agent Based Modeling of Social Systems</div></div> <div><div>High Performance Computing</div><div>SLURM job scheduler on Sango cluster</div></div>

**Achievements
and Honors**

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
Semi-finalist (Parliamentary Debate) at Shri Ram Debating Festival 2015
Gold Medal (State Rank 1), International Olympiad of English Language
Best Actor, One Act Play Festival, Takshila Education Society
Gold Medal, Mahatama Hansraj Sports Tournament (Basketball)
Silver Medal, District Level School Games (Basketball)

Blueprint Masquerades

Lights and Sounds Assistant
Staged Shakespeare's "The Tempest" to a public audience

Oct 2016 -
to date

Hansraj Dramatics Society

Technical Head
Was a part of four productions - won numerous competitions at the
inter-university level; co-directed a street play
In-charge of all PR and technical activities

Aug 2012 -
April 2015

LUMEN - Physics and Electronics Society

Academic Coordinator, General Secretary
Set up the Schrodinger's Club - Weekly Journal Club of the Department
of Physics, Hansraj College
Organised debates, quizzes, seminars and offered general assistance

Aug 2013 -
April 2015

Hobbies

Theatre, Stand-up comedy, Reading, Football, Amateur Software Development