Gurjot S. Sidhu

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gsidhu.github.io
███████████
█████ Zürich, CH

Education	M.Sc. Physics, ETH Zürich, 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	Computational Social Science, Data-driven Modeling, Modeling Dynamic Systems

Research Experience

Student Researcher — May 2016 - Jun 2016
ETH Zürich, Zürich
Created an agent-based model for the life-cycle of collaboration networks
in a 6-week semester project
Skills acquired: Simulating agent-based models

Research Intern — Jun 2015 - Aug 2015
Okinawa Institute of Science and Technology, Japan
Studied the vortex dynamics of a Bose-Einstein condensate trapped in a
harmonic potential particularly for phase windings larger than unity
Skills acquired: Simulating Quantum Systems, Working on a HPC

Research Assistant — Nov 2013 - Feb 2015
Hansraj College, University of Delhi
Studied real life applications of differential equations and their physical
and geometrical aspects, using physical experiments and computer simulations
Skills acquired: Simulations (2D and 3D) and scientific programming in Python

Summer Research Intern — 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
Skills acquired: Preparing thin films using chemical methods

Work Experience

Tutorat — Oct 2015 - to date
ISEK, University of Zürich, Zürich
Working as a research assistant with Prof Johannes Quack, helping
translate and interpret texts in Hindi
Skills acquired: Interpreting interviews from a social anthropological
perspective

Technical Skills

Languages
Scripting: Python, MATLAB, R, C++
Web Development: HTML, CSS
Documenting: LaTeX, Microsoft Office

Tools
Version Control: Git and SVN
Other: Linux, HPC on supercomputer clusters

Achievements and Honors	High School Valedictorian Academic Merit Award, Std. XII, DAV Public School Merit Certificate, CBSE - (scored 100% in Mathematics, AISSCE)

Co-curricular Activities

Freelancer — Jul 2013 - 2014
Interned with Hindustan Times Education - India's leading national daily
Assisted in creating the curriculum for an ESL course
Technology blogger

Open Mike's Comedy Nights — Nov 2015 - to date
Stand-up comedian
Founding member of Zürich's first open mic stand-up comedy event
Perform monthly events at The International Beer Bar, Zürich

Blueprint Masquerades — Oct 2015 - to date
Actor, Assistant Director
Assisting the director for the Spring 2017 production
Staged Shakespeare's "The Tempest" to a public audience at the Zürich Shakespeare Festival 2016

Hansraj Dramatics Society — Aug 2012 - April 2015
Technical Head, Co-director
Member of four productions (stage and street) that won numerous competitions at the inter-university level
In-charge of all PR and technical activities

LUMEN - Physics and Electronics Society — Aug 2013 - April 2015
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

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

References

1. Dr. Johannes Quack, Assistant Professor
   ISEK, University of Zürich
   johannes.quack@uzh.ch

2. Dr. Chetana Jain, Assistant Professor
   Hansraj College, University of Delhi
   chetanajain11@gmail.com

3. Dr. Dr. Frank Schweitzer, Professor
   Chair of Systems Design, ETH Zürich
   fschweitzer@ethz.ch