Sankalp Gaur | **150070017**
Engineering Physics | **UG Second Year**
Indian Institute of Technology Bombay | **Male**
DOB: 29-06-1997

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2017	9.49
Intermediate/+2	D.A.V. Public School, Pune	D.A.V. Public School, Pune	2015	97.80
Matriculation	D.A.V. Public School, Pune	D.A.V. Public School, Pune	2013	98.40

ACADEMIC ACHIEVEMENTS

- **All India Rank 1** in JEE MAINS 2015
- **All India Rank 56** in JEE ADVANCED 2015
- **AP grade** for outstanding performance in PH 107 (Quantum Physics and Application) and CS 101 (Computer Programming and Utilization)
- **All India Rank 2** in KVPY exam conducted by Department of Science and Technology, Govt. of India, 2014
- Qualified for **Orientation cum Selection Camp** (OCSC) for International Physics Olympiad (IPhO) 2015
- All India Rank 2 in National Entrance Screening Test (NEST) 2015
- All India Rank 3 in National Standard Examination of Chemistry (NSEC) 2014
- All India Rank 3 in National Science Talent Search Examination (NSTSE) 2013
- Awarded **NTSE Scholarship** by NCERT, 2011
- Secured National Rank 7 in International Maths Olympiad (IMO) and National Rank 8 in National Science Olympiad (NSO), conducted by SOF in 2015

PROJECTS

Radio Telescope

Radio Interferometry and Astronomy Project (Institute Technical Project) (ongoing)

- Constructing a **basic interferometer** using parabolic reflectors and available satellite equipment along with a data processor
- Using analog circuits and micro-controllers for **digital signal processing** of the output of the antennas
- Implementing a **positioning and feedback** system for setting the azimuthal and polar angles of the satellite antennas accurately

Meme Dynamics

Non-linear Dynamics Course Project under Prof. Amitabha Nandi (ongoing)

- Project to study the **spread of memes** in internet culture and make an appropriate mathematical model for it using non-linear dynamics

- Keeping track of categories of memes and susceptibility of people towards memes, draw inferences and relate them to the prominent **SIR model** (Susceptible, Infected, Recovered)

Computer Games

Class XII School Project

- Made a single player Cows and Bulls game similar to mastermind
- Made a game where player is supposed to select matching images from an initially unknown grid of images (like the classic picture games)

COURSES COMPLETED AT IITB

- General: Multivariable Calculus, Organic-Inorganic-Physical Chemistry, Quantum Physics and Application, Linear Algebra, Ordinary Differential Equations, Basics of Electricity and Magnetism, Computer Programming and Utilization, Economics, Complex Analysis, Partial Differential Equations
- Engineering Physics: Classical Mechanics, Data Analysis and Interpretation, Introduction to Special Theory of Relativity, Thermal Physics, Non-Linear Dynamics
- Electrical: Introduction to Electrical Systems, Introduction to Electronics, Signals and Systems

CODING SKILLS

- Intermediate: C++, Java, Python
- Beginner: HTML, MATLAB, LaTex, Arduino, AVR

EXTRA-CURRICULAR ACTIVITIES

- Stood 1st, all over India, in **Tata Power and Energy Club** Quiz 2010
- Won Energise, the quiz conducted by Energy Club, IIT Bombay, 2016
- Team obtained 4th position in **Logic GC** 2015 among more than 500 participants of IITB
- Participated in XLR8 and Line Follower Competitions at IITB
- Good at computer games; reached World Rank 2 on gaming site agame.com