



Ameya Sahasrabudhe  
Chemistry  
Indian Institute of Technology, Bombay

08103009  
UG Third Year(Dual Degree )  
Male  
DOB: 21/07/1989

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.33
Intermediate/+2	Andhra Pradesh State Board	Vijaya ratna Junior College	2007	78.70
Matriculation	CBSE	Shantiniketan Vidyalaya	2005	93.20

#### Scholastic Achievements

- Qualified **IIT-JEE 2008** with a percentile of 98.7 among 300,000 other candidates.
- Qualified the **AIEEE-2008** (All India Engineering Entrance Examination) among 750,000 candidates with a percentile of 99.26.
- **Topped** the district of Rangareddy, Andhra Pradesh in the CBSE 10<sup>th</sup> Board Exam.
- Awarded the top 0.1% **certificate of merit** for the **English** language in CBSE 2005.
- Secured **33<sup>rd</sup>** position in the South Zone in the All India Green Olympiad, 2004.

#### Projects Undertaken

##### • Telomere mediated molecular therapeutics (Summer 2010 – present)

- Designed and iterated ligand structures to determine optimal binding with DNA telomeric strands, using **computational determination** of chemical parameters
- Worked with Corona, an IIT Bombay **supercomputing facility**
- This research has direct application in checking **cancer cell growth**  
Guide: Prof. Pradeep Kumar

##### • Work Visit to Rashtriya Chemicals and Fertilizers (Spring 2009)

Studied the layout and functioning of the RCF sulfuric acid plant in Chembur and submitted a report on its working. Key points of discussion were further optimization and energy conservation using heat recirculation techniques.  
Guide: Prof. Sanjay Mahajani

##### • Digital Diary with Graphic Interface (Autumn 2008)

Coded a digital diary with tools like Contacts, Search Function, Calculator, Calendar and a game of “naughts n crosses” using C++.  
Guide: Prof. Abhiram Ranade

#### Software Skills

- **Programming Languages and Web Designing Skills:** C++, Python, Javascript, HTML.
- **Scientific:** Chem-Office, pyMol, Gaussian, MGL Tools (Molecule design, docking)

#### Volunteer Work

##### • Work with NGO Prayas (May – June 2010)

- Developed an innovative and demonstrative course for rural schoolchildren aged 8-13, focusing on the basic sciences along with extra-curricular activities
- Conducted a pioneering educational camp for 65 children at Rajapur, Maharashtra
- Apart from basic teaching, conducted a career counseling session, where the children were made aware of opportunities and ways to achieve their goals

## Positions of Responsibility

### ➤ General Secretary for Sports Affairs, IIT Bombay

- **Elected Student Head and In-charge** of all sports activities in IIT Bombay, from **planning to execution**
- Leading a **council of 14 secretaries and 5 nominees**, handling a budget of approx **Rs. 35,00,000/-** and managing sports related activities of **over 7500 students** both at the Intra and Inter-IIT levels
- **Pioneered a Sports Teaching Assistance-ship** program, where prolific sportsmen from campus would conduct coaching classes for beginners in their field of expertise, and in turn receive a stipend from the institute for their time and service

## Extra-curricular Activities

### ➤ Technical

- Was a part of the mechanical development team of the IIT Bombay ROBOCON-2010, in which we reached the **semi-final** in the All India Eliminations

### ➤ Sports

- Won an individual **Bronze** Medal in the 100m and stood 4th in the 200m sprint at **Inter IIT Sports Meet**, Kanpur, 2010, also anchoring the team to a **Silver** medal in the 4x400m event
- As **Captain**, lead the team to a **Gold** in the 4x100m and a **Silver** in the 4x400m events and won an individual **Silver** medal in the 100m and and a **Gold** in the 200m sprint
- Stood **Second** and **Ninth** at the Freshman and General Cross Country races respectively
- Awarded **A grade** for successfully completing the 26 day Basic Mountaineering Course at the Directorate of Mountaineering and Allied Sports, Manali, Himachal Pradesh
- Represented hostel at Hockey, Football, Swimming and Kho-Kho General Championships

### ➤ Cultural

- Won first prize at the Freshman **Extempore Speaking** competition
- Won second prize for hostel in the design event of the **Fine Arts** General Championship
- Was the **Human Resource Incharge** from Hostel 3 for the **First Prize** winning Performing Arts festival, 2010, managing a work force of students from 4 hostels
- Reached the Semi-Final stage of the **JAM** for hostel in the General Championship

## Awards and Accolades

- Awarded the **Institute Sports Person of the Year** award, given to a single student across the institute for displaying exemplary proficiency at sport and leadership alike
- Awarded an **Institute Sports Special Mention** for contribution to the campus sports scenario and performance at the Inter IIT Sports meet, 2009
- Awarded Hostel **Sports Colour** for two consecutive years for winning representations in the General Championships
- Awarded a **Special Mention** for two consecutive years for setting up the Prod and as HR incharge for Hostel Three's **2<sup>nd</sup>** and **1<sup>st</sup>** place winning entries in the Performing Arts Festival
- Was declared the **Freshman of the semester** (Autumn) by the Hostel 3 Council