



**Kriti Jain**  
**Metallurgical Engineering & Material Science**  
**Indian Institute of Technology, Bombay**  
**Specialization: Ceramics & Composites**

**09D11017**  
**UG Third Year(Dual Degree )**  
**Female**  
**DOB: 09/09/1991**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.26
Intermediate/+2	C.B.S.E	Modi Public School, Kota	2009	93.60
Matriculation	C.B.S.E	Modern Senior Secondary School, Kota	2007	92.20

#### ACADEMIC ACHIEVEMENTS

- Cleared **IIT-Joint Entrance Exam** in first attempt with **99.35 percentile** (2009)
- Cleared **All India Engineering Entrance Exam** with **99.99 percentile** (2009)
- Placed among the **top 1% candidates** in **National Chemistry Olympiad** at state level (2009)
- Placed among the **top 10% candidates** in **National Physics Olympiad** at state level (2009)
- Cleared first level of **National Science Olympiad** with **99.5 percentile (AIR-49)** and secured **AIR-369 in level 2** (2004)
- Cleared first level of **National Science Olympiad** with **98.27 percentile (AIR-238)** and secured **AIR-125 in level 2** (2003)
- Awarded the **Certificate of Merit** by C.B.S.E. in **Mathematics** in **AISSE 2007** (Matriculation)
- Awarded the **General Proficiency certificate** for 2005-2006 by Modern Senior Secondary School

#### ACHIEVEMENTS & AWARDS

- Recipient of **KPMG Scholarship** for 2 consecutive years for appreciable academic performance in IIT Bombay
- Recipient of **Central Sector Scholarship** for excellent academic performance in AISSCE 2009 awarded by C.B.S.E.
- Recipient of **IIT Bombay Heritage Fund Scholarship** for appreciable academic performance in IIT Bombay
- Recipient of **SSS Brilliant Student Medal 2 times** (awarded by **Mrs. Pratibha Patil**, then Governor of Rajasthan and **Mr. Ghanshyam Mantri**, Education Minister of Rajasthan, respectively) in year 2004 and 2006

#### SUMMER INTERNSHIP

**Project: Characterization of Cu-Zn-Al Shape Memory Alloys** (45 days, May-June, 2011)

**Guide:** Prof. Madangopal Krishnan, Head, Functional Materials Section, MSD, Bhabha Atomic Research Center

- Studied the microstructure and phase transformation characteristics using **X-ray diffraction technique, differential scanning calorimetry and optical microscopy**
- Involved **indexing of complex internally faulted 18R martensite structure**, distinguishing the various self accommodating arrangements using polarized light microscopy
- **A new observation was made** on the nature of the disordered-B2 and B2-DO3 order-disorder transformations in Cu-Zn-Al alloys during heating & cooling in a DSC
- **A visit to the nuclear reactor**, introducing the various concepts involved in its working in detail

#### KEY ACADEMIC PROJECTS

- **C++ project: Mini National UID for IIT Campus** (autumn 2009)  
(Guide: Prof. Deepak Phatak, Computer Science & Engineering, IIT Bombay)  
Part of the 5 member team, worked on fingerprint verification and detection of any fake entry into the system.
- **Study of the structure failure measures taken in building a mega structure** (autumn 2010)  
(Guide: Prof. Narsimhan, MEMS, IIT Bombay)

Prepared a presentation with a 3-D model on Howrah Bridge, Kolkata and studied the mechanics of materials involved in building the mega structure and the measures taken to resist structure failure

- **MATLAB project** *(autumn 2010)*

(Guide: Prof. N. Vishwanathan, MEMS, IIT Bombay)

Using MATLAB worked on a problem involving transport phenomenon fundamentals and presented a demonstration on the same

- **Study of slip by edge dislocation** *(spring 2010)*

(Guide: Prof. Ajay Panwar, MEMS, IIT Bombay)

Made a 3-D model displaying the phenomenon of slip by edge dislocation motion and studied its working process

## ADDITIONAL LEARNING

Control Systems & Communication Engineering, Introduction to Analog Electronics

## TECHNICAL SKILLS

- **Tools & Software Packages:** Photoshop, CSS, Microsoft Office
- **Programming Languages:** C, C++, HTML and JavaScript
- **Operating Systems:** Linux, Windows Xp/Vista/7

## POSITIONS OF RESPONSIBILITY

- **Web System Administrator, MEMS Dept., IIT Bombay** *(April 2011- present)*
  - Handling the department website, including **web designing**, site **structure planning** and **content collection & development**
  - Responsibilities include gathering latest information, catering to all faculty members, students & staff members of the department
  - Heading 2 secretaries directly, part of a 16 member 2-tier team, all headed by a General Secretary
- **Hostel Maintenance Secretary, Hostel 10** *(2010-2011)*
  - Part of a 2-tier team, involving 5 councilors & 20 secretaries, headed by a General Secretary
  - Catering to all maintenance related issues in the hostel, hosting around 500 students
- **Coordinator, Media and Marketing, Techfest 2010**, Asia's biggest technical college festival *(2010-2011)*
  - Involves handling of media and publicity of the event
  - Contacting financial institutions for marketing of the event

## EXTRA CURRICULAR ACTIVITIES

- **Designed and fabricated a wireless remote controlled car** in autumn 2009 for an institute level competition
- Stood **4<sup>th</sup>** in **Hindi creative writing general championship**, an inter-hostel event
- Secured **4<sup>th</sup>** position in **Ad-making general championship**
- Stood **1<sup>st</sup>** in **mixed cricket**, a fun event held at institute level
- Performed in 'Kshitiz' in the annual sophomore productions, a dramatics event (**Sophie Prod**)
- Performed in the play 'Zoon' in the **Performing Arts Festival (PAF) 2010** as part of the dramatics team, stood **2<sup>nd</sup>** in the event
- Performed a **street play in Hiranandani, Mumbai** for the purpose of creating public awareness regarding increasing cell tower radiations of mobile phones
- Stood **1<sup>st</sup>** in **T-Shirt making** & **3<sup>rd</sup>** in **material scavenger hunt** organized as a part of **Padarth 2011 & Padarth 2010** respectively, the annual department fest, MEMS, IIT Bombay
- **Exhibitor at TechConnect**, part of the Technical festival of IIT Bombay, Techfest, representing the department, reaching to approximately 20,000 people