

## **CURRICULAM VITAE**



NAME- SAMARENDRA ROY

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North 24 Parganas, Kolkata-700028, Kolkata, India

### **Career Objective:**

To associate with an organisation where I can contribute my knowledge and skills as a teaching faculty or as a researcher, and keep on learning in different fields of physical science.

### **Present Status:**

Pursuing PhD in School of Nano science and Technology, under Material Science Department, Indian Institute of Technology, Kharagpur, under supervision of Prof. Shibayan Roy and Prof. Indrani Sen.

**Project Title-** *“Design and development of high temperature and high strength Aluminum alloy by nanostructural engineering.”*

### **Post Graduate Thesis:**

*“Simulation of the effect of ion irradiation on nanostructured materials”* under supervision of Dr. Debasish Datta (Assistant Professor, Presidency University, Kolkata)

Ion beam irradiated in nanostructured material have a high potential in the fields material science, engineering, healthcare, agriculture, security and many other. But the development of modelling and simulation of ion irradiation on nanostructures is in its nascent stage. Conventional Monte Carlo simulation codes available in the field of ion-solid interaction do not have the provision to define nanoshapes within their coding environment and molecular dynamics is more resource hungry and takes a huge time to complete. There are some open source

computer codes and programmes ( SRIM,TRIM,IRADINA etc.) available to simulate ion-solid interaction. This project was aimed to deal with these existing Monte Carlo codes to predict the effect of swift heavy ion irradiation on nanoshapes.

### **Broad Areas of Interest:**

Experimental and theoretical condensed matter physics, Computational Science.

### **Educational Qualification:**

<b>Degree/exam &amp; year</b>	<b>School/ College/ University</b>	<b>Board/ University</b>	<b>Subjects/ Specialization</b>	<b>Marks/ CGPA</b>
Masters of Science (2017)	Presidency University	Presidency University	Physics (Condensed Matter Physics)	7.47
Bachelor of Science(2015)	Maulana Azad College	Calcutta University	Physics	65.875%
Higher Secondary(2012)	Dum Dum Baidyanath Institution	WBCHSE	Bengali, English, Physics,Mathematics, Chemistry, Biology,	88.8%
Secondary (Madhyamik) (2010)	Dum Dum Baidyanath Institution	WBBSE	Bengali, English, Mathematics, Physical Science, Life Science, History,Geography	88.125%

### **Skills and Achievements:**

- Qualified GATE 2017, Subject- Physics, All India Rank-642.
- INSPIRE Scholarship (Department of Science and Technology, Ministry of Science and Technology, Govt. Of India) holder for the years 2012-17.
- Selected for “Scholarship for College & University Students” of govt of India, 2012.

**Computer Knowledge-** Advanced Course on Fundamental of Computer, under Electronics Corporation of India (ECIT, A govt of India enterprise).

**Languages Known-** Bengali, English, Hindi.

### **Hobbies & Extra Curricular Activities:**

- Completed 5<sup>th</sup> year in Fine Arts from Sarba Bharatiya Charu Kala Mandir.
- Completed 3<sup>rd</sup> year in Classical Music & Rabindra Sangeet from Bangiya Sangeet Kala Kendra
- Have keen interest in Literature, Films, Sports, Music, Politics, playing guitar.

### **Personal details:**

- **Name** - Samarendra Roy
- **Father's Name** - Madan Gopal Roy
- **Mother's Name** - Namita Roy
- **Date of Birth** - 31<sup>st</sup> October, 1994.
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### **Declaration:**

I hereby declare that the above informations are correct to the best of my knowledge.

Date- 22<sup>nd</sup> July, 2017

Place- Kolkata, India.



**Samarendra Roy**