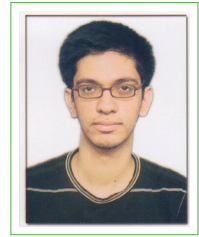


Abhijit Chakraborty

Curriculum Vitae

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Personal Information

Born June 10, 1994 at Asansol, West Bengal, India
Citizenship Indian
Address G-2, Krishna Apartment, Aradanga, Asansol-713303, West Bengal, India
Institute Indian Institute of Science Education and Research Kolkata, West Bengal, India

Education

2012–2017 **BS MS Dual Degree in Physics**, *Indian Institute of Science Education and Research Kolkata*, Kolkata, India, **Current CGPA:** (after 8 semesters) **9.49/10..**
2010–2012 **Higher Secondary (10+2) in Science**, *Asansol Old Station High School*, Asansol, India, **Percentage Obtained: 93%**.
2009–2010 **Secondary Study (10th Grade)**, *Asansol Ramakrishna Mission High School*, Asansol, India, **Percentage Obtained: 94.5%**.

Achievements

- Selected for **DAAD (Indo – German Exchange program) WISE** scholarship, 2015, for a summer internship at *University of Heidelberg, Germany*.
- Selected as a **KVPY (Kishore Vaigyanik Protsahan Yojana) Fellow**, 2010, Stream SA, All India Rank: 93. This is a program initiated by the Government of India to nurture the skills of students highly motivated to pursue a career in research.
- Awarded the **Mamraj Agarwal Prize by the Governor of West Bengal, India** for securing the 3rd rank in the state, in **10th standard** board exam conducted by West Bengal Board of Secondary Education (WBSE), West Bengal.
- Ranked **among top 15** in the state of West Bengal in **12th standard** board exam conducted by WBCHSE.
- Ranked **among top 10** in **Achievement cum Diagnostic test in Mathematics**, 2007, organized by Center for Pedagogical Studies in Mathematics.

Master thesis

Title *Stability analysis of various dark energy models: Quintessence and K-essence*
Supervisors Prof. Narayan Banerjee, Dr. Anandamohan Ghosh

Institute Indian Institute of Science Education and Research Kolkata

Duration June 2016 - Ongoing.

Research Experience

- Summer 2015 **Topic:** *To investigate the 3-body encounters consisting of a binary supermassive black hole and stars from a globular cluster using chain regularization algorithm.*
Supervisor: [Prof. Andreas Just](#), Faculty at ZAH (Center for Astronomy), ARI, University of Heidelberg, Germany.
- Summer 2014 **Topic:** *A brief study on the properties of materials with negative refractive index and solid state analogue of black hole.*
Supervisor: [Prof. Subir Ghosh](#), Faculty at Physics and Applied Mathematics Unit, Indian Statistical Institute, Kolkata.
- Summer 2013 **Topic:** *The experimental study of the dynamics of two coupled modified Wienbridge Oscillator and Chua Oscillator.*
Supervisor: [Dr. Md. Nurujjaman](#), Faculty at NIT, Sikkim.
- Summer 2012 **Topic:** *A new method of solving linear differential equations and its application in harmonic oscillator problem.*
Supervisor: [Prof. Prasanta Panigrahi](#), Faculty at IISER Kolkata.

Other Educational Experiences

Attended a seminar on [Particle detection at LHC](#), by Prof. Amitava Datta, at IISER Kolkata, 2012, Attended a popular lecture by Prof. Ashok Sen on [Basics of string theory](#), at IISER Kolkata, 2014, Attended a lecture by Dr. Rajesh K. Nayak on [Detection of Gravitational Waves by LIGO](#), at IISER Kolkata, 2016, Attended a lecture by Field Medalist Dr. Cedric Villani, at IISER Kolkata, 2016. Other academic projects carried out during course works: [Radio-frequency inhomogeneity in NMR spectroscopy](#), [Simulation of Rabi oscillations in a spin 1/2 system](#), [Simulation of spreading of a disease in a population](#), [Designing a 'Gauss Rifle'](#)

Languages

Fluent speaker and good proficiency in listening and reading. General GRE Verbal score: **163/170 (92 percentile)**. TOEFL iBT :110, R-29, L-29, S-24, W-28. Mother tongue is Bengali and also well versed in Hindi.

Computer skills

- **Scripting Languages:** C, Python, Fortran 90, Matlab, R, Mathematica.
- **Mark up languages:** \LaTeX .

Extra-curricular Interests

I love reading story books and writing stories. I am also interested in playing football, table-tennis, and quiz. I have organized science events at my institute, and participated in local science exhibitions to demonstrate various phenomena to the layman. I love to travel and experience the culture of different places and people.