



# Debanuj Chatterjee

## Curriculum Vitae

*"I have not failed. I have just found 10,000 ways that won't work." - Thomas Edison*

### Application

2016 **Young Ambassador Program, DAAD.**

### Personal Information

D.O.B. 26-09-1993

Gender Male

Nationality Indian

### Education

2012–present **5 year integrated BS-MS in Physics(5<sup>th</sup> year)**, *Indian Institute of Science Education and Research, Kolkata, GPA – 8.96.*

2012 **Higher Secondary Examination(CBSE)**, *Bhavan's Gangabux Kanoria Vidya-mandir, Kolkata, GPA – 9.1.*

2010 **Secondary Examination(Madhyamik)**, *Ramakrishna Mission Vidyalaya, Narendrapur, GPA – 8.9.*

### Awards

2012 **KVPY Scholarship** *from Indian Institute of Science, Bangalore*

2014 **NIUS Fellowship** *from Homi Bhaba Centre for Science Education, Mumbai*

2015 **Charpak Research Internship Scholarship** *from Campus France*

2015 **Optics and Photonics Education Scholarship** *from SPIE*

2016 **DAAD-WISE Scholarship** *from DAAD*

62 R. N. Guha road, Block-A, Flat-2D, DumDum – Kolkata 700028

☎ +91 9051020655 • ☎ +91 033 25590057

✉ [dcphysicist@gmail.com](mailto:dcphysicist@gmail.com)

## Research Experience

### Sponsored Projects

- 2016 **DAAD-WISE Program**, supervised by Dr. Sebastian Hofferberth, University of Stuttgart.  
A STUDY ON STRONG INTERACTIONS IN RYDBERG ATOMS USING ELECTROMAGNETICALLY INDUCED TRANSPARENCY(EIT)
- 2015 **Charpak Research Internship Program**, supervised by Dr. Fabien Bretenaker and Dr. Fabienne Goldfarb, Laboratoire Aime Cotton, Paris.  
THE TORTOISE AND THE LIGHT
- 2014 **NIUS Program**, supervised by Dr. Paresh K. Joshi and Dr. Rudrajyoti Palit, Tata Institute of Fundamental Research, Mumbai.  
SIMULATING A CO-AXIAL HIGH PURITY GERMANIUM(HPGe) DETECTOR
- 2013 **IISER Kolkata Summer Internship Program**, supervised by Dr. Supratim Sen-gupta, IISER Kolkata.  
EXPLORING THE QUASI-SPECIES EQUATION AND THE EVOLUTIONARY DYNAMICS OF A POPULATION CONTAINING RNA-LIKE MOLECULES

### Term Projects

- 2016 **Course:Advanced Experimental Physics lab**, supervised by Dr. Ayan Banerjee, IISER Kolkata.  
MIE SCATTERING OF AN ARBITRARY BEAM BY A SPHERE
- 2016 **Course:Research Methodology**, supervised by Dr. Rajesh K. Nayak, IISER Kolkata.  
SHALL WE TRUST THE SMALL ANGLE APPROXIMATION?
- 2015 **Course:Condensed Matter lab**, supervised by Dr. Bhavtosh Bansal, IISER Kolkata.  
AN APPROACH TO QUANTIFY COLLECTIVE DYNAMICS IN ACTIVE MATTER USING IMAGE PROCESSING IN MATLAB
- 2015 **Course:Nuclear Physics lab**, supervised by Dr. Bipul Pal, IISER Kolkata.  
A NOVEL APPROACH FOR LOCATING A GAMMA RAY SOURCE USING COMPTON SCATTERING
- 2013 **Course:Basic Electricity and Magnetism**, supervised by Dr. Dibyendu Nandi, IISER Kolkata.  
A SPEAKER WITHOUT ELECTROMAGNET!

### Other Projects

- 2014 **Summer Internship**, supervised by Dr. Bichitra Nandi Ganguly, Saha Institute of Nuclear Physics, Kolkata.  
SYNTHESIS AND STUDY OF BIO-CONJUGATED GAO(OH) NANOPARTICLES, A POTENTIAL CANDIDATE FOR CANCER DIAGNOSIS USING POSITRON EMISSION TOMOGRAPHY (PET)
- 2013 **Summer Internship**, supervised by Dr. Bipul Pal, IISER Kolkata.  
THE ANALYSIS OF TRANSIENT MOTION IN A FORCED OSCILLATOR USING A MOTION TRACKER SOFTWARE

62 R. N. Guha road, Block-A, Flat-2D, DumDum – Kolkata 700028

☎ +91 9051020655 • ☎ +91 033 25590057

✉ dcphysicist@gmail.com

## Research Visits

2015 **SPIE Optics and Photonics Education Scholarship**, invited by Dr. Sile Nic Chormaic, Okinawa Institute of Science and Technology.

## Technical Skills

Programming Languages Python, Fortran, C++  
Technical Softwares MATLAB, LabView, Gnuplot, Origin, Mathematica,  $\LaTeX$   
Basic Utilities Microsoft Office, Adobe Photoshop  
Operating Systems Linux, windows

## Communication Skills

2013 **Poster presentation competition at Inquivesta 2013** *2nd position*

## Lingual Skills

English	<b>Advanced</b>	<i>Con conversationally fluent (medium of education)</i>
Bengali	<b>Advanced</b>	<i>Con conversationally fluent (mother tongue)</i>
Hindi	<b>Intermediate</b>	<i>Con conversationally fluent</i>
German	<b>Basic (Start auf Deutsch A1)</b>	<i>Basic words and phrases only</i>

## Interests

- Football	- Indian Flute (Bansuri)
- Photography	- Literature

## References

1. **Dr. Nirmalya Ghosh**, Associate Professor, IISER Kolkata.  
email : nghosh@iiserkol.ac.in
2. **Dr. Asok Kumar Nanda**, Professor, IISER Kolkata.  
email : asok@iiserkol.ac.in