



Julián Andrés Gil Santos

"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(5th year)**, *Indian Institute of Science Education and Research*, Kolkata, GPA – 8.96.

2012 **Higher Secondary Examination(CBSE)**, *Bhavan's Gangabux Kanoria Vidyamandir*, 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*

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

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- 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 Sengupta, 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 MATL
- 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

Research Visits
- 2015

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

Technical Skills

Programming Languages	Python, Fortran, C++
Technical Softwares	MATLAB,LabView,Gnuplot,Origin,Mathematica,L ^A T _E X
Basic Utilities	Microsoft Office,Adobe Photoshop
Operating Systems	Linux,windows

Communication Skills

2013	Poster presentation competition at Inquivesta 2013	2nd position
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Lingual Skills

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

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