

NAME AND
AFFILIATION**Subhodeep Sarkar**

Junior Research Fellow (RSS2019005), Semester I
 Department of Applied Sciences
 Indian Institute of Information Technology, Allahabad
 Prayagraj, Uttar Pradesh, India 211012

CONTACT
INFORMATION

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RESEARCH
INTERESTS

General Relativity, Gravitation, and Black Hole Physics

EDUCATION

Indian Institute of Information Technology, Allahabad, Uttar Pradesh, India

Ph.D., Physics, *Expected*: Summer 2023

- Supervisor: Prof. Srijit Bhattacharjee, Indian Institute of Information Technology Allahabad
- Area of Interest: *Black Hole Physics*: Strong Cosmic Censorship Conjecture.

Jamia Millia Islamia (Central University), New Delhi, India

M.Sc., Physics, June 2018

- Result: *Placed in First Class with Distinction*
- CGPA: 9.5
- Rank *Second*
- Thesis Title: *The Generalized Proca Action in the Randall-Sundrum Braneworld Scenario*
- Supervisor: Prof. Anjan Ananda Sen, Centre for Theoretical Physics, Jamia Millia Islamia
- Special Papers: General Theory of Relativity, Quantum Field Theory, Particle Physics, Classical Field Theory

Asutosh College, University of Calcutta, Kolkata, West Bengal, India

B.Sc.(Honours), Physics, June 2016

- Result: *First Class with Honours*
- Subjects: Physics (Honours), Mathematics (General), Computer Science (General)
- Relevant Courses: Special Theory of Relativity, Electromagnetic Theory, Numerical Analysis and Programming, Statistical Mechanics, Advanced Classical Mechanics, Quantum Theory I and II, Mathematical Methods I and II

National Gems Higher Secondary School, Kolkata, West Bengal, India

Indian School Certificate Examination - I.S.C. (Higher Secondary),
 May 2012

- Result: *Secured 96.00% (aggregate)*
- Subjects: Mathematics, Physics, Chemistry, Computer Science, English

Indian Certificate of Secondary Education - I.C.S.E. (Senior Secondary),
 May 2010

- Result: *Secured 95.40% (aggregate)*
- Subjects: English, Mathematics, Science, Social Studies, Computer Applications

PROJECTS AND
INTERNSHIPS**Project Student**

Dec 2018 to Mar 2019

Saha Institute of Nuclear Physics, Kolkata
 Supervisor: Prof. Koushik Dutta
 Topic: Vector Dark Matter Production at the End of Inflation

M.Sc. Project Student

Jul 2017 to May 2018

Centre for Theoretical Physics,
 Jamia Millia Islamia
 Supervisor: Prof. Anjan Ananda Sen
 Topic: Gravitation (Basics of General Relativity, Modified Theories of Gravity,
 Generalized Proca Theories, Warped Geometry and the Randall-Sundrum Model)

Summer Student

May 2017 to Jul 2017

Department of Theoretical Physics,
 Indian Association for the Cultivation of Science
 Supervisor: Prof. Dilip Kr. Ghosh
 Topic: A Reading Course on Quantum Field Theory

Visiting Student

Dec 2016 to Jan 2017

Quantum Information and Computation Group,
 Harish-Chandra Research Institute
 Supervisor: Prof. Ujjwal Sen
 Topic: A Reading Course on Quantum Entanglement and Quantum Information
 Theory

SKILLS

Computer Programming:
 • C, Python (NumPy, Matplotlib), Mathematica, Maple, LaTeX.

REFERENCES

Prof. Srijit Bhattacharjee
 Assistant Professor of Physics
 Department of Applied Sciences
 Indian Institute of Information Technology, Allahabad
 E-mail: srijitb@iiita.ac.in

Prof. Lekha Nair
 Head and Professor of Physics
 Department of Physics
 Jamia Millia Islamia
 E-mail: lnair@jmi.ac.in

Prof. Anjan Ananda Sen
 Professor of Physics
 Centre for Theoretical Physics
 Jamia Millia Islamia
 E-mail: aasen@jmi.ac.in

Prof. Somasri Sen
 Assistant Professor of Physics
 Department of Physics
 Jamia Millia Islamia
 E-mail: ssen@jmi.ac.in

OTHER
INFORMATION

Date of Birth: July 17, 1993
 Nationality: Indian
 Religion: Non-Practicing Hindu
 Languages: English, Bengali, Hindi
 Date of C.V.: January 1, 2020