

Curriculum Vitae

SATYAJIT ROY

SACT

Department of Physics,
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Personal Details:

Date of Birth: 05/06/1993

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Academic Qualification:

- Bachelor of Science (2010-2013) in Physics from Calcutta University, Kolkata.
- Master of Science (2013-2015) in Physics from Calcutta University, Kolkata.
- Bachelor of Education (2016-2018) from Burdwan University, Purba Bardhaman.
- Ph.D. Research Fellow (2021 to present) at University of Calcutta, Kolkata.

Awards and Fellowships:

- Qualified IIT JAM (2013) and IIT GATE (2020)

- SVMCM Scholarship, Department of Higher Education, Government of West Bengal Awarded from 2008 to 2015.

Present Position:

State Aided College Teacher at the Department of Physics, Bangabasi College, Kolkata.

Teaching Experience in years: 08

Date of Joining Service: 21 July 2016

Research Interest:

- Theoretical high energy and nuclear physics
- Deep learning and its applications in theoretical physics

Technical Skill:

- Statistical analysis in **Mathematica**.
- Numerical techniques in **Python**.

Publications :**1. Probing intractable beyond-standard-model parameter spaces armed with Machine Learning**

Satyajit Roy, Rajneil Baruah, Sunando kumar Patra, Subhadeep Mandal

Published in: *Eur.Phys.J.ST* (2024)

DOI: [10.1140/epjs/s11734-024-01236-w](https://doi.org/10.1140/epjs/s11734-024-01236-w)

2. Normalizing Flow-Assisted Nested Sampling on Type-II Seesaw Model

Satyajit Roy, Rajneil Baruah, Sunando kumar Patra, Subhadeep Mandal

[arXiv:2501.16432 [hep-ph]].

Participations in Conferences and Workshops:

- C.K. MAJUMDAR MEMORIAL SUMMER WORKSHOP IN PHYSICS 2013 (July 01 to July 12), S. N. BOSE National Centre for Basic Sciences, Kolkata.
- National Seminar on "Advancement in Modern physics" (August 23 to August 24 , 2013),RKMRC,Kolkata.

- Physics and Applied Mathematics Researchers' Meet- 2015 (18-20 March), Indian Statistical Institute, Kolkata, India.
- A Pre-Masters Workshop in Theoretical Physics (May 15 to May 19, 2017), Bangabasi College, Kolkata.
- VIRTUAL SCHOOL ON FLAVOR STRUCTURE OF THE STANDARD MODEL, (30th August to 12th September, 2021),
- Machine Learning for Particle and Astroparticle Physics(ML4HEP@IOP2024)
IOP,Bhubaneswar,India.
- XXVI DAE-BRNS HEP Symposium 2024, Dec 19-23, Institute of Science, BHU, Varanasi, India.