

Sirswa Kuldeep Shree Ram

PERSONAL DATA

PLACE | DATE OF BIRTH: Sikar, Rajasthan, India | 07 May 2000
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Note: Please click on [hyperlinks](#) for addition details

RESEARCH INTERESTS

Quantum Informatics, $M - \sigma$ relation, Entanglement, Quantum Machine Learning.

EDUCATION

2019-PRESENT | Integrated B.S.-M.S. [DEPARTMENT OF PHYSICS,](#)
[Indian Institute of Science Education and Research \(IISER\), Kolkata.](#)
Major: Physics
GPA: 8.49/10

MAY 2018 | Intermediate in SCIENCE,
[Mukesh Kumar Memo Senior Secondary School, Sikar.](#)
[Board of Secondary Education\(BSER\), Ajmer.](#)
PERCENTAGE: 86 (430/500)

JUNE 2016 | Matriculation,
[Mukesh Kumar Memo Senior Secondary School, Sikar.](#)
[Board of Secondary Education\(BSER\), Ajmer.](#)
PERCENTAGE: 87.33 (524/600)

WORK EXPERIENCE

SUMMER 2020
05/06-06/08 | **Summer Internship, 2020**
Institute: [IISER KOLKATA](#)
Advisor: [PROF. PRASANTA K. PANIGRAHI](#)
Research Topic: Splitting and Acquiring Quantum Information with Perfect W states based on Weak Cross-Kerr Nonlinearities. [CERTIFICATE](#)

SUMMER 2021
10/06-07/07 | **SSERD Internship Batch 10, 2021 (TEAM PLEADIES)**
Institute: [SOCIETY FOR SPACE EDUCATION, RESEARCH AND DEVELOPMENT](#)
Advisor: [SUJAY SHEEDHAR, MAHESH P. AND TEAM](#)
Internal Guide: [DR. SUNDAR MN](#)
Research Topic: Exploring the Relationship between Galaxies and their Super massive Black holes ($M_{bh} - \sigma$ relation and $M_b - M_{bh}$ relation). [CERTIFICATE](#) | [REPORT](#)

SUMMER 2021
12/07-23/07 | **Qiskit Global Summer School, 2021**
Institute: [IBM QUANTUM/QISKIT](#)
Instructors: [AMARIA ABBAS, ZLATKO MINEV AND TEAM](#)
Worked Topics: Quantum Algorithms, Noise, Basic Classical Machine Learning, Kernels, Basic Quantum Machine Learning, etc. [CERTIFICATE](#) | [PARTICIPATION CERTIFICATE](#)

SUMMER 2021
24/07-06/08 | **QWorld Summer School, 2021**
Institute: [QWORLD ASSOCIATION](#)
Instructors: [ÖZLEM SALEHI KÖKEN AND TEAM](#)
Worked Topics: QBRONZE: Quantum operators, Entanglement and superdense coding, quantum teleportation, and Grover's Search.
QSLIVER: Bloch Sphere, Quantum Fourier Transform, Quantum phase estimation, order finding algorithm, and Shor's Algorithm.
Diploma: [BRONZE-QISKIT](#) and [QSLIVER](#)

TECHNICAL SKILLS

Operating System: Windows, Linux (Ubuntu)
General Programming: Python, C, MATLAB, \LaTeX
Other Tools: Quantum-Computing, MS-Office, INKSCAPE, Git, HTML/CSS/JS

PROFESSIONAL DEVELOPEMENT

Completed MOOCs on **Electrodynamics: From Introduction to In-depth Solutions** by KAIST Korea, **Big Bang to Dark Energy** by University of Tokyo, **Black Holes** by University of Alberta ([ALL CERTIFICATES](#)).

CERTIFICATES AND ACHIEVEMENTS

Participated in [Open Source Day, ANITAB.ORG](#) (15th July, 2021) ([CERTIFICATE](#))
Participated in [MATLAB Master Class](#) ([CERTIFICATE](#))
Got 147th position in State Talent Search Examination, sponsored by Prince Academy, Sikar
Got 38th position in National Mathematics Competition, sponsored by Dreamworld

INTERESTS AND ACTIVITIES

Literature: Fiction, Mysteries, Self-Help Book
Games: Khokho, Badminton, Basketball
Other Interests: Gyiming, YOGA and Karate
Trekking and Mountaineering
Past-time: Coding, Stock Market/Crypto Predictions
Languages: English, Hindi, Gujarati, Rajasthani
Activities: Member of Students' Hostel Committee (SHC) at IISER Kolkata from Aug 2019 to July 2020
Convenor of Trekking and Adventure Club at IISER Kolkata at present
Member of Ek Pahel: An Initiative for Free Education at IISER Kolkata at present