

SOHAM S. KAPADIA

i18ph040@phy.svnit.ac.in

+91 8200462004

Ahmedabad, Gujarat, India, 382424

EDUCATION

Sardar Vallabhbhai National Institute of Technology, Surat

5th Year, Int. M. Sc. (5 year)

Department of Physics

August 2018 - Present

CGPA : 8.28/10

PPG Experimetal Highschool, Patan

Higher Secondary Education

Physics, Chemistry, Mathematics

2016-2018

Percentile Rank : 80/100

PPG Experimetal Highschool, Patan

Secondary Education

State Board

2014-2016

Percentile Rank: 99.24/100

District Rank-6

INSTRUMENTATION EXPERIENCE

Optical Spectroscopy (Photoluminescence Measurements, UV-Vis absorption Measurements, and Surface Photovoltage Measurements)

AC Susceptibility Measurement

Familiar with **DC Magnetron Sputtering System**

LabVIEW

Electron Beam Lithography

Spin Coating

X-Ray Diffraction Technique (XRD)

Familiar with **Clemex Semi-Automatic Micro-hardness Testing System**

Different kinds of spectroscopy like- **Raman Spectroscopy**

Lab works with different types of **Interferometers**

Experience of **Chemistry** lab works

RESEARCH EXPERIENCE

The University of Winnipeg

Physics Department, Cosmology and High-Energy Physics

Winnipeg, Canada

May 2020-June 2020

Group led by Dr. Andrew Frey

- This group studies String Theory
- My task was to read about the Holographic Complexity and Non-Trivial Spacetimes that appear in string theory.
- I'll resume my work further in the upcoming winter break.

Raman Research Institute (RRI)

Sky Watch Array Network- SWAN group led by Prof. Avinash A. Deshpande

Bengaluru, Karnataka, India

July 2021-present

- The aim of the research group is to facilitate and conduct searches and studies of fast (typically of sub-second duration) and slow transient radio radiation originating from astronomical sources.
- To facilitate and conduct high angular resolution imaging of discrete galactic and extragalactic sources at low radio frequencies.

ACHIEVEMENTS

1. Selected to participate in **Inpire Camp** organized by **Department of Science and Technology (DST), India**
2. Attended (virtually) the **22nd International Workshop on Neutrinos from Accelerators NUFACT 2021** organized by **Cern in Cagliari, Italy**
3. Participated in **Student Exchange Program** in NIT Raipur, funded by MHRD
4. Was part of the team that stood second in InQuest- A Researchathon by SCOSH, NIT Surat
5. Completed the Startup India Learning Program under SAP, Ashine, NIT Surat
6. Founder of 'Humans of SVNIT', a non-profit community organization
7. Co-founder of a startup called 'Vocally'

RELEVANT COURSES

1. Core Courses

Advanced Quantum Mechanics, Classical Mechanics, Statistical Mechanics, Nuclear and Particle Physics, Math Methods, Thermodynamics, Wave and Optics, Digital Electronics, Space Physics, Condensed Matter Physics

2. Online Course on Quantum Machine Learning

Qiskit Global Summer School 2021 by IBM

3. Online Course

Python for data science on Udemy (ongoing)

SKILLS

Programming skills:

C, Python, Matlab , FORTRAN (basic), LaTeX

Extracurriculars:

Writing, Photography, Painting, Sketching, Playing Badminton, Chess and Tennis.

Languages:

English, Gujarati, French, Hindi

MISCELLANEOUS

I love to write a lot, clicking pictures, reading books and poetry, listening to music, travelling and to watch tv series, movies. I'm also learning to play ukelele.