Curriculum Vitae

Name: **NARAYAN DAS**
MSc
Dept. of Chemistry
IIT Bombay

Personal Details:

Date of Birth: 01/05/1995

Sex: Male

Nationality: Indian

Marital Status: Single

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Languages known:

English
Bengali
Hindi

Objective:

To make optimum utilization of my knowledge and skills effectively to contribute my best in the development of the field of polymer chemistry through cutting edge research and developing insight about the subject.

Academic Qualification:

Examination	University/ Board	Institution	CPI/%	Year
Post-Graduation	IIT Bombay	IIT Bombay	7.15	2017
Graduation	University of Calcutta	R.K.M.V.	61.5%	2015
Intermediate/+2	WBCHSE	Marishda B.K.J Banipith	78%	2012
Matriculation	WBBSE	Ichhabari High School	84.75%	2010

Scholastic Achievements:

2015: **IIT-JAM** (Joint Admission Test for M.SC) qualified: AIR-**320**
2018: **GATE** qualified: AIR-**1160**

Masters Project:

"Studies on cycloaddition of substituted oxidopyrilium species"

Prof Vishwakarma Singh, IIT Bombay, 2016-2017

Developing the methodology of organic synthesis based on mainly cycloaddition reactions. In this project, we studied the cycloaddition reactions involving Oxidopyrilium and examined the substrate scope of dipolar (1, 3) cycloaddition of substituted Oxidopyrilium species.

Motivation

According to me, chemistry is not a distinct branch of science but there is profound relation with physics and Mathematics. My affection for chemistry grew exponentially by scientific thinking and finding explanation of the things happening around us in nature that is to concentrate on the bridge that connects chemistry with biology. I find chemistry close to my heart In my masters project, my work was based on developing the methodology of organic synthesis based on cycloaddition reaction, During this time, I understand different chemical systems in molecular level and hence their behaviour under different reaction condition, like I can visualize the interactions in those systems. By exposing different research problem my thought process developed, my knowledge enriched and I got the confidence to come out as a future independent researcher.

Up next I would like to address some real life application based research problems about inorganic and organic materials based on polymer and their diverse applications. I would like to join projects that involved synthetic techniques of polymeric materials, as well as extensive physical understanding like unique structural, electronic properties that enables their application in drug carrier, sensor.

Research Interests:

- Organic synthesis and methodology
- Organic polymer synthesis and application in drug carrier, sensor
- Functional polymer surface
- Inorganic polymer synthesis and characterization

Software and Programming skills:

Programming Language: Scilab, Fotran77
Software: ChemDraw14, Topspin NMR data analysis
Operating system: Windows, DOS, Ubuntu

Laboratory Skills:

Spectral Analysis: Good theoretical knowledge of NMR, IR, UV-visible and interpretation.
Separation technique: Skilled in separation of compounds by column chromatography, Thin Layer Chromatography.
Instrument handled: FT-IR spectrophotometer, UV- visible Spectrophotometer, Fluorescence Spectrometer, Cyclic Voltammeter, Thermo Scientific Conductivity meter.

Symposium:

- Participated in the Annual Science Festival twice **at Indian Association for the Cultivation of Science, IACS (Cultvision-2013 & 2014)**
- **ACS Seminar on Chemistry** at IIT BOMBAY, 2016

Extracurricular Activities:

- National Social Services (NSS)
- Sprint