

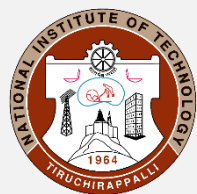
Kailas Mahipal M.

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Educational Qualification

Class	Institute	Marks	Year
X	Vivekodayam BHSS Thrissur	Full A+ (max. mark)	2014 June - 2015 April
XII	Vivekodayam BHSS Thrissur	93.5%; Full A+	2015 July - 2017 April
Bachelor of Science in Chemistry	St. Aloysius College Thrissur	79.9%	2017 August - 2020 May
Master of Science in Chemistry	National Institute of Technology Tiruchirappalli	8.0/10	2020 September - 2022 May

Research/Work Expertise

Centre for Nanotechnology, IIT Guwahati	Project associate in the field of " Development of Transparent Polyfluorinated Polyimide Films for Space Applications " November 2022 – February 2022
Department of Chemistry, NIT Tiruchirappalli	An Intern on " A Turn-On Fluorescent Chemosensor for the Meticulous Detection of Gallium (III) Ion and Its use in Live Cell Imaging, Logic Gates and Keypad Locks " – Research paper- Journal of Photochemistry & Photobiology, A: Chemistry June 2022- August 2022
Vikram Sarabhai Space Centre (VSSC), ISRO	MSc Master thesis on " Synthesis and characterization of Vinyl terminated poly(methylhydrosiloxane) for low earth orbit application " – Paper in communication Dec 2021-May 2022

Department of Chemistry, NIT Tiruchirappalli	Small project on “ Preparation of Indole derivatives ” Dec 2022
IASc-INSa-NASI summer Research Fellowship 2021 Internship at IIT Guwahati	Summer Intern on “ A literature review on Green and circular chemistry, tert-butyl nitrile and tert-butyl hydroperoxide radical mediated reactions ” May 2021-July 2021
Department of Chemistry, St. Aloysius College Thrissur	BSc Major Project on “ Chemical Examination of Lipstick by Thin Layer Chromatography and Instrumental methods ” Feb 2020
Technical & Personal Skills	
Instruments	^1H , ^{13}C , ^{19}F , ^{29}Si -NMR, FT-IR, GPC, TGA, UV-visible, SEM, AFM, Spectro-fluorescence, Optical microscope, TLC, Column chromatography, GC-MS, Raman spectroscopy, P-XRD, High pressure reactions and other basic instruments
Software	Chem-Draw, OriginPro, Mestrenova, Auto dock, Gaussian, Microsoft Office, Mendeley desktop
Communication skills	4 languages; very good in English, Malayalam. Good in Hindi, Tamil
Personal skills	Time management, adaptability, Fast learner
Awards & Fellowships	
IIT-GATE 2021 National Level Entrance Examination Qualified	
IIT-JAM 2020 National Level Entrance Examination Qualified	
Volunteered for G20 2023 at IIT Guwahati	
Full A+ grades (Above 90%) in every subject in class X and class XII	
State Level Typing Competition Participant	
Publications	
A “turn-on” fluorescent chemosensor for the meticulous detection of gallium (III) ion and its use in live cell imaging, logic gates and keypad lock – Journal of	

Photochemistry and Photobiology A: Chemistry volume 437, 1 March 2023, 114493. – <https://doi.org/10.1016/j.photochem.2022.114493>

Webinars

Hands-on training on **Super-resolution optical microscopy** (resolution<10nm) imaging and **Light sheet optical microscopes** and **tweezers** for nano lithography and trapping, patterning and culturing live cells in Mondal's Lab, Indian Institute of Science Bangalore- March 2023

Organized '**NITTOCC 2021**' - NITT organic chemistry conference National level organic chemistry conference which gives lectures and programs mainly on industrial opportunities for chemistry students

Organized online international conference on "**Environmentally Benign Processes, Products and Materials for Sustainable Ecosystem - EBPPM 2021**" by NIT Trichy Chemical Engineering Department

Organized "**Horizon 21 and 22**" - National level symposium by Department of Chemistry, NIT Trichy

Participated in **IITM Webinar** on Water and Sustainability - Circular economy

Participated in The International E-Workshop on "**Electronic Structure Theory and Application to Chemical Systems**"

Extracurricular Activities

National Service Scheme (NSS) volunteer for 2 years – Central Sector Scheme of Government of India

Part of specialized mentoring program **Walk With Scholar (WWS)** for 1 year during Bachelors

Worked as a **Still Photographer** in feature film, short films, and music albums

References		
Dr. A. Sreekanth	National Institute of Technology, Tiruchirappalli, India	
	Associate Professor	+91 94895 51851 sreekanth@nitt.edu
Dr. Deepa Devapal	Vikram Sarabhai Space Centre Trivandrum, India	
	SG Scientist	+91 94976 91454 ddevapal2000@yahoo.com

Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge.

Date: 25-03-2023

Kailas Mahipal M

Place: Thrissur

