
BIOGRAPHICAL SKETCH

<p>NAME Gargi Satishraj Jagdale</p> <hr/> <p>POSITION TITLE Graduate student (2015 – present) Analytical Majors Department of Chemistry Indiana University, Bloomington</p> <p>CONTACT Email : gjagdale@iu.edu</p>	
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
Indian Institute of Science Education and Research (IISER), Mohali, India	BS-MS integrated	May 2015	Majors in Chemistry

A. Personal Statement

Analytical chemistry has always been an exciting and interesting subject to me. It is fascinating how we can develop and set up experiments with various conditions analogous to the case that we want to study and find out or predict results; be it in astrochemical studies, forensic science, atmospheric chemistry or any other field.

During the course of my study at IISER, I used techniques like mass spectrometry, nuclear magnetic resonance, X-Ray diffractometry, fluorescence spectroscopy and atomic absorption spectroscopy. I had an opportunity to work on vacuum UV synchrotron radiation instrument at NSRRC. The experience I gain from the internships and projects have only made my interest in the subject grow stronger.

Presently, I am working on a project in which we would be studying the combination of nanopipettes as electrospray emitters and the FAPA ion source, to introduce ions into the mass spectrum.

B. Projects

2. Study of the combination of nanopipettes as electrospray emitters and the FAPA ion source for introduction of small scale analytes into the mass spectrometer
October 2015 – present, IU Bloomington
1. Matrix Isolation IR studies of propargyl alcohol and methyl amine complexes
July 2014 – May 2015, Master's thesis, IISER Mohali

C. Scholastic achievements

2010 – 2015 Fellow of INSPIRE scholarship by MHRD, India

2009 Secured 99.5 percentile (32/50) in first level of 12th National Science Olympiad with All India Rank 67

Final level rank - 293

2007 Received certificate in Maharashtra level Science Talent Search Exam (MTSE) with district rank 3

D. Internships

5. Vacuum Ultraviolet (VUV) experiments on astrochemically important compounds
December 2014, National Synchrotron Radiation Research Centre (NSRRC), Taiwan
4. Hf-W chronometry to determine age of core formation in planetary bodies
May-July 2014, Physical Research Laboratory (PRL), Ahmedabad
3. Low Temperature IR and low velocity impact experiments
May-July 2013, Indian Institute of Science (IISc), Bangalore
2. Study and simulations of Sterling Engines
May- July 2012, Indian Institute of Science (IISc), Bangalore
1. High Energy Astrophysics
May-July 2011, Indian Institute of Science Education and Research (IISER), Mohali