

# Mohit Agarwal

2<sup>nd</sup> Year, Doctor of Philosophy  
Department of Chemistry and Pharmacy  
Friedrich-Alexander-Universität Erlangen-Nürnberg / Institut  
Max Von Laue- Paul Langevin, Grenoble

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## Address

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## Objective

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An enthusiast chemist always seeking opportunities to gain knowledge and contribute to active research. My current research is acting as a strong foundation for the same. I have shown myself to be self-motivated, committed, and determined in achieving my goals, come what may.

## Research Experience

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### Friedrich-Alexander-Universität Erlangen-Nürnberg / Institut Max Von Laue- Paul Langevin, Grenoble

*Ph.D.*

Sep, 2019- Present

**Supervisor:** Prof. Franziska Gröhn / Prof. Ralf Schweins

**Project Title:** Light-Tunable Structures by Self-Assembly: In-situ SANS under irradiation.

### IIT Roorkee, Uttarakhand

*M.Sc. Thesis project*

Dec, 2018- April, 2019

**Supervisor:** Prof. P. Jeevanandam

**Project Title:** Synthesis of TiO<sub>2</sub>/SnO<sub>2</sub> mixed oxide nanoparticles and their application.

### SINP, KOLKATA

*Summer Project*

May, 2018- Jul, 2018

**Supervisor:** Prof. Samira Basu

**Project Title:** Photophysics of oxidized TREN- A pH-dependent interaction with neurotransmitters.

### IIT Roorkee, Uttarakhand

*Winter Internship*

Dec, 2017

**Supervisor:** Dr. Kalyan Sadhu

**Project Title:** Effect on fluorescence intensity and absorbance by the addition of various metal ion solutions and small molecules (organic compounds) to the gold nanoparticles.

### Hindu College, University of Delhi

*Semester Project*

Jul 2016- Mar 2017

**Supervisor:** Dr. Neha Kapoor

**Project Title:** Development of theranostics based product with curcumin oligonucleotide rare earth metal-based nanoparticles proves as an MRI contrast agent.

### Nanotechnology Department, Allahabad University, Allahabad (Uttar Pradesh)

*Research Intern*

June 2015

**Supervisor:** Dr. Ranu K. Dutta

**Project Title:** Synthesis of metal nanoparticles (e.g. gold, silver, and zinc) through reducing method and their studies on toxic effects of cancer (cervical cell lines).

### Hindu College, University of Delhi

*Semester Project*

Dec 2014-Dec, 2015

**Supervisor:** Dr. Neha Kapoor

**Project Title:** Pharmacognostic studies on Selaginella species and evaluation of its antimicrobial activities.

## Workshops/Conferences/Meets

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- ✓ Presented poster in **National seminar**, on 'Relevance of medicinal plants in the 21<sup>st</sup> century 'in Ramjas College, **University of Delhi** (Feb 10-11, 2015).
- ✓ Presented poster '**Pharmacognostic studies on Selaginella species and evaluation of its antimicrobial activities**' in the annual chemical fest '**ANTARDHWANI-2015**' of the University of Delhi. (Feb 2015).
- ✓ Participated in a workshop on '**DNA FINGERPRINTING**' held on 22<sup>nd</sup> Jan, 2016 at Hindu College, University of Delhi.
- ✓ Participated in a workshop '**ACS on Campus**' held on 7<sup>th</sup> Feb 2018 at IIT Roorkee, Uttarakhand, India.
- ✓ Participated in **Bayreuth Polymer Symposium 2019** at the University of Bayreuth (Sep 22-24, 2019).
- ✓ Participated in the **Graduate School of Molecular Science 2020** program and presented an introduction talk on small-angle neutron scattering and a project on Removal of the metal catalyst in **Kirchberg in Triol** (Feb 9-14, 2020).

## Education

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Course	Institute	Board	Year	CGPA/Percentage
Ph.D.	FAU, Erlangen-Nürnberg/ ILL, Grenoble	NA	2019-Present	--
MSc Chemistry	Indian Institute of Technology, Roorkee	NA	2017-2019	8.05
BSc (Hons.) Chemistry	Hindu College, University of Delhi	NA	2014-2017	83.00%
Class 12	Dr.D.P.S.V.M Inter college, Bilari, Moradabad	UP BOARD	2014	91.60%
Class 10	Dr.D.P.S.V.M. Inter college, Bilari, Moradabad	UP BOARD	2012	86.83%

## Instrument used

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Gas chromatography, UV-Vis spectrophotometer, fluorimeter, FTIR, diffuse reflectance spectroscopy (DRS), Malvern zetasizer light scattering (DLS-SLS), and small-angle neutron scattering (SANS)

## Technical Skills

Origin, MS office, chemsketch, ChemDraw, Qbasic, and adobe illustrator

## Extra-Curricular Achievements

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- ✓ Involved in organizing events in **CATALYSIS-2015** held on March 30-31<sup>st</sup> at Hindu College, University of Delhi.
- ✓ One of the event organizers in the annual fest of **ANKUR SOCIETY** of the differently-abled student of Hindu College, University of Delhi (Apr 2015).
- ✓ Participated in **NCC PARADE** and **SEEMAFOR** in **ANTARDHWANI 2015**, University of Delhi (Feb 2015).
- ✓ Attended **combined annual training camp** held at **BAKKAR GARH** from 25 Dec 2014 to 3 Jan 2015, NCC, University of Delhi.
- ✓ Participated and won the **1<sup>st</sup> prize in photography** on **Ganga Bhawan Day** (Mar 2019).

## Position of Responsibility

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- ✓ Participated in **DUTHON** held on 27<sup>th</sup> Feb 2015 (half marathon), University of Delhi.
- ✓ Member of **NATIONAL CADET CORPS (NCC)**, Hindu College, University of Delhi.
- ✓ Secretary in chemistry departmental events in **cognizance** (Mar 23-25, 2018), annual tech fest, IIT ROORKEE.