



Ankita Meena

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Address: Village Padana, 322034 Sawai Madhopur, India

EDUCATION AND TRAINING

Bachelor of Science and Master of Science (BS-MS) Dual Degree

Indian Institute of Science Education and Research Mohali (IISER Mohali) [29/07/2017 - 26/05/2022]

Address: Knowledge city, Sector81, 140306 Sahibzada Ajit Singh Nagar (India)

<https://www.iisermohali.ac.in/>

Higher Secondary Education

Narayana Junior College [06/2015 - 04/2017]

Address: Vittalwadi 3-5-597&598, 500029 Hyderabad (India)

High School Education

Arya Bhatta High School [07/2014 - 04/2015]

Address: Nallakunta, 500044 Hyderabad (India)

WORK EXPERIENCE

Master Thesis Student

Indian Institute of Science Education and Research Mohali (IISER Mohali) [08/2021 - 05/2022]

City: Sahibzada Ajit Singh Nagar

Country: India

Project title: Synthesis and characterization of stimuli(multi)-responsive block copolymer

- Synthesized thermoresponsive poly (N-isopropyl acrylamide) PNIPAM homopolymer using atom transfer radical polymerization (ATRP) method one of the controlled/living radical polymerization techniques.
- Characterized the synthetic compounds using size exclusion chromatography, proton nuclear magnetic resonance spectroscopy, temperature-dependent UV-visible spectroscopy, Fourier-transform infrared and mass spectroscopy.

Summer Intern

Indian Institute of Science Education and Research Mohali (IISER Mohali) [05/2021 - 07/2021]

City: Sahibzada Ajit Singh Nagar

Country: India

- Worked on designing a new functional polymer with targeted applications.
- Among various controlled radial polymerization techniques, I learned the ATRP method and prepared polystyrene homopolymer with a narrow polydispersity (PDI less than 1.1).
- Independently performed the air-sensitive ATRP polymerization reaction several times.

Summer Intern

Indian Institute of Science Education and Research Mohali (IISER Mohali) [05/2019 - 07/2019]

City: Sahibzada Ajit Singh Nagar

Country: India

- Synthesized photo-switchable(functional) compounds using azo coupling and mills reaction.
- Well-developed synthetic laboratory skills include column chromatography, thin layer chromatography, and rotatory evaporation techniques.
- Learned how to deal with basic hands-on experiments during an organic reaction.

COMMUNICATION AND INTERPERSONAL SKILLS

Master Thesis Seminar and Poster Presentation

- On April 9, 2022, I presented a poster at IISER Mohali on my thesis report, "Synthesis and characterization of stimuli(multi)-responsive block copolymer," and on April 18, 2022, I delivered a seminar in front of the committee members.

HONOURS AND ACHIEVEMENTS

CSIR-NET Qualified

- Qualified CSIR-NET with AIR 109 in June 2022 conducted by the National Test Agency(NTA).

Specialization in Organic Chemistry

Indian Institute of Science Education and Research Mohali [26/05/2022]

Along with my Master's in chemistry, I was honored with a specialization in organic chemistry in recognition of completing the following elective courses

- Photochemistry - Concepts, Techniques, and Applications
- Soft Matter, Colloids, and Interfacial Phenomena
- Chemical Crystallography
- Chemistry of Natural Products

Merit-Cum Means Fellowship

Indian Institute of Science Education and Research Mohali

- The fellowship was offered by the government of India for the last three semesters i.e. 8th, 9th, and 10th semesters. It was awarded because of my excellent cumulative Performance index(CPI).

Nanotechnology and Nanoscience, Part1 (Coursera Course)

Technion - Israel Institute of Technology [22/08/2022]

I am interested in understanding the fundamentals of the nanoscience field and hope to use this knowledge in the future while working in the area of polymer chemistry.

<https://coursera.org/share/75c6259591e3c91f8cfc982e32c9e5a>

DIGITAL SKILLS

My Digital Skills

Spectroscopy: MestreNova / Data analysis and graphing software (OriginPro) / ChemDraw Professional 16.0 / SciFinder - CAS / Dropbox / Microsoft Office (PowerPoint, Word, excel, Teams) / Google (Drive, sheets, Docs) / Gmail / LinkedIn / Twitter / Adobe Scan / Skype / Zoom / Telegram / Facebook, Whatsapp, Instagram

LANGUAGE SKILLS

Mother tongue(s): **Hindi**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

Telugu

LISTENING C1 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

HOBBIES AND INTERESTS

Dance, Yoga and Photography

RECOMMENDATIONS

MS thesis supervisor

Dr. Raj Kumar Roy

Assistant Professor, PhD

Department of Chemical Sciences

Indian Institute of Science Education and Research Mohali (IISER Mohali)

Sector 81, SAS Nagar, Manauli (PO) 140306, Punjab India

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Summer Project Supervisor

Dr. Sugumar Venkataramani

Associate Professor, PhD

Department of Chemical Sciences

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