

Swarna Naidu

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Date of Birth: 11th November 1998

Nationality: India



Education

Master of Science

August 2019-Present

Institute: Indian Institute of Science Education and Research Bhopal

Department of Chemistry

CPI: 8.3/10 (4th semester)

Bachelor of Science

2016-2019

Institute: RTM Nagpur University, Nagpur

Subjects: Physics, Chemistry, Mathematics

CPI: 7.6/10

Higher Secondary Education

2014-2016

Board: Maharashtra State Board of Secondary & Higher Secondary Education

Institute: D B Science College, Gondia

Percentage: 90.3%

Secondary Education

2014

Board: Central Board of Secondary Education

Institute: St. Xavier's High School, Gondia

CPI: 10/10

Experience

Master's Thesis

January 2021– Present

Topic: *Porous Organic Polymers: Viable Approaches Toward Efficient Micropollutant Separation from Water*

Supervisor: Dr. Abhijit Patra

Functional Materials Laboratory (IISER Bhopal)

Lab Rotation

December 2019

Organic and Bioconjugate Chemistry Laboratory (IISER Bhopal)

Supervisor: Dr. Vishal Rai

Lab Rotation

January 2021

Computational and Experimental Biophysics (IISER Bhopal)

Supervisor: Dr. Rati Sharma

Skills

Organic Chemistry Skill

Setting up inert atmosphere reactions, photochemical reactions, handling transition metal catalysts, crystallization. Basic lab skills, e.g., thin layer chromatography, column chromatography, solvent drying, Soxhlet extraction

Instruments Handling

FT-IR (solid and liquid state), UV-Visible absorption spectroscopy, fluorescence emission spectroscopy, solution-state NMR (^1H and ^{13}C), Mass spectrometry (HRMS), BET surface area analysis (N_2 adsorption-desorption studies), FESEM and HRTEM analysis

Polymer Synthesis and Study

Moisture sensitive hypercrosslinked polymer (HCP) synthesis employing cheap precursors, soluble-HCP synthesis, and thin-film fabrication for micropollutants removal, oil-water separation

Programing and Software

Microsoft Office (Word, PowerPoint, Excel), Origin Pro 2018, MestreNova, ChemDraw, Adobe Photoshop, Adobe Illustrator, Quantachrome ASiQwin

Soft Skills

Able to curate and interpret data efficiently, hold written as well as verbal communications, proficient in scientific writing and presentation.

Achievements and examinations qualified

INSPIRE Fellowship

Conducting Agency: Department of Science and Technology (DST), Government of India
Duration: 2016-2019

IIT-JAM 2019

Conducting Agency: Indian Institute of Technology Kharagpur (IIT Kgp)
Year of qualification: 2019
Rank: AIR - 318

IISER I-PhD Interview

Conducting Agency: IISER Bhopal
Year of qualification: 2019

TOEFL

Conducting Agency: Educational Testing Service (ETS)
Year of appearing: 2021
Score: Reading 29/30, Listening 30/30 (writing and speaking results awaited)

Extracurriculars

- Founder member of UDAAN book and Literary Club in D B Science College (RTM Nagpur University); contributor for content and design in Udaan Yearly College Magazine

- ▶ Member of Fine Arts and Literary Council (FALC) at IISER Bhopal
- ▶ Part of Alumni Talks for D B Science College, Gondia, Maharashtra, India
- ▶ Attended workshop organized by the Dean, Alumni and International Relations on Placement & Soft Skills Development Workshop (15th -19th February 2021), IISER Bhopal

Publications and Experience

- ▶ Paper titled “Disposal of Absorbent Hygiene Products: Are We Doing Enough?” accepted in First International Conference on Sustainability in Built Environment (SIEB-2020) organized by Aurora Group of Architecture Colleges Hyderabad Telangana, India held on 3rd- 4th January 2020 at Hotel Taj Deccan Hyderabad (Second author)
- ▶ Paper titled “Sanitary Waste Management” submitted and accepted for International Conference on Revisiting Sir Patrick Geddes (RSPG-2019) organized by Vigyan Bharti School of Architecture IPS Academy Indore and Nagar Nigam Indore, India on 26th- 28th September 2019 (Second author)
- ▶ Field experience: Training from 2016-2019 on affordable water purification technology for rural Maharashtra with exposure to various ground level hurdles and practical solutions to these issues
- ▶ Study of Parboiling Rice Mill effluent water for characterization of its pollutant and devising strategies for treatment of biohazardous rice mill effluent water to get clean water
- ▶ Teaching experience for 11th -12th Chemistry for underprivileged girl students

Languages known

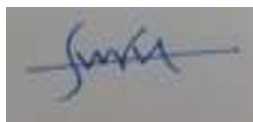
- ▶ English, Hindi, Telugu

Hobbies

- ▶ Reading, Writing, Amateur photography, Bird Watching, Drawing

I hereby declare that all statements made here in above are true, complete and correct and are not false or misleading.

Signature:



Place: Bhopal, Madhya Pradesh, India

Date: 27.10.2021

Academic References

Dr. Abhijit Patra

Associate Professor, Department of Chemistry

Indian Institute of Science Education and Research Bhopal

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Dr. Apurba Lal Koner

Associate Professor, Department of Chemistry

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