

NIKITA SINGH

 | <https://www.linkedin.com/in/nikita-singh-3b6a76210>
 +91-8563978252 |  nikitasingh4615@gmail.com

EDUCATION

Master in Science (Physics)

Pandit Nagina Smarak Mahavidyalaya

Department **Rank: 1**

CGPA: 7.96 /10

Bachelor in Science

J.B.M. Degree College 52%

Azamgarh - UP, India

July 2022- July 2024

Chaurichaura - UP, India

July 2014- June 2018

RESEARCH EXPERIENCE

- **Research Internship:** Dye Sensitized Solar Cell, working on counter electrode part.
Supervisor: Prof. Bhaskar Bhattacharya
- **Master's Thesis:** "Synthesis of Graphene using the electrochemical method".
Supervisor: Prof. Bhaskar Bhattacharya
I focused on synthesizing graphene using electrochemical methods and characterizing its structural properties through Raman spectroscopy and X-ray diffraction (XRD).

PROJECT EXPERIENCE

- **Project Climate Cues**
Co-developed the 'Climate Cues' web app, a project aimed at raising awareness about climate change and carbon footprints. <https://mycoolglobe.onrender.com/>
Mentor: Mrs. Sapna Jhawer , *Vigyanshaala International accelerator programme*
- **Earthen Stove Development**
Led a team to develop an earthen stove to reduce indoor pollution and air pollution and alleviate health impacts on women in villages.
Mentor: Mr. Anil Kumar Tripathi (Science Communicator); *National Children Science Congress (NCSC)*

PUBLICATION

In preparation: "Synthesis Of Graphene As A Counter Electrode For Better Efficiency Of Dye Sensitized Solar Cell (DSSC)"

CONFERENCES

- **2nd International Conference on Energy Materials and Devices** , MMV, BHU, Varanasi, India [March 2024]
- **Oral Presentation** in **International Conference on Climate Change, Disaster Management and Environmental Sustainability**, Jamia Millia Islamia, New Delhi, INDIA. [21-22 February]
Presented paper entitled "Impact of Climate Change on Agriculture"
- **Poster Presentation** in **International Conference on Advancement in Functional Materials (ICAFM-2024)**, VBS Paranuchal University, Jaunpur, UP, India. [8-10 February]
Presented my poster entitled "Impact of Climate Change on Agriculture",
- **National Symposium On Advancements In Various Fields Of Physics**

Attended this National Symposium organized by the *Association Of Indian Physicists (AIP)* [3rd September 2023]

- Webinar on “**Graphene Oxide – Prospects and Challenges**”, Department of Physics, St, John’s College, Agra. [11 May 2020], webinar delivered by Dr. Ajay Thakur, IIT, Patna.

SKILLS

- **Instrumental:** Electrochemical workstation, UV chamber, Centrifuge, Ultrasonic Heater, Magnetic stirrer, Spin coater, Desiccator, Chronopotentiometry, Raman, XRD
- **Digital:** Matlab, Microsoft Word, Powerpoint and Excel, Latex
- **Soft:** Science Communication, Documenting scientists’ stories, Leadership Skills, Teamwork.

TRAINING

Internship in “**Research Training**”, MSME –Technology Development Center (PPDC), Online
I learned basics about paper writing through this internship on 16 January -16 February 2024

- SHE FOR STEM KALPANA *Incubator fellow*, Vigyanshaala International, [July-Oct. 2022]
I got opportunity to develop the soft skills like communication skills ,growth mindset, critical thinking, scientific temperament, problem solving skill.

PUBLIC ENGAGEMENTS EVENTS

- Delivered a talk on **Communicating with children and youth: What and How? Our Experience and suggestion** on 19 May 2024 for Science for society, Jharkhand
- Delivered a talk on the **Challenges and possibilities of students and youth in the present time** on 16 June 2024. for science for society, Jharkhand.

TEACHING EXPERIENCE

Taught science, mathematics to High School Students for board exam preparation.
I taught the basic concept of electricity, and magnetism to my students.

EXTRA-CURRICULAR ACTIVITIES

- Company- ScienceOverse worked as a Coordinator of the media and communication department: Organized masterclasses and invited guest speakers. Managed social media content.
 - *Documenting scientists’ stories*: Published in AIP bulletin.
 - *Narrating scientific facts*: - Published in Hindi article in the book “Kan Kan Me Vigyan”.

VOLUNTARY EXPERIENCE

Taught unprivileged children who could not afford to enroll in good quality schools at the NGO named “**Light De Literacy**”.

REFERENCES

- Dr. Chandra Kumar, Assistant Professor at Universidad of Mayor, Santiago, CHILE, Email: chandra@alumnos.ucn.cl; Phone no. (+56)- 928728904
- Dr. Pukhrambam Dipak, Assistant Professor at Chandigarh University, Punjab, INDIA Email: pukchaokhuman@gmail.com; Phone no. (+91)- 8839192644