

Pramod Subedi

subedipramod48@gmail.com

pramod.subedi@nast.org.np

Kushma-12, Thulipokhari, Parbat

+9779849279035



Summary

I am a Physics graduate with a keen interest in atmospheric physics, air pollution, and material science. I am dedicated to applying scientific knowledge primarily through research activities. My practical skills include XRD analysis, UV-Visible spectroscopy, and SODAR-RASS operation, enabling me to conduct detailed material characterization and atmospheric measurements. I am committed to advancing scientific understanding by engaging in collaborative projects and rigorous laboratory work. Additionally, I possess strong communication and organizational skills that support effective teamwork and research coordination.

Education

Valmiki Vidyapeeth, Exhibition Road, Kathmandu, Nepal (Nepal Sanskrit University) (One year B.Ed. in Mathematics)	2023
Central Department of Physics, Kirtipur, Kathmandu, Nepal (T.U.) (<i>M.Sc. Physics</i>) CGPA: 3.90	2017-2021
Tri-Chandra Multiple College, Kathmandu, Nepal (TU) (<i>B.Sc.</i>) Physics, Statistics, and Mathematics combination First Division (71.15 %)	2012-2016
Goldengate Int'l College, Battisputali, Kathmandu, Nepal (HSEB) (+2 <i>Science</i>) First Division (69.1 %)	2010-2012
Janata Sudarshan H.S.S, Thulipokhari, Parbat, Nepal (GoN) (<i>S.L.C.</i>) First Division (79.38 %)	2010

Technical Skills

MS-Word | MS-Excel | PowerPoint | Latex | GIS | Origin

- WRF and CTM modeling.
- SODAR-RASS system operation and data analysis, aerosol sampling.
- Gridded air pollution emission inventory.
- X-ray Diffraction, XRD Analysis
- UV-Visible Spectroscopy

Work Experience

- Chief Laboratory Assistant of Physics at Nepal Academy of Science and Technology (NAST), Khumaltar, Lalitpur, Nepal.
- 2022-2024 -Physics Lecturer at Hrit Academy, Basundhara, Kathmandu.
- 2022-2023 -Physics Lecturer at School of Engineering (CTEVT), Phutung Secondary School, Kathmandu.
- 2022- Physics tutor at Nami College, Jorpati, Kathmandu.
- 2021-2022 - Physics Lecturer at Balaju School of Engineering and Technology, Balaju, Kathmandu.
- 2020-2021 - Physics Lecturer at Gyankunj College, Ravibhawan, Kathmandu.
- 2019 -2020 - B.Sc. Physics Teacher at KIC Academy Bagbazar, Kathmandu.
- 2018-2019 - +2 Physics Teacher at Newlight Institute, Godawari, Lalitpur.
- 2016-2017 - Secondary Level Science/Maths Teacher at Phalewas Model English Boarding School, Phalewas, Parbat.

Awards

3rd Geo-Science Exhibition-2075 ▪ Nepal Geological Students Society (NGSS) 02/2019
Best Exhibitor (CDP, T.U.)

Membership

Life Member of Nepal Physical Society (NPS)

Research Projects

- Study on the Vertical Temperature Profile and Atmospheric Stability over Kirtipur Area. (M.Sc. Term Paper)
- Industrial Contribution for the Degradation of Air Quality over the Kathmandu valley, Nepal: Gridded Emission Estimation and Dispersion Modelling. (M.Sc. Thesis)

Research Experience/Publications

- **“Biratnagar-Dharan Regional Air Pollution Dispersion Modeling and Control System Development”**, A research project report submitted by National Atmospheric Resource and Environmental Research Laboratory (NARERL) of Central Department of Physics, T.U. Kirtipur to **Ministry of Forest and Environment, Department of Environment, Babarmahal, Kathmandu** as a research project of Department of Environment. (July 2021).

Research Assistant (NARERL, CDP, T.U.)

- **General Wind System and Flows over the Mountaneous Regions: A Brief Discussion**, review article, Symmetry Volume XIV (2021), Central Department of Physics, T.U.
- **Role of Geographical Setting and Meteorology in Air Pollution of the Kathmandu Valley, Nepal**, book chapter, CSAN annual publication-2079/80, Volume III, ISBN No.: 9789937140379
- **Optical and green catalytic properties of fenugreek water for diabetes and skincare treatments**, research article, Scientific Reports 15(1), (2025) DOI: 10.1038/s41598-025-92953-2
- **Effect of Aluminum Doping on the Optical, Electrical, and Gas Sensing Properties of ZnO Thin Films**, research article, Progress in Physics of Applied Materials, 5(1), 1-9 (2024). DOI: 10.22075/ppam.2024.35384.1118
- **Study and comparison of air pollution in three stations of Pokhara valley**, research article, Himalayan Physics, 11,78-91, (2024) <https://doi.org/10.3126/hp.v11i1.69937>

Referees

Prof. Dr. Binil Aryal, Central Department of Physics, T.U., Kirtipur.

Prof. Dr. Ram Prasad Regmi, Central Department of Physics, T.U., Kirtipur.

Prof. Dr. Narayan Prasad Adhikari, Central Department of Physics, T.U., Kirtipur.

Assoc. Prof. Dr. Gopi Chandra Kaphle, Central Department of Physics, T.U., Kirtipur

