

SAGAR RAWAL

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DOB: Oct 20 1994

EDUCATION

University of Houston, Houston, TX

PhD in GeoPhysics

Expected May 2028

Central Department of Physics, Tribhuvan University, Kathmandu, Nepal

Master in Physics, **3.73/4 GPS**

2018

College of Technology, University of Houston, Houston, TX

Research Assistant, Research for Teachers RET 2023 program

June 14 – July 21 2023

EXPERIENCE

Karnali Technical School, Nepal

Program Coordinator and Physics Instructor

2021 – 2023

- First Year Coordinator and Physics Instructor for Diploma in Civil, Pharmacy, Forestry and Animal Science
- Teach Physics, Computer and Math to students on Smart-Board and Augmented Reality.
- Conduct Basic Coding Class as per extra-curricular activities for students.
- Digital Marketing using Photoshop/After-Effects and Illustrator to promote school activities for public
- Handling administrative works of publishing notice and work also as information officer.

Jajarkot Polytechnic School, Nepal

Program Coordinator and Physics Instructor

2020 – 2021

- Physics Instructor for Diploma in Civil, Pharmacy, Forestry and Animal Science
- Conduct Lab session and demonstrate the experiments as per syllabus
- Digital Marketing using Photoshop/After-Effects and Illustrator to promote school activities for public

NRS Services, Kathmandu

Human Resources Officer

2020 – 2021

- Manage Staffs and Operate office Operations
- Work actively with Office Staff in group for smooth running of Business
- Planned day-to-day production related activities, production schedules and implemented quality tools and allocating work for achieving of monthly production targets.
- Minimized performance bottlenecks for high productivity with maximization of men, material & machine.
- Coordinated with production and quality control departments to ensure smooth functioning of all production activities.
- Collected and prepared pre-production files, measurement & worksheets.

Condensed Matter and Physics Research Center (CMPRC), Nepal

IT Support Officer

2018 - 2020

- Technical Support to support team for smooth running of servers and websites.
- Maintain CMPRC Websites, Database, Mobile Apps and Server
- Maintenance of CPU, Printers and check installation of various necessary softwares

Rolling Plans Private Limited, Kathmandu

Customer Care Representative

2016 - 2018

- Educating Customer and addressing their Problems with good Care.
- Meet the Difficulties of Customer Queries
- Handling Customer from Enterprise Department in much efficient manner ensuring best customer service.

RELEVANT COURSES

Time Series Analysis, Geographic Information System (GIS), GeoPhysical Programming, Satellite Positioning and Geodesy, Rock Physics, Python Data Analysis

SKILLS

Generic Mapping Tools (GMT) for Contour Maps, Histogram, 3D Plots, vector field, Times series, GIS, GNSS survey using OPUS and PPP tool etc. Sketchup, Microsoft Office, Basics in SolidWorks, Python, C++ programming, ARC GIS

Language Skills: Fluent in English, Nepali, Hindi, and some basic Spanish & Japanese.

HONORS AND AWARDS

- Best Essay Competition winner organized by **Pakistan Embassy**, Nepal
- Geo-Exhibition winner organized by Central Department of Geology Kirtipur TU, Nepal

ACTIVITIES AND CERTIFICATIONS

- Webinar on Solar Coronal Hole and their role in Space Weather, **Dr. Michael S.F Kirk**, NASA Goddard Space Flight Center ASTRA, LLC
- International E-Workshop Conference on **Computational Condensed Matter Physics** and Material Science (IWCCMP-2011), Butwal Nepal
- Seminar on **Material Science & Engineering** (SMSE-2014), New Horizon Institute Kalikanagar Butwal
- Workshop on **Data analysis:** Python and Origin, ST. Xavier's College Maitighar Kathmandu
- Scientific Data Analysis Workshop I, **Astrophysical Research Group** Nepal

Refresher and Published Papers

Title Entrance Book of MS Physics

Description The book is for students willing to get high rank in Entrance held by Central Department of Physics for Master program. It was received positive reviews from Professor and students as well.

Similarly other **Book Refresher** I have published are

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|--------------------------|----------------------------------|-----------------------------------|
| ➤ Mathematical Physics I | ➤ Computational Physics | ➤ Particle Physics |
| ➤ Electronics | ➤ Astrophysics I | ➤ Astrophysics II |
| ➤ Solid State Physics | ➤ Mathematical Physics II | ➤ Advanced Solid State Physics II |
| ➤ Statistical Mechanics | ➤ Advanced Solid State Physics I | ➤ Electrodynamics II |
| ➤ Quantum Mechanics II | ➤ Quantum Field Theory | ➤ Engineering Mathematics III |
| | | ➤ Physics for Diploma Level |

EXTRACURRICULAR ACTIVITIES

- Participated in **Geo-Exhibition Competition** and become first held in 2018
- Participated in various **Events** such via College or via NGO's and INGO's
- Volunteered for
 - **Earthquake relief** group in providing various food and clothes in various districts
 - Organizing Seminars dedicating Lecture series on various **Noble Laurates** in Physics
 - Plantation program inside college premises celebrating **Prof. Stephen Hawking** Birthday anniversary
 - **AI Robot competition** held by Pulchowk Campus
 - Provided **Wheel Chairs** and Home Appliances to the needy.
 - Offered voluntary services during **natural calamities** like Earth Quakes, Floods, etc.