UKESH **KARKI**

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I graduated from the Tri-Chandra Multiple Campus. I have done B.Sc. with a major in physics. During my period on the campus, I excelled in all aspects of academics with a sound background in research.

EDUCATION

High School | St. Lawrence College
2014 – 2016
Bachelor | Tri-Chandra Multiple Campus
2016 – 2020

EXPERIENCE

Teacher | Mount Summit school
2016– 2017
I was a science and math teacher for a secondary level. During that period, I increased the involvement of students in science projects and experiments. I also taught students the real-life application of mathematics in daily life.

SKILLS

- Tutoring
- Python Programming
- Markov Chain Monte Carlo
- Data visualization
- Statistical Analysis
- Machine Learning

ACHIEVEMENTS

- **Topper of Tri-Chandra Multiple Campus**
- **Winner of the scientific session of the 37th annual convention of Nepal Physical Society**

SCHOOLS, WORKSHOPS AND CONFERENCES

- Kathmandu Astrophysics School 2020, where experts taught advance visualization and analysis tools to aspiring young astrophysicists.
- Scientific Data Analysis with Python Workshop, organized by Datanox

- Introduction to astronomy 2021, online school for the aspiring astrophysics
- Gaia EDR3 Early Science and Best Practices Online Workshop
- Winter-Spring School 2021 on scientific computing, organized by School of Scientific Computing
- 2021 Dunlap Institute Virtual Summer School, University of Toronto
- IAU Symposium 366 on The Origin of Outflows in Evolution Stars

ONLINE COURSES

- I have taken the Harvardx course for 'Using Python in Research' where I learned the advanced skill for data handling, manipulating, analyzing, and visualizing - Edx
- Complete Python Bootcamp from Zero to Hero in Python - Udemy
- Data-driven Astronomy, The University of Sydney - Coursera

RESEARCH INTEREST AND PROJECT WORK

- I have done my B.Sc. project work on the title ***"Rotational Velocity of Metal-Poor K-Giant Stars in the Milky Way"*** using the K-giant stars from GALAH DR3 and Gaia EDR3
- Application of Bayesian method in Physics problem (esp. in astrophysics and LIGO problems)

TALKS AND PRESENTATIONS

- 37th annual convention of Nepal Physical Society on the title ***"Rotational Velocity of Metal-Poor K-giant Stars Stars in the Milky Way"***
- East African Astronomical Society Workshop 2021 on the title ***"Rotational Velocity of Metal-Poor K-giant Stars Stars in the Milky Way"***
- The Association of Nepalese Physicist in America (ANPA) Conference 2021 on the title ***"Rotational Velocity of the Halo and Thick Disk within | Z |<4 kpc Using the K-giant Stars from the Gaia EDR 3 and GALAH DR 3"***

STANDARDIZED TEST

- TOEFL (Test of English as a Foreign Language)

Reading	Listening	Speaking	Writing	Total
28	29	22	23	102

- GRE (Graduate Record Examination)

Verbal Reasoning	Quantitative Reasoning	A.W.A
161	166	3.0