

# Bishnu Kumar Sharma

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## Education

### NATIONAL CENTRAL UNIVERSITY

MS IN ASTRONOMY (RUNNING)

📅 Aug 2023 📍 Zhongli, Taiwan

- Academic excellence award 2022
- Distinction (89.89%)

### TRI-CHANDRA CAMPUS

BS IN PHYSICS

📅 2019 📍 Kathmandu Nepal

58.75%

### MULTIPLE

## Links

in LinkedIn

<https://www.linkedin.com/feed/>

## Coursework

### GRADUATE

Astrophysics of Galaxy

Observational Astronomy

Stellar formation and evolution (I, II)

Cosmology

### UNDERGRADUATE

Physics

Mathematics

Statistics

## Skills

### PROGRAMMING

Python • SciPy • NumPy • Pandas •

Matplotlib • Machine learning • MySQL

### MISCELLANEOUS

•  $\text{\LaTeX}$  • Microsoft Office • Origin •

GNU/Emacs, Sublime text •

Linux/Ubuntu • Binder • TensorFlow,

Keras, Sci-kit learn • HTML/CSS

## Honors

### ACADEMIC EXCELLENCE AWARD, 2022

GRADUATE INSTITUTE OF ASTRONOMY

Awarded to students who have achieved outstanding grades.

## Language

- Nepali (Native)
- Hindi and English (Fluent)
- Chinese (Basic)

## Experience

### TEACHING

MAHENDRA RASTRIYA SECONDARY SCHOOL

📅 April 2017 – March 2020

📍 Kathmandu, Nepal

- Teaching Mathematics and Science to high school students
- Conduction of extra curriculum activities.

### MACHINE LEARNING

NATIONAL CENTRAL UNIVERSITY

📅 Master degree

📍 Taiwan

- Used Unsupervised Machine learning for image classifications.

### DATA ANALYSIS IN PYTHON

NATIONAL CENTRAL UNIVERSITY

📅 Master degree

📍 Taiwan

- Analyzed Gaia telescope data to make the color-magnitude diagram.

## Conferences

- ZTF summer school, 2021, California Institute of Technology, USA
- Star, Planets, and Formosa, 2022 (NCTS, Taipei)

## Poster presentation

— NATIONAL CHUNG CHENG UNIVERSITY

📅 Astronomical Society of Republic of China 📍 Chiayi, 2022

- Study and classify globular clusters based on color-magnitude diagram morphology using Gaia EDR3

NATIONAL CHENG KUNG UNIVERSITY

📅 Taiwan Physical Society

📍 Tainan, 2023

- Classify galactic globular clusters based on a color-magnitude diagram using an unsupervised machine learning

## Online Courses

Audit CS231 from Stanford University on YouTube

Intro to Deep Learning with PyTorch (Udacity)

CS50's Introduction to Programming with Python

## Strength

### TEAM WORK & COMMUNICATION

I used to work as a teacher in Nepal, and I learned strong communication skills. I used to conduct different projects for students and I learned strong teamwork skills. I believe teamwork is very important for the development and growth of any organization.

### THEORETICAL KNOWLEDGE

As a student of Mathematics, Physics, and Astronomy, I develop high theoretical knowledge of natural science and how it works. As the volume of data is increasing in astronomy, we need to perform a lot of data analysis. And of course, the popular language for data analysis for astronomers is Python.

## Reference

Chow-Choong Ngeow (cngeow@astro.ncu.edu.tw)

Advisor