

Prabesh Bista

CONTACT INFORMATION

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EDUCATION

Ph.D. Student 09/2021-current
Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan
Pump probe photoemission spectroscopy to study the electron dynamics in solids.

B.Sc in Physics 09/2015-09/2019
Tribhuvan University, Kathmandu, Nepal
Minor in Mathematics.

EMPLOYMENT

Research Assistant 08/2020-08/2021
Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan

- Construct non-collinear optical parametric amplifier as a light source for photoemission experiment.
- Develop the program for THORLABS PM100D powermeter using LabVIEW.

Internship 03/2020-07/2020
Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan
Ambient photoemission spectroscopy and Kelvin-probe spectroscopy on the band gap and valence band of WS₂.

Physics Lab Assistant (full-time) 05/2016-11/2019
Sagarmatha Engineering College, Lalitpur, Nepal
Assist the undergraduate engineering students during their physics laboratory.

AWARD

Best Admin Staff 11/2018
Sagarmatha Engineering College
By the **Sagarmatha Welfare Council** for outstanding performance.

PUBLICATION

Peer-Reviewed Article

2022

Photoluminescence of Nitrogen-Vacancy Centers by Ultraviolet One-and Two-Photon Excitation of Fluorescent Nanodiamonds

Teng-I Yang, Yu-Wen Huang, **Prabesh Bista**, Chien-Fang Ding, Jeson Chen, Cheng-Tien Chiang, and Huan-Cheng Chang
J. Phys. Chem. Lett. 2022, 13, 48, 11280–11287

PRESENTATION

Oral

11/2021

IAMS Young Fellow Research Presentation

MHz non-collinear optical parametric amplifier as a light source for photoemission

Poster

11/2020

IAMS Young Fellow Research Presentation

Construction of non-collinear optical parametric amplifier for experiments on ultrafast electron dynamics

Poster

01/2023

Annual Meeting of the Physical Society of Taiwan

Development of an Infrared non-collinear optical parametric amplifier at sub-megahertz repetition rates

MENTORSHIP

IAMS-IIP Internship

06-07/2023

Marucheth Thongtheppairoj

Bachelor student at Sirindhorn international institute of Technology (SIIT), Thailand

SKILLS

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|--------------------|---|
| <i>Languages</i> | Nepali (mother tongue), English (fluent) |
| <i>Programming</i> | Python, LabVIEW |
| <i>Software</i> | Microsoft Office, Origin, L ^A T _E X, SOLIDWORKS |
| <i>Optics</i> | beam-width measurement, second & third harmonic generation, white light generation, parametric amplification, parametric down conversion, Pulse compression, autocorrelator |
| <i>Electronics</i> | Oscilloscope, printed circuit board design, soldering |

ACTIVITIES

- Participation in the thematic school HOWDI on 2D Materials in Roscoff, France on Sept. 23-Oct.1, 2023 .

- Participation in online FOCUS PEEM workshop organized by FOCUS GmbH on 16 - 17 June 2021.
- Participation in the workshop on Tracking Detector in High Energy Physics, Islamabad, Pakistan on 15 - 19 October 2018.