

# Prabesh Bista

## CONTACT INFORMATION

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## EDUCATION

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**Ph.D. Student** 09/2021-current  
*Academia Sinica and National Central University, 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

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**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 WS<sub>2</sub>.

## AWARD

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**Scholarship** 09/2021  
*Taiwan International Graduate Program (TIGP)*  
Academia Sinica, Taiwan

## PUBLICATION

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**J. Phys. Chem. Lett. 2022, 13, 48, 11280–11287** 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

## PRESENTATION

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### 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

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### IAMS-IIP Internship

06-07/2023

*Marucheth Thongtheppairoj*

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

## SKILLS

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*Languages* Nepali (mother tongue), English (fluent)

*Programming* Python, LabVIEW

*Software* Microsoft Office, Origin, L<sup>A</sup>T<sub>E</sub>X, SOLIDWORKS, ImageJ

*Optics* Beam-width measurement, second & third harmonic generation, white light generation, parametric amplification, parametric down conversion, pulse compression, autocorrelator

*Characterization* Angle-resolved photoemission spectroscopy (ARPES)

## ACTIVITIES

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- 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.