

Prabesh Bista

CONTACT INFORMATION

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EDUCATION

M.Sc in Physics 09/2021-09/2024
National Central University, Zhongli, Taiwan
Thesis: non-collinear optical parametric amplification as a light source for photoemission spectroscopy
Advisor: [Dr. Cheng-Tien Chiang](#)

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

- Generated second and third harmonic signals in nonlinear optical experiments.
- Developed LabVIEW program for THORLABS PM100D powermeter.
- Procured laboratory components and assisted in lab setup.

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_2 .

Physics Lab Assistant (full-time) 05/2016-11/2019
Sagarmatha Engineering College, Lalitpur, Nepal

- Trained and guided students in performing laboratory experiments.
- Troubleshoot and maintained laboratory equipment to ensure optimal functionality.

HONORS & AWARDS

Scholarship

09/2021-08/2024

Taiwan International Graduate Program

Academia Sinica, Taiwan

Best Admin Staff

11/2018

Sagarmatha Engineering College

Sagarmatha Welfare Council for outstanding performance.

Travel Grant

09/2018

Workshop on Tracking Detector in High Energy Physics

National Center for Physics, Pakistan

PUBLICATION

Peer-Reviewed Article

11/2022

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

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

Teng-I Yang, Yu-Wen Huang, **Prabesh Bista**, Chien-Fang Ding, Jeson Chen, Cheng-Tien Chiang, and Huan-Cheng Chang

Conference Proceedings

06-08/11/2024

Angle-resolved photoemission spectroscopy and microscopy on bulk NiTe_2 using ultrafast tunable laser

Ultrafast Science and Technology Spain (USTS 2024)

Mukesh Singh, **Prabesh Bista**, Yu-chan Lin, Chia-Nung Kuo, Chin Shan Lue, Cheng-Tien Chiang

PRESENTATION

Poster

09/2023

Thematic summer school on 2D Materials in Roscoff, France

Non-collinear optical parametric amplifier for photoemission spectroscopy

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

Poster

11/2022

IAMS Young Fellow Research Presentation

Construction of an infrared by non-collinear optical parametric amplifier

MENTORSHIP

IAMS-IIP Internship

06-07/2023

Marucheth Thongtheppairoj

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

SKILLS

<i>Languages</i>	Nepali (mother tongue), English (fluent), Chinese (Basic)
<i>Programming</i>	Python, LabVIEW
<i>Software</i>	Microsoft Office, Origin, L ^A T _E X, SOLIDWORKS, ImageJ
<i>Optics</i>	Beam-width measurement, second & third harmonic generation, white light generation, parametric amplification, parametric down conversion, pulse compression, autocorrelator
<i>Others</i>	Basic handling in angle-resolved photoemission spectroscopy (ARPES)

ACTIVITIES & OUTREACH

- Participated in the thematic school [Advanced Physics of van der Waals Hetero-Structures](#) in Roscoff, France, from September 23 to October 1, 2023.
- Volunteered for [intercultural service](#) with a school in Taiwan through online engagement from September 5 to December 1, 2022.
- Participated in the online [FOCUS PEEM](#) workshop organized by FOCUS GmbH on June 16-17, 2021.
- Attended the Workshop on Space Weather and Upper Atmospheric Physics in Kathmandu, Nepal, from September 23 to 27, 2019.
- Participated in the workshop on [Tracking Detector in High Energy Physics](#) in Islamabad, Pakistan, from October 15 to 19, 2018.
- Organized the National Science Exhibition at Patan Multiple Campus, Lalitpur, Nepal, on February 18-19, 2018.

REFERENCES

Dr. Cheng-Tien Chiang

Assistant Research Fellow

Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan

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Dr. Wibke Bronsch

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T-ReX Laboratory, Elettra Sincrotrone, Trieste, Italy

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Dr. Raman Sankar

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