

PUSPA RAJ ADHIKARI

South Korea

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Carrier Objective:

- Diligent university student dedicated to research in physics aiming to leverage my knowledge and skill to the subject field for the veracious academic career as a physics researcher.
- To be a good team player in the dynamic as well as challenging and innovative environment with adaptability and a strong conscientious to learn and apply.

Academic Qualification:

2018- FALL	Present	PhD in Material Science	Sungkyunkwan University, South Korea
		<ul style="list-style-type: none">• Overall GPA 4.15/4.5• Advanced Solid-State Physics, Condensed material Physics• Project on Experimental and Theoretical/Computational simulations(DFT)	
2014-2017		M.Sc. in Physics	Tribhuvan University, Nepal
		<ul style="list-style-type: none">• 4th rank in batch• Quantum mechanics, Nuclear, Electrodynamics• Advanced Solid-State Physics, Spectroscopy• Mathematical Physics, Statistical and digital electronics• Computational Physics• Experimental Projects	
2009-2013		Bachelor's in Science and Technology	Tribhuvan University, Nepal
		<ul style="list-style-type: none">• 9TH rank in college• Physic, Chemistry & Mathematics (PCM)• Quantum mechanics• Solid state, Nuclear and Electrodynamics• Statistic and Probability• Calculus• Experimental Projects	
2007-2009		Proficiency Certificate level (PCL)	Tribhuvan University, Nepal
		<ul style="list-style-type: none">• Physics, Chemistry, Math, Biology	
2007		School Leaving Certificate: Shree Saraswathi Janta Secondary School	

Employment History:

2018 fall	PhD in advanced materials Science	Sungkyunkwan University, South Korea
	Condensed Materials Engineering/	
2017-2018	Research-Intern /Teaching	<i>Hydra research lab, Kathmandu, Nepal</i>
	Electronic, Optical and ferroelectric properties of Quantum structure	
	0D,1D and 2D materials, SrTiO ₃ and BaTiO ₃ Perovskites	
2016-2017	Research-Intern	<i>ABV-IIITM, Advanced material research Centre, India</i>
	DFT study, Theoretical Quantum simulation, Experimental training	

Projects:

- **ABV-IIITM, Advance material research Centre.** **Gwalior, MP- India**
(*CNTL, Nanostructure Project*)
- **Nepal Government, Ministry of Science and Technology** **Kathmandu, Nepal**
(*Emergent Materials in Nepal, energy-Research*)
- **Thesis (Masters): Diameter Dependent Structural, Electronic and Optical Properties of TiC nanotubes: First principal DFT study**

Research Achievements (Publications):

- First Principles Study of Electronic and Optical Properties of Pristine and X (Cu, Ag and Au) Doped BiOBr. *Journal of Institute of Science and Technology* **22** (2), 63-69 (2018)
- Electronic and Structural Study of Hexagonal TiC Nanowires: Ab-Initio Study. *BIBECHANA* **16**, 7-14 (2019)
- Diameter Dependent Electronic and Optical Properties of Zigzag and Armchair Nanotubes: Ab-Initio Study. (*Submitted, 2020*)

Research Interests:

- **Experimenting on Ultracold atoms**
- **Quantum simulation and Machine Learning (ML) approach on Quantum processing.**
- Focused core study of **Optical lattice and Superconducting** phenomena.

Languages:(most 5❀)

- Nepali 
- English 
- Hindi/ Urdu 
- Korean 

Personal Information:

- Date of Birth: 26th July, 1990
- Nationality: Nepalese
- Permanent Address: Beldandi 04 Baibaha, Kanchanpur, Nepal.
- Temporary Address: Seoul, South Korea
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References

1. Dr. Gopi Chandra Kaphle

Associate Professor at Tribhuvan University,
Central Department of Physics, Nepal
Hydra Research Lab (Advanced Quantum Simulations Research center)
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(Previous advisor)

2. Dr. Anurag Srivastava

Professor at **ABV- Indian Institute of Information Technology and Management (ABV-IIITM)**
Principal Investigator, Computational Nano-Technology Lab (CNTL)
Coordinator, Technology Innovation and Incubation Center (TIIC)
Gwalior, M. P., INDIA - 474010.
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3. Dr. Krishna Dhakal

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