

RESUME

Name: Usha Poudel Lamgade
Gender: Female
Marital Status: Single
Country of origin: Nepal
Address: Mahalaxmi-5, Tikathali, Lalitpur, Nepal
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Email: poudelusha7@gmail.com
Programming: Python, BASH, MATLAB
Language: English, Nepali, Hindi

Personal Statement:

I am Usha Poudel Lamgade, who graduated with a Bachelor's degree in Medical Imaging Technology from Chitwan Medical College, Bharatpur, Nepal, in 2022. Since then, I have been dedicated to a career as a medical imaging technologist, specializing in radiography, CT, and MRI scans, and currently serving as an MRI Technologist at a reputable hospital.

In addition to my professional endeavors, I am deeply passionate about research, particularly in the realms of radiography and MRI. Notable highlights of my contributions include presenting a poster titled "Assessment of radiation protection and radiobiology awareness among dental students and interns" at ISRRRT, Bangkok 2022, as well as delivering an online oral PowerPoint presentation on "Tract-Based Spatial Statistics of normal adult and child brain" during the 8th Annual Scientific Meeting of the ISMRM Japanese Chapter in September 2023.

Complementing my clinical and research proficiency, I possess advanced skills in scripting using BASH programming, MATLAB, and Python. Currently, I am collaborating with a colleague on research elucidating microstructural differences between Mt. Everest Sherpa climbers and the normal Nepalese population. This work has been selected for oral presentation at the ISRRRT World Congress 2024, with an additional abstract accepted for oral presentation and seven others for poster presentation at the congress.

Education:

Bachelor of Science in Medical Imaging Technology (B.Sc. MIT) 2017 - 2022

- Chitwan Medical College (affiliated to Tribhuvan University), Bharatpur, Chitwan, Nepal

Main Coursework: X-ray, CT, MRI Physics and imaging protocol

10 +2 / Higher Secondary School (HSEB) 2014- 2016

- Ambition Academy, New Baneshwor, Kathmandu, Nepal

Main Coursework: Science, biology

School Leaving Certificate (SLC) / Secondary School 2014

- Ambition Academy, New Baneshwor, Kathmandu, Nepal

Clinical Experience:

Kist Medical College and Teaching Hospital, Mahalaxmi Municipality, Ward No 1, Lalitpur (29 September 2023- present)

-Position: Radio Technician

Sanjeevani Imaging House Pvt. Ltd, Maharajgunj Rd, Kathmandu (September 2022- present)

-Position: Medical Imaging Technologist

Chitwan Medical College, Bharatpur, Chitwan, Nepal (15 May 2021 to 14th May 2022)

- Position: Internship student

Recent Achievements:

Abstract accepted for Oral presentation at ISRRT World Congress 2024

- **Brain microstructural changes among the conquerors of the Himalayas, the great Sherpas**
- **Estimation of gender from 3D CT of Foramen Magnum using Artificial Neural Network**

Abstract accepted for Poster presentation at ISRRT World Congress 2024

- **Radiation dose of non-contrast Head scan in multi slice Computed Tomography**
- **Common site of Ureteric Calculi among Nepalese Population**
- **Evaluation of Image Quality in 1.5 Tesla MRI Scanner in Nepal**
- **Diagnostic effectiveness of Mammography in evaluation of breast lesions with histopathological correlation**
- **Quantitative anisotropy differences between healthy adult and child brain**
- **Construction of T1 weighted MRI brain template among Nepalese population**
- **Creating a FA template among Nepalese population**

Skills:

- Research Methodologies: Experimental design, data collection, data analysis, statistical methods.
- Technical Proficiency:

Neuroimaging Software- MRtrix, FSL, MRICROGL, ITKSNAP, DIPY, DSI_STUDIO, ImageJ

Statistical Software- SPSS

Programming Languages- Basic Python, BASH (SHELL) scripting, MATLAB

Microsoft Office Suit- Word, PowerPoint, Excel

- Analytical Skills: Ability to interpret complex data, identify trends, and draw meaningful conclusions.
- Communication: Clear oral and written communication of research findings.
- Teamwork: Collaborative and effective in interdisciplinary research environments.

Training and Workshops:

- Two days' workshop on '**Writing for Academic Journals**' by **Dr. Steve Folmar, Dignity Initiative, Kathmandu, 30-31st August 2023.**
- **Professional Python Training, Broadway Infosys Nepal, 17th Apr, 2023 to 17th May, 2023**

Professional Learning Online Courses:

- **Understanding peer review** conducted by Dr Jacob Wickham, Editage webinar, 16th of August 2023
- **Medical Imaging Anatomy Course, Radiopaedia.org, 17 March 2022**
- **MRI Fundamentals, Korea Advanced Institute of Science and Technology (KAIST) through Coursera, September, 2020**
- **Occupational health and safety for health workers in the context of COVID-19, World Health Organization Health Emergencies Program, September, 2020**
- **IAEA Radiation Protection Modules, IAEA online training course-IAEA CLP4NET, August 2020**

Journal articles:

Usha Poudel Lamgade, Sudil Paudyal. "An assessment of knowledge on radiation protection and radiobiology on dental students and interns in a tertiary hospital at Nepal." Journal of Medical Imaging and Radiation Sciences, 2022.

Karuna Raya Chhetri, Sushma Singh, Icchya Tamrakar, Usha Poudel Lamgade, et al. "Knowledge of radiation protection among dental students in a medical college, Nepal." Radiography Open 2023.

Conference Presentations:

- **Kalpana Parajuli, Karuna Raya Chhetri, Usha Poudel Lamgade, et al. "Creating a CT Template-based Attenuation Correction Method for Pelvic PET/MR Imaging".**

Abstract presentation on International Conference on Medical Physics (ICMP), December,2023.

- **Usha Poudel Lamgade**, Karuna Raya Chhetri, Surendra Maharjan et.al. "**Tract-Based Spatial Statistics of normal adult and child brain.**"

Powerpoint presentation at the meeting of 8th Annual Scientific Meeting of the ISMRM Japanese Chapter (ISMRM JPC 2023), September,2023.

- Karuna Raya Chhetri, **Usha Poudel Lamgade**, et.al. "**Generalized Q-space Imaging (GQI), a non-parametric approach for Meningioma.**" Powerpoint presentation at the meeting of 8th Annual Scientific Meeting of the ISMRM Japanese Chapter (ISMRM JPC 2023), September,2023.

- Karuna Raya Chhetri, **Usha Poudel Lamgade**, et.al. "**Knowledge, Attitude and Practice of COVID-19 among radiography professionals in a kingdom of Himalayas, Nepal**". E-poster presentation on National COVID-19 Symposium, Nepal,2022.

- **Usha Poudel Lamgade**, Sudil Paudyal, "**An assessment of knowledge on radiation protection and radiobiology on dental students and interns in a tertiary hospital at Nepal**". E-poster presentation at ISRTT World Congress 2022, December,2022.

Awards and Honors:

MetLife Pathways Scholarship Program,2018

- Awarded for Undergraduate Study

Mahatma Gandhi Scholarship Scheme (MGSS),2015

- Awarded for Higher Secondary Study

Professional Membership:

- **Nepal Health Professional Council (NHPC)**

September,2022

- **European Society of Radiology (ESR)**

2022

- **International Society for Magnetic Resonance in Medicine (ISMRM)**

June,2023

- **International Society for Magnetic Resonance in Medicine Japanese Chapter (ISMRM JPC)**

July,2023

References:

Surendra Maharjan, PhD.

Research Faculty, Indiana University School of Medicine (IUSM), Indianapolis, USA

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Dr. Subash Phuyal, DM, MD

Consultant Radiologist, Sanjeevani Imaging House Pvt. Ltd, Maharajgunj Rd, Kathmandu

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