

USHA POUDEL LAMGADE

Medical Imaging Technologist | Graduate Researcher

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[LinkedIn](#) | [Google Scholar](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Medical Imaging Technologist and a Graduate Researcher with more than three years of experience in MRI, CT, and X-ray. Currently pursuing a Master's in Applied Data Science, with research interests in neuroimaging, diffusion MRI, medical image analysis, and artificial intelligence in healthcare. Proficient in Python, machine learning, data analytics, and advanced neuroimaging software, with experience contributing to publications, research projects, workshops, and international conference presentations.

CORE SKILLS

- Medical imaging: MRI, CT, X-ray, neuroimaging, diffusion MRI, and medical image analysis
- Programming and computing: Python and Bash
- Neuroimaging and image-processing tools: MRtrix, FSL, MRICroGL, ITK-SNAP, DSI Studio, and ImageJ
- Data science: Data analytics, data visualization, data engineering, machine learning, and deep learning, computer vision
- Research and Academic Skills: Teaching and curriculum delivery, scientific writing and presentations, webinar and workshop coordination, academic mentoring

PROFESSIONAL EXPERIENCE

- **Radiography Instructor** | Bagmati Health Institute | Kathmandu, Nepal
November 2025 – Present
 - Teach 'Hospital Practice and Patient Care' to third-year Diploma in Radiography students.
 - Prepare teaching materials and assess student learning.
 - Mentor students during practical and clinical training.
- **Radiology Technician, Department of Radiology** | KIST Medical College and Teaching Hospital | Lalitpur, Nepal
September 2023 - March 2025
 - Performed MRI, CT, and digital X-ray examinations.
 - Assisted radiologists in MRI, CT, and image-guided procedures.
 - Maintained patient safety and radiation protection standards.
 - Ensured quality assurance and imaging protocol compliance.
- **Medical Imaging Technologist** | Sanjeevani Imaging House Pvt. Ltd. | Kathmandu, Nepal
September 2022 - September 2023
 - Performed CT imaging procedures.
 - Maintained imaging quality and patient safety.
- **Radiography Instructor and Program Coordinator** | Hope International College | Mahalaxmistan, Lalitpur, Nepal
June 2022 - September 2022
 - Taught 'Radiographic Techniques' to second-year Diploma students.
 - Coordinated academic schedules and faculty assignments.

- Managed daily operations of the Radiography program.
- Supervised classroom and practical activities.

EDUCATION

- **Master's by Research in Applied Data Science** | Madan Bhandari University of Science and Technology, Chitlang, Nepal
Ongoing
- **Bachelor of Science in Medical Imaging Technology** | Chitwan Medical College and Teaching Hospital, Tribhuvan University, Chitwan, Nepal
2017 - 2022
- **Higher Secondary (10+2), Science - Biology** | Ambition Academy, Kathmandu, Nepal
2014 - 2016

PROFESSIONAL DEVELOPMENT

- Computational Neuroscience 2026 | Neuromatch Academy | July 6 - July 24 2026
- NIDA Clinical Trials Network Certified Good Clinical Practice (GCP) | National Institute on Drug Abuse (NIDA) Clinical Trials Network | June 2026 (Valid through June 2029)
- ISMRM – ISMRT Continuing Education – 8.00 AMA PRA Category 1 Credits™ | International Society for Magnetic Resonance in Medicine | May 2026
- ISMRM – ISMRT Continuing Education – 2.75 CPD/CE Category A Credits | International Society for Magnetic Resonance in Medicine | May 2026
- 14th ExploreDTI Workshop, conducted by Prof. Alexander Leemans | 15-17 April 2026
- RISE - MICCAI Summer School 2025 | 14-18 July 2025
- Trainee Member, SPARK Academy 2025 | 15 February-9 August 2025
- Professional Python Training, Broadway Infosys Nepal, Kathmandu | April-May 2023

PROFESSIONAL MENTORSHIP

- Mentee, Medical Image Computing and Computer Assisted Intervention Society Mentorship Programme 2026
- Mentee, Global Mentorship Initiative Mentorship Programme 2026 □ Mentee | GMI Mentorship Programme 2026

LEADERSHIP AND PROFESSIONAL SERVICE

- Program Coordinator, IMAGINE Summer School 2026 | Team Nepal | June 2026 - Present
- Program Coordinator, SWiM (Scan With Me) Training | Team Asia | August 2026 - Present
- Organizer, Quantitative Liver MRI and Brain MR Spectroscopy Workshop by Dr. Suraj Serai | 8 April 2026
- Member of Webinar Organizing Committee, ISMRT Nepalese National Chapter | November 2025 - Present
- Treasurer, ISMRT Nepalese National Chapter | November 2025 - Present

PROFESSIONAL AFFILIATIONS

- Nepal Health Professional Council (NHPC) | 2022
- European Society of Radiology (ESR) | 2022
- International Society for MR Radiographers & Technologists (ISMRT) | 2023
- Medical Image Computing and Computer Assisted Intervention Society (MICCAI) | 2026

HONORS AND SCHOLARSHIPS

- ISMRT Travel Stipend to attend the ISMRT Annual Meeting 2026 | 2026
- MICCAI Society Membership Grant | 2026
- Scholarship for Master's Study, Madan Bhandari University of Science and Technology | 2025
- MetLife Pathways Scholarship Program for Undergraduate Study | 2018
- Mahatma Gandhi Scholarship Scheme for Higher Secondary Study | 2015

SELECTED PUBLICATIONS AND CONFERENCE PAPER

- Chhetri, K. R., Singh, S., Tamrakar, I., **Lamgade, U. P.**, et al. "Knowledge of Radiation Protection among Dental Students in a Medical College, Nepal." Radiography Open, 2023.
- Bohara, P., Shrestha, P. K., Rai, A., **Lamgade, U. P.**, et al. "Topology-Driven Fusion of nnU-Net and MedNeXt for Accurate Brain Tumor Segmentation on Sub-Saharan Africa Dataset." International Conference on Medical Image Computing and Computer-Assisted Intervention, April 2026.

CONFERENCE PRESENTATIONS

- Poster: "Promoting MRI Education in Nepal." ISMRM & ISMRT Annual Meeting & Exhibition, 2026. Authors: **Usha Poudel Lamgade**, Yashawant Kumar Yadav, Renuka Gurung, et al.
- E-poster: "Quantitative Anisotropy Differences between Healthy Adult and Child Brain." ISRRT World Congress, Hong Kong, 2024; published in Journal of Medical Imaging and Radiation Sciences, 2024. Authors: **Usha Poudel Lamgade**, Karuna Raya Chhetri, et al.
- Presentation: "Tract-Based Spatial Statistics of Normal Adult and Child Brain." 8th Annual Scientific Meeting of the ISMRM Japanese Chapter, September 2023. Authors: **Usha Poudel Lamgade**, Karuna Raya Chhetri, Surendra Maharjan, et al.
- E-poster: "An Assessment of Knowledge on Radiation Protection and Radiobiology among Dental Students and Interns in a Tertiary Hospital in Nepal." ISRRT World Congress, December 2022. Authors: **Usha Poudel Lamgade** and Sudil Paudyal.

LANGUAGES

English, Nepali, and Hindi

PROFESSIONAL PROFILES

- LinkedIn: <https://www.linkedin.com/in/usha-poudel-lamgade-28950a189>
- Google Scholar: <https://scholar.google.com/citations?user=c1jj8EAAAAJ&hl=en&oi=ao>
- GitHub: <https://github.com/Usha12-star>
- ORCID: <https://orcid.org/0000-0001-5749-9517>
- ResearchGate: https://www.researchgate.net/profile/Usha-Lamgade?ev=hdr_xprf

REFERENCES

Available upon request.