



DEWALAGE DILANI NERANJANA WIMALARATHNA

D.O.B 03/04/1986

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Nationality: Sri Lankan.

Address: 16/38 A, Gonagaldeniya, Waharake, Ruwanwella, Sri Lanka.

Education qualifications:

**Huazhong University of Science and Technology 2017-
Continuing**

Reading PhD in Medical Imaging Technology

University of Colombo, January 2015- 2017 September

Postgraduate Diploma in Medical Physics

University of Peradeniya, December 2007 - October 2013

Bachelor of Science (Hons) in Radiography

Undergraduate Research Project:

**Study of Medical Image Processing Methods and
Application.**

University of Colombo, December 2007 - January 2013

Bachelor of Information Technology

Undergraduate Research Project:

Web Based Performance Appraisal System for Allion Technologies Pvt. Ltd.

Awards and Scholarships:

China Scholarship Council (CSC) PhD fellowship, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, China PR, September 2017- Continuing

Global Health Student Exchange Program fellowship for learning and training in medical imaging research at the School of Health Sciences, Faculty of Medicine, Niigata University, Japan in August 2011 to November 2011.

Secondary education:

**Kg/ St. Joseph's Balika, Sri Lanka, Higher School G.C.E
A/L (Advanced Level) 2005-2007.**

Biology – B, Chemistry – B, Physics – C and English – B (Island Rank 2145).

I was selected for the Department of Radiography and Radiotherapy, Allied Health Science Faculty in Peradeniya Sri Lanka based on my A/L results.

**Waharaka Sri Sumangala Dhaham Pasala
Final Certificate Examination 2003**

Passed with 4 Distinctions to all subjects.

**Kg/ St. Joseph's Balika, Sri Lanka, Secondary School
G.C.E. O/L (Ordinary Level) 2002.**

Passed with 9 Distinctions and 1 B pass.

**Kg/ Dehi/Ruwanwella Royal Collage, Sri Lanka, Primary
School**

Grade five Scholarship Examination 1996.

Passed and scored 140 marks out of 200.

Professional qualifications:

Registered Radiographer of Sri Lanka Medical Council-Reg. No 589

As an undergraduate In-service trainee radiographer;

Successfully completed placements at following government and private sector hospitals:

- **General Radiography, Fluoroscopy**- Teaching Hospital Kurunagala
- **Dental Radiography** - Dental Hospital Peradeniya
- **MRI, CT, Nuclear Imaging, Fluoroscopy, DXA**- Lanka Hospital PLC
- **Nuclear Imaging** - Peradeniya Nuclear Medicine Department
- **MRI, CT, Fluoroscopy** - Nawaloka Hospital PLC
- **CT**- Asiri Hospital Kandy
- **Mammography**-Suwasetha Medicare center Kandy

Certificate Teaching in Higher Education/CTHE- KDU-2016

Higher Diploma in Information Technology-UCSC-2011

Diploma in Information Technology-UCSC-2008

As a student learner in Information Technology following technologies were practiced:

- **Languages:** HTML, CSS, JavaScript, Java, SQL, PHP, AJAX
- **Frameworks:** Yii PHP Framework 1.1.10
- **IDEs:** Net Beans IDE 7.0.1, Eclipse
- **Application Servers:** Tomcat5, Apache
- **Design Skills:** UML Modeling
- **Tools:** Enterprise7.02, TortoiseSVN 1.7.7, Notepad, Text pad
- **Database:** MySQL
- **Applications:** Microsoft Office Package, Adobe Photoshop CS3, Adobe, Dreamweaver CS3
- **Knowledge in RUP Process,** Agile, Traditional methods
- **Exposure in OS:** Windows XP and Linux

Memberships in academic & professional bodies:

Registered Radiographer as a member of PSM (profession supplementary to medicine) in Sri Lanka Medical Council-Reg. No 589

Member of Society of Radiological Technologists Sri Lanka (SRTSL) - Reg.No 667

Member of IEEE- No: 96408374

Career history:

Radiographer (Department of Radiology), Nawaloka Hospital PLC, Sri Lanka.

October 2013- January 2014

ICT Teacher/ Instructor (Department of Education) Kg/Dehi/Imbulana M.V, Sri Lanka.

January 2014- October 2014

Probationary Lecturer at the Faculty of Allied Health Sciences (Department of Radiography and Radiotherapy), General Sir John Kotelawala Defence University Sri Lanka.

October 2014- to present date

Coordinator of the Department of Radiography and Radiotherapy at the Faculty of Allied Health Sciences, General Sir John Kotelawala Defence University Sri Lanka.

June 2015- to September 2015

Acting Head of the Department of Radiography and Radiotherapy at the Faculty of Allied Health Sciences, General Sir John Kotelawala Defence University Sri Lanka.

September 2015- to September 2017

Contribution towards KDU as A/HOD:

Academic:

1. Carder revision of Department of Radiography & Radiotherapy-2015
2. BSc Hons (Radiography) 3+1 curriculum was revised and approved by the senate
3. Forming of the BSc Hons (Radiotherapy) curriculum and approval process from senate to commence the Radiotherapy Degree programme.

4. Finalized CMCC documents of Department of Radiography and Radiotherapy.

Lab Equipment and Infrastructure Development and Licensing:

1. Lead (Pb) glass fixation was done in the X ray room
2. Chemicals project was done for image processing purposes.
3. X ray room plan was got approved by AERC (Atomic energy regulatory council)
4. CR (computed radiography) system was installed.
5. X ray machine was installed in the Radiography skills laboratory.
6. X ray facility was licensed for clinical usage by AERC.
7. TLD Project-Purchased 35 TLD (Thermoluminescent dosimeters) holders and one holder opener for student usage in clinical practices.
8. Radiation protection devices Project-Purchased of radiation protection devices for the skills lab.
9. Raw item for the X ray laboratory-Purchased of three (03) dry film boxes for newly installed CR (computed radiography) system.
10. Request made for plumbing requirement (two sinks) to Radiography skills laboratory
11. Request made for a changing area to be established in the Radiography skills laboratory
12. Request made for a curtains/ Blinds to image processing room in Radiography skills laboratory

Clinical Placements:

1. Permission was occupied and access was given to Radiography undergraduates to Apeksha Hospital Maharagama and Lady Ridgway Hospital Colombo- 2015
2. Permission was occupied and access was given to Radiography undergraduates to Asiri surgical, Asiri central and Durdans Hospital PLC- 2016

Coordination of Modules with Visiting Lecturers:

1. Principles of radiation Dosimetry for diagnostic Radiographers- Prof. P Mahawatte
2. Applied Imaging CT and MRI- Dr G Senanayake, Dr AS Pallewatte, Dr D Gunasekara
3. Radiation Protection II for diagnostic Radiographers-Deputy Director AERC- Mr S Thenuwara, Director AERC- Mr. A Ranjith
4. Practice of Quality Assurance in Radiography-Deputy Director AERC- Mr S Thenuwara, Director AERC- Mr. A Ranjith
5. Maintenance of diagnostic radiography Equipment- Director Bio Medical Engineering Services Mr S Herath
6. Pediatric Radiography- Senior Radiographer-LRH Mr PDT Pathirana
7. Applied Anatomy in Plain Radiography, mammography and contrast studies-Dr G senanyake, Dr D Gunasekara
8. Nuclear imaging-Dr JMC Udugama

Coordination of practical examinations with external Examiners:

1. School of Radiography- Principal Mr VG Wimalasena
2. National Hospital Sri Lanka- Sup. Radiographer-Mr SS Jayasinghe
3. Nawaloka Hospital PLC- Senior Radiographer Mr J Weerakkodi, Mr HP Wijerathne
4. Lanka Hospital PLC- Senior Radiographer- Mr RMU Ratnayke
5. Lanka Hospital Nuclear Medicine Department- Dr JMC Udugama, Mr S Indika de Silva
6. Sri Jayawardanepure Teaching Hospital- Senior Radiographer-Mr BGSS Dayasiri
7. Lady Ridgway Hospital- Senior Radiographer-Mr Ananda, Mr PDT Pathirana
8. IOH-Maharagama- Radiographer KKT Lakmal
9. Dental Institute Ward Place- Radiographer Mrs WG Wijesinghe

Organized workshops:

1. Ethics, Enhancing the awareness and capacity on ethics at KDU on 03rd march 2017 at FAHS by following resource personnel: Prof A. Sumathipala, professor of psychiatry, Keele University, Dr J Ives, Senior Lecturer in bio medical ethics and law, University of Bristol.
2. Imaging Physics and Clinical Applications of CT/PET organized by Department of Radiography and Radiotherapy, FAHS, KDU on 02nd Aug 2017.

Contribution in Committees/Boards KDU:

1. Member of Senate KDU-2015 to 2017
2. Member of Board of Studies KDU- 2015-2017
3. Member of Curricular revision committee of Department of Radiography & Radiotherapy-2015 to 2016
4. Member of QAA Cell, FAHS, KDU-2015 to 2017
5. Member of Bylaws revision committee FAHS- From 2016 to 2017
6. Member of BOE of FAHS-KDU-2015-2017
7. Member of PRB of FAHS-KDU-2015-2017
8. Member of Scrutiny Board of Department of Radiography & Radiotherapy- 2014 to 2017
9. Member of Conference marking Panel of Department of Radiography & Radiotherapy-2014 to 2017
10. Member of Radiology steering committee of UH- KDU From 2015 to 2017
11. Member of Technical Evaluation Committees under Department of Radiography & Radiotherapy- 2015-2017
12. Member of Technical Evaluation Committees under Radiology Department UH-KDU-2016-2017

Guided CSR projects:

1. Intake 30 students Water supplying system and donation made to Kg/Galigamuwa Hakahinna K.V
2. Intake 32 Students Water filtering system and donation made to Po/Madirigiriya Udaragama P.V

Research and publications:

Published:

1. **Abstract: Wimalarathne, D.**, Lan, X., Zhang, Y., Ruan, W., An, R., Sun, X. and Hu, F., 2019. Impact of TOF (Time of Flight) reconstructions on SUVmax (Standard uptake value) in AD (Alzheimer Disease)/PD (Parkinsonism Disease) patients: Using of ^{18}F -FDG, ^{11}C -CFT and ^{11}C -PIB.
2. **Full Paper:** Niyonkuru, A., Chen, X., Bakari, K.H., **Wimalarathne, D.N.**, Bouhari, A., Arnous, M.M.R. and Lan, X., 2020. Evaluation of the diagnostic efficacy of ^{18}F -Fluorine-2-Deoxy-D-Glucose PET/CT for lung cancer and pulmonary tuberculosis in a Tuberculosis-endemic Country. Cancer medicine, 9(3), pp.931-942.
3. **Full Paper:** Sun, X., Liu, F., Liu, Q., Gai, Y., Ruan, W., **Wimalarathne, D.N.**, Hu, F., Tan, X. and Lan, X., 2019. Quantitative research of ^{11}C -CFT and ^{18}F -FDG PET in Parkinson's disease: a pilot study with NeuroQ software. Frontiers in Neuroscience, 13, p.299.
4. **Full Paper:** GGC Perera, WSS Jayasinghe, WBC Nisansala, **DDN Wimalarathne**, GLS Galgamuwa and G Senanayake. (2018); Evaluation of radiation dose to thyroid glands during diagnostic mammography; A Comparison of Cranio Caudal (CC) and Medio Lateral Oblique (MLO) Views. Int. J. of Adv. Res. 6 (May). 851-858] (ISSN 2320-5407). www.journalijar.com
5. **Full Paper:** **DDN Wimalarathna**, DPS Wimalaratne. Performance Appraisal System for Allion Technologies (PVT) LTD. Proceedings in Computing, 8th International Research Conference; Inculcating Professionalism for National Development, 27 – 28 August 2015; 189-196.
http://www.kdu.ac.lk/proceedings/irc2015/View_page.php?key=70
6. **Full Paper:** **DDN Wimalarathna**, J Thiruchelvem, Prof.R.D Jayasinghe. (2016); Comparison of 3D alignment of knee between normal and osteoarthritis subjects by measuring the femoral tibial angle (FTA) using, 3D bone model image fitting technique. Int. J. of Adv. Res. 4 (10). 2218-

2223] (ISSN2320-5407)

7. **Abstract:**RRWMGC Ranaweera, AMMS Costa, MAHA Wickramasinghe, RMHS Rathnayaka, **DDN Wimalarathne**, Snr. Prof WD Ratnasooriya 2017; Knowledge and Attitudes of Cath Lab Nurses on Radiation Protection in Selected Hospitals of Western Province, Sri Lanka, Poster Presentation in 10th INTERNATIONAL RESEARCH CONFERENCE, 63
8. **Abstract:**GGC Perera, WSS Jayasinghe, WBC Nisansala, **DDN Wimalarathne**, GLS Galgamuwa, Dr G Senanayake, 2017, Radiation dose received to thyroid glands of patients undergoing mammography; Caudal (CC) and Medio Lateral Oblique (MLO) views. Oral Presentation in 10TH INTERNATIONAL RESEARCH CONFERENCE, 35
9. **Abstract:**WMIS Wickramasinghe, IS Nanayakkara, KGDM Ketagoda, IG Uduwakanda, **DDN Wimalarathne**, WM Ediri Arachchi and Dr AS Pallewatta; Abstract presentation titled "Age and gender related variations in the Dimensions of Selected Anatomical Structures of Brain in MRI of Adults in Sri Lanka" by has been presented at the 21st Asia-Australasia Conference of Radiologic Technologist, Hong Kong 2017.
10. **Article:****DDN Wimalarathne**; Problem based learning (PBL) in training of Radiology Technologist; The Radiographer, The society of Radiological Technologist, Sri Lanka, Vol 12, ISSN 1391- 0795

Workshops attended:

1. Bio medical Engineering of the 2015 IEEE 10th International Conference on Industrial and Information Systems (ICIIS) held in the Faculty of Engineering, University of Peradeniya Sri Lanka during 17th -20th December 2015.
2. Effective Research Proposal Writing by NSF (National Science Foundation) on 07 October 2016.
3. Training course on Radiation protection & quality assurance in diagnostic & interventional radiology for radiographers working in government hospitals conducted by the Sri Lanka Atomic Energy Regulatory Council 29th to 02nd December 2016.
4. Ethics Teachers Training course (ETTC) UNESCO on 20th – 24th, February, 2017 at Sri Lanka Foundation Institute, Colombo
5. Imaging Physics and Clinical Applications of CT/PET organized by

Department of Radiography and Radiotherapy, FAHS, KDU on 02nd Aug 2017.

6. Introduction to Systematic Review for Medical Professionals organized by Department of Nursing and Midwifery , FAHS, KDU on 01st Aug 2017
7. Successfully completed Online Short course of Control of Radioactive Material Inadvertently Incorporated into Scrap Metal by IAEA (International atomic energy agency),02nd November 2020
8. Successfully Online Short course of Radiation Dose Management in Computed Tomography by IAEA (International atomic energy agency), 05th December 2020

Additional Information:

1. Member of “Crown to the Nation public exhibition” representing team from radiography/radiotherapy dept. of Allied Health Sciences of University of Peradeniya.
2. Certificate in instruction of First Aid- Organized by St. John Ambulance Association, Sri Lanka.
3. Member of university of Peradeniya Badminton society.
4. Member of university explore club.
5. Member of Faculty of Allied health sciences 07/08 batch sports team.
6. Captain of the St.Joseph’s Balika Badminton team since 2005 from 2000 and member of the Science debating society. Have obtained many certificates from annual prize giving’s and color awarding ceremonies.

Referees:

Senior Professor M Weerasooriya

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