Vishaka **Pathiranage**

"A young scientist showing intellectual acquisitiveness in the field of bio-physical chemistry and a humble individual who is working hard towards her goals"

Education

Wayne State University

Detroit MI

DOCTORAL DEGREE IN CHEMISTRY

August 2021 - Present

· Carrying out computational studies on fluorescent tags and fluorescent proteins

College of Chemical Sciences, Institute of Chemistry Ceylon

Rajagiriya, Sri Lanka

GRADUATESHIP EXAMINATION IN CHEMISTRY

Jan. 2015 - Dec 2018

• Second Class (Upper Division)

• Completed the practical and theory course modules totaling to 120 credits

The Ceylon Medical College Council

Colombo, Sri Lanka

CERTIFICATE OF EFFICIENCY AS PHARMACIST

Nov. 2013 - Dec. 2016

• Successfully completed the practical and theory examinations

• Registered under section 56 of the medical ordinance (Chapter 105) as a Pharmacist

The University of Sabaragamuwa

Belihuloya, Sri Lanka

DIPLOMA IN ENGLISH

Feb. 2014 - Feb. 2015

Merit pass

• Successfully completed prescribed courses of study and the examinations

Instrument Handling Hands on experience in AAs, GC-FID, UV-Vis and Fluorescence spectrometers

Programming Gaussian, UCSF ChimeraX, Avogadro, PyMOL, Amber, VMD, TeraChem and AlphaFold

Research and Work Experience _

Wayne State University

Detroit, MI

GRADUATE RESEARCH STUDENT IN WALKER LAB

Aug. 2021-PRESENT

· Carrying out molecular dynamics simulations of fluorescent proteins and QM/MM studies on fluorescent tags

Wayne State University

Detroit, MI

GRADUATE TEACHING ASSISTANT

Aug. 2021-PRESENT

· Conducted general chemistry practical for undergraduate students and helped them for enrich their practical skills

College of Chemical Sciences, Institute of Chemistry Ceylon

Rajagiriya, Sri Lanka Mar. 2017 - Aug 2018

Undergraduate Researcher

· Conducted research under title of "Method Development and Validation of Lipid Lowering Drug Atorvastatin using UV-Visible Spec-

• Development and validation of a novel UV spectroscopic methodology to monitor the lipid lowering drug Atorvastatin following International Conference of Harmonization (ICH) guidelines under supervision of Dr. Udaya K. Jayasundara

The University of Colombo (Faculty of Medicine)

Colombo, Sri Lanka

DEMONSTRATOR

Jul. 2020 - PRESENT

· Perform duties and responsibilities related to the curriculum implementation unit of the faculty

College of Chemical Sciences, Institute of Chemistry Ceylon

Rajagiriya, Sri Lanka

GRADUATE TEACHING ASSISTANT

Jan. 2018 - Dec. 2019

• Conducted physical, inorganic, organic chemistry practicals to undergraduate students

 Conducted microbiology, biochemistry, hematology and food chemistry practicals to students following Diploma in Laboratory Technology

Nawaloka Care (Pvt) Ltd

Colombo 02, Sri Lanka

PURCHASING MANAGER

Jun. 2017 - Sept. 2017

 Placed purchasing orders for medicines, medical equipments and other sanitary items needed for the chain of outlets under the company

• Gained an in-depth knowledge of key health and safety standards used within the industry

State Pharmaceutical Cooperation

Rathnapura, Sri Lanka

Trainee Pharmacist Dec. 2013 - Jan. 2015

· Dispensing prescribed drugs for patients and preparation of extemporaneous preparations prescribed by doctors

Awards _

2008 All Island first prize, Asia Pacific children's art competition Sri Lanka

2006 **District and provincial first prize**, Sinhala language and literature competition - hand writing *Sri Lanka*

2012 First prize, Best performance in science subjects - Ferguson high school Sri Lanka

Professional Qualifications

Institute of Chemistry Ceylon

Rajagiriya, Sri Lanka

MEMBERSHIP

• Associate member of the Institute of Chemistry Ceylon

Jan. 2019- Present

Morison PLC Colombo, Sri Lanka

WORKSHOP

Jul 2020

 Successfully completed the certificate course covering the topics introduction to manufacturing, research and development process, quality process, production process and regulatory functions in pharmaceutical manufacturing industries

Sanofi Lanka Limited Sri Lanka

WORKSHOP

Jun 2014

Successfully participated in the programme on drug stability, shelf life and storage

University of Sri Jayawardanapura

Nugegoda, Sri Lanka

Workshop Apr. 2012

• Successfully participated the workshop on molecular genetics and its applications

Publications and Presentations

Co-Author Jul. 2021

• Jayasundara, U.; Herath, H, M, M, B.; Kaushalya, P, V, N., Method Development, Validation, and Concentration Determination of Metformin Hydrochloride and Atorvastatin Calcium Using UV-Visible Spectrophotometry. J Anal Bioanal Tech 2021, 12 (428), 2.

Frontiers in Chemical Technology 2020 International Conference

Colombo, Sri Lanka

PUBLISHED AND PRESENTED A RESEARCH

Jul. 2020

• Development of a new spectrophotometric method for the analysis of metformin hydrochloride and atorvastatin calcium in tablet formulation H. M. B. B. Herath, P. V. N. Kaushalya, U. K. Jayasundara

Annual Sessions of Institute of Chemistry Ceylon

Rajagiriya, Sri Lanka

PUBLISHED AND PRESENTED A RESEARCH

Jun. 2019

 Published in Chemistry in Sri Lanka Vol-36, No.2, page 17, May 2019 under the title "Method development and validation of lipid lowering drug atorvastatin using UV-Visible spectroscopy"

Annual Research Symposium College of Chemical Sciences

Rajagiriya, Sri Lanka

PRESENTED A POSTER AND A RESEARCH

Sept. 2018

• Method development and validation of lipid lowering drug atorvastatin using UV-Visible spectroscopy