

PHILIP R. FERNANDO

Phone: (+9471) 100-5377
philipf@uom.lk
[linkedin.com/in/philip5930](https://www.linkedin.com/in/philip5930)

No. 501/42
N.M. Appuhamy Mw,
Uhumeeya, Kurunegala,
Sri Lanka.

EDUCATION

University of Moratuwa, Moratuwa **Dec 2019 - July 2022**
Post Graduate Diploma in Material Science
Department of Material Science and Engineering
CGPA – 3.61/4.2 (Batch top among 30 students)
40 academic credits including 6 credit Research Component
Project Title: *Investigation of polyester and nylon knitted plated fabric shrinkage behavior due to machine and heat setting parameters.*

University of Moratuwa, Moratuwa **April 2013 - April 2017**
B.Sc. (Hons) Engineering
Specialized in Textile Process Engineering
Department of Textile and Clothing Technology
CGPA – Second Class Upper Division 3.4/4.2
Thesis Title: *Improving flame retardant properties of pigment printed materials*

TEACHING EXPERIENCE

University of Moratuwa, Moratuwa **August 2018 - Present**
Lecturer, Department of Textile and Apparel Engineering

- B.Sc. (Hons) Engineering, an undergraduate course averaging 100 students per year, covering the following modules:
 - Weaving Technology 1 (TT2044), Knitting Technology 1 (TT2033), Computer Aided Woven Fabric Design (TT4362)
- Module Coordination
 - Computer Applications in Textile Engineering (TT3920)
- Modules Instructing
 - Weaving Technology 1(TT2044), Weaving Technology 2(TT3270), Modern Developments in Weaving (TT4390), Advanced Yarn Manufacture (TT4389), Nanotechnology 1(TT3160), Comprehensive Design Project (TT4354), Color Measurement and Color Matching (TT4302), Engineering Skills Development (TT1964), Principles of Textile Machinery and Instrumentation (TT2094).
- Lead member of the department IESL (Institution of Engineers Sri Lanka) Standards implementation project.

Philip R. Fernando

- Instructing external courses to the industry
 - Textile Technology for the Garment Industry
- Organizing Committee Member of Events Techno Exhibition 2019, Graduation Fashion Show 2018

Projects Supervised

- *A Computational tool to estimate the resources required for bulk screen-printing process.*
- *Influence of weft yarn tension during rapier weft insertion on the properties of stretch (elastic) woven fabrics.*
- *Minimizing the discrepancy between measuring length and the actual length of warp on sectional warping process.*
- *Investigation of the color of weft yarn on woven fabric properties.*

PROFESSIONAL EXPERIENCE

MAS Active Linea Intimo (Pvt) Ltd, Biyagama Design Engineer

2017 April – 2018 Aug

MAS Holdings is the largest exporter of intimate apparel and sportswear from Sri Lanka. Linea Intimo (Pvt) Ltd manufacture and export knitted seamless body-wear, mainly catering to the upper market of Europe, USA and Canada.

- Design and development of seamless sports and performance wear
- Yarn supply chain management
- Implemented problem solving culture (PDCA) in the development department


MAS Linea Aqua, Hanwella Intern

2015 Oct – 2016 April

Successfully completed the internship at MAS Linea Aqua, a leading manufacturer of performance and high fashion swimwear. Multimillion-dollar joint venture between MAS Holdings, Speedo International Limited and Brandot International.

PUBLICATIONS

- Perera, Y., Muwanwella, R., **Fernando, P.**, Fernando, S. and Jayawardana, T., 2021. Evolution of 3D weaving and 3D woven fabric structures. *Fashion and Textiles*, 8(1). doi.org/10.1186/s40691-020-00240-7
- Weerasinghe, D., Napagoda, A., **Fernando, P.** and Gunasekera, U., 2017. Improving flame retardant properties of pigment printed materials. 2017 Moratuwa Engineering Research Conference (MERCon),. DOI:[10.1109/MERCon.2017.7980481](https://doi.org/10.1109/MERCon.2017.7980481)
- Vijayarajah, V., **Fernando, P.** and Muwanwella, H., 2022. STUDY ON HYDROPHOBIC SURFACES OF TEXTILE FABRIC USING HYDROPHOBIN. [online] Ijsrit.com. Available at: <<https://ijsrit.com/wp-content/uploads/2022/04/4.Dec-21.pdf>>.

- Rathnayaka E M M W S V, Kalarooban S, **Fernando P R**, Wijesena G H D , Fernando E A S K, Jayawardane T S S Development of a mathematical model for weft yarn tension of an elastomeric weft insertion of rapier , Volume 8 - Issue 6 November - December 2022 International Journal of Engineering and Techniques (IJET) ,ISSN:2395-1303 , www.ijetjournal.org  [10.5281/zenodo.7391118](https://doi.org/10.5281/zenodo.7391118)

HONORS AND AWARDS

Best Paper Award

Oct 2022

Awarded by The Korean Society of Clothing and Textiles

“Evolution of 3D weaving and 3D woven fabric structures.” article has been recognized as the best paper published in Fashion and Textiles (a **Q1** journal in Materials Science and Textiles) for the year 2022.

PROFESSIONAL DEVELOPMENT

Staff Development Programme for Probationary Lecturers

April 2021 – Oct 2021

University of Kelaniya, Kelaniya

An induction programme for academic staff of Sri Lankan Universities and modules covered are: Personal Development and Counseling, Teaching and Learning Methods, Assessment and Evaluation, Curriculum Design and Revision, Teaching Practice, Research in Higher Education

PROFESSIONAL AFFILIATIONS

Institution of Engineers Sri Lanka

2017-Present

Associate Member

PROFESSIONAL SERVICE

Member -Technical Evaluation Committee

2021-2022

Ministry of women and child development, preschool and primary education, school infrastructure and educational services

- To assist the standing cabinet appointed procurement committee (SCAPC) for the procurement of school uniforms for the year 2022.

Member – Supervision committee

2019-2020

Ministry of Education

- Supervised the process of procuring school uniforms

LANGUAGES

English: IELTS Overall Band – 7.0

Nov 2021

Listening 7.5, Speaking 7.0, Reading 7.0, and Writing 6.5

INSTRUMENTS AND SOFTWARE

Datacolor 800 Spectrophotometer
Santoni Seamless software
Mu Cad software
SDS-ONE Apex 3D software
Anylogic simulation software

EXTRA-CURRICULAR ACTIVITIES

University of Moratuwa Best overall football player of the year	2016
University of Moratuwa University Colors man – 4 years	2013,2014,2015 and 2016
University of Moratuwa Captain, Football Team	2016

REFERENCES

Prof. Fernando EASK (Senior Lecturer)

MSc Mech. Eng. (Ivanova), PhD (Ivanova), CTex, FTI (UK)
Department of Textile and Apparel Engineering
University of Moratuwa.
(sandunf@uom.lk)

Prof. Lanarolle WDG (Senior Lecturer)

PhD (UMIST), CEng, MIE (SL)
Department of Textile and Apparel Engineering
University of Moratuwa.
(wilath@uom.lk)

Prof. Jayawardena TSS (Head)

BSc Eng. (Moratuwa), MSc OR (Moratuwa), PhD (Saga), SMIEEE (USA), CEng, MIE (SL),
CTex, FTI (UK)
Head, Department of Computer Systems Engineering,
Sri Lanka Institute of Information Technology (SLIIT).
(sanath.i@slit.lk)