Jerry Ochola (PhD Mat. Eng.)
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PERSONAL

Place of Birth: Kenya
Date of Birth: January 8, 1982
Sex: male
Language(s): English, Swahili, Luo(Kenya)

EDUCATION

University of Pavia, Pavia, Italy
Post-Doc Fellowship,
July, 2019
Project Title: Simulation of Biomechanical Structures for Repair of Fracture Femoral bones
Brief Synopsis: application of python programming and finite element analysis techniques for modelling and simulation of the potential of tubular textiles in repairing Femoral bones.

Ghent University, Ghent, Belgium
Doctor (PhD) of Materials Engineering
June 2017
Dissertation Title: Mechanical Modeling of Tubular Biomedical Textile Structure for Repair of Ruptured and Degenerated Tendons.
Brief Synopsis: The use of finite element analysis techniques for modelling and parametric analysis of feasibility of tubular biomechanical textiles in repairing tendons.

Moi University, Eldoret, Kenya
Master of Science (MSc) in Textile Engineering
December 2011
Thesis: Modeling the influence of Fibre Properties on Yarn Parameters Using Statistical techniques and Artificial Neural Networks

Moi University, Eldoret, Kenya
Bachelor of Technology (BTech) in Textile Engineering
October 2007

EMPLOYMENT

Lecturer
Moi University, Eldoret, Kenya
Department of Manufacturing Industrial & Textile Engineering
2013—Present

Research Scientist
Kenya Industrial Research and Development Institute (KIRDI), Nairobi, Kenya
Textile Engineering Department
2012—2013.

Assistant Manager
Rivatex East Africa Limited, Eldoret, Kenya
Production Department
2008—2012

Postgraduate Students Supervision

s/n	Student Name	University	Date
1	Helene Granval	Ghent University	2014 - 2015
2	Attiya Musa	Ghent University	2015 - ongoing
3	Joan Jepkosgei	Moi University	2015 - ongoing
4	Pharez Chida	Moi University	2017 - ongoing
5	Jackson Birir	Moi University	2017 - ongoing
6	Winnie Tanui	Moi University	2018 - ongoing
7	Brian Bett	Moi University	2018 - ongoing

RESEARCH PROJECTS

Project title: Development of Tubular structures for repair of ruptured and degenerated tendons
Funding: VLIR-UOS program, Belgium
Role: Principal researcher
Status: Ongoing

Project title: Simulation of Biomechanical Structures for Repair of Fracture Femoral bones
Funding: Post Doc Research Fellowship - CICOPS scholarship, University of Pavia, Italy
Role: Researcher
Status: Ongoing

PUBLICATIONS

Patent

Innovation of repair of ruptured and degenerated tendon using fibrous textile structures. (2013). Ghent University Techtransfer. Proof of concept – in progress

Journal papers

Jerry Ochola, Mathias Peirlinck, Ian Peeters, Benny Malengier, Matthieu De Beule, John Githaiga, Lieven De Wilde and Lieva Van Langenhove (2018) Feasibility of Reinforcing Suture Repaired Tendon Using a Tubular Braided Fabric: Finite Element Study (**Under Review**)

Jerry Ochola, Benny Malengier, Lode Daelemans, John Githaiga and Lieva Van Langenhove. (2017) Experimental and Numerical Analysis of the Tendon Repair Process using Tubular Braided Fabrics. AUTEX Research Journal, DOI: 10.1515/aut-2017-0007. **(Impact Factor: 0.716, 2017**).

Jerry Ochola, L. Daelemans, B. Malengier, L. Van Langenhove. (2016) Finite Element Simulation of the Deformation Behaviour of Tubular Braided Structures for Biomedical Applications Subjected to Tensile Loading. Textile Research Journal. Textile Research Journal. 0(00) 1–9. DOI: 10.1177/0040517516651106. **(Impact Factor: 1.443, 2016**).

Books

Jerry Ochola. (2017). Mechanical Modeling of Tubular Biomedical Textile Structure for Repair of Ruptured and Degenerated Tendons. Ghent University Press. (Belgium). ISBN 978-94-6355-012-3.

Jerry Ochola, J. Igadwa and E. Oyondi. (2011). Modeling the influence of fiber properties on yarn parameters. Lambart Academic Publishers (Germany). ISBN 978-3-8473-1775-3.

Conference proceedings

Jerry Ochola, Benny Malengier, John Githaiga and Lieva Van Langenhove (2016). Analysis of parameters influencing the jamming effect in circular braids. WIT TRANSACTIONS ON THE BUILT ENVIRONMENT. 166. p.1-9.

Jerry Ochola, Benny Malengier and Lieva Van Langenhove (2016). Approximating elastic modulus of a tubular braided fabric under compressive deformation using FEM and experimental data. Autex World Conference 2016. p.1-6.

Jerry Ochola, B. Malengier, J. Githaiga, L. Van Langenhove, (2015). Analysis of Parameters influencing the Jamming Effect in circular Braids. 7th International Conference on Computational Methods and Experiments in Materials Characterisation. 22 - 24 April, Valencia, Spain.

Jerry Ochola and Lieva Van Langenhove. (2014). Modeling a 3D braided structure using pyformex. 14th AUTEX World Textile Conference.

REFEREES

1. Prof. Lieva VanLangenhove
   Professor of Smart Textiles, Ghent University
   Technologiepark Zwijnaarde 907, 9052 Zwijnaarde, Ghent- Belgium
   phone: +32 (0) 9 264 54 19; email: lieva.vanlangenhove@ugent.be

2. Prof. Ambrose Kiprop
   Dean School of Biological & Physical Sciences
   Moi University, P.O. Box 3900, Eldoret 30100, Kenya
   phone: +254 (0) 719 241 704, email: ambkiprop@gmail.com

3. Dr. Benny Malengier
   Lecturer and Scientific staff, Ghent University
   Technologiepark Zwijnaarde 907, 9052 Zwijnaarde, Ghent- Belgium
   phone: +32 (0) 9 264 54 07; email: benny.malengier@ugent.be