



THE TECHNICAL UNIVERSITY OF KENYA

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EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	PHYSICS & NANO SCIENCES	UNIVERSITY OF MODENA & REGGIO EMILIA(Italy)	2018
Masters of Science (M.Sc.)	PHYSICS (COMPUTATIONAL MATERIAL SCIENCE)	UNIVERSITY OF ELDORET(Kenya)	2013
Bachelor of Science (BSc)	PHYSICS	MOI UNIVERSITY(Kenya)	2011
O level/Equivalent	KENYA CERTIFICATE OF SECONDARY EDUCATION	MOLO ACADEMY(Kenya)	2005
KCPE/Equivalent	KENYA CERTIFICATE OF PRIMARY EDUCATION	MOI PRIMARY(Kenya)	2001

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
July, 2019 - TO DATE	THE TECHNICAL UNIVERSITY OF KENYA	LECTURER
1 June 2014 - 30 May 2015	ICTP	TRIL Fellow
26 Sept 2023 - 26 Sept 2024	KENET	HPC Facilitator

GENERAL STATEMENT ON RESEARCH AREAS

Ongoing interest High Throughput Computing and High Performance Computing, and its applications to research in Condensed Matter/Materials Modelling and to the solution of difficult physics problems, and related challenges.

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Theoretical study of Niobium-Doped Titanium Oxide	View online	2019
Many-body perturbation theory calculations using the yambo code	View online	2019

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Muchiri, Perpetua	EFFECT OF DEFECTS AND TEMPERATURE ON THE MECHANICAL AND ELECTRONIC PROPERTIES OF NbC AND NbN: A FIRST PRINCIPLES STUDY	2019-2023