

Livingstone Onyango Ochilo

Curriculum Vitae

PERSONAL DETAILS

<i>Birth</i>	November 15, 1968
<i>Address</i>	P.O. Box 210-40601, Bondo, Kenya
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<i>Email</i>	livingstone.ochilo@gmail.com
<i>Nationality</i>	Kenyan

PERSONAL PROFILE

I am a researcher and lecturer of physics, currently based at the Jaramogi Oginga Odinga University of Science and Technology in Bondo, Kenya. Having graduated with a Ph.D at the university of Siegen in Germany, I am equipped to teach both undergraduate and post-graduate students in various areas of physics and to conduct the supervision of student research at both levels. My area of specialization is Astroparticle Physics.

EDUCATION

Ph.D. Astroparticle Physics	2012-2016
<i>University of Siegen, Germany</i>	
Thesis Title: Mass Composition of Ultra-High Energy Cosmic Rays: A Study Based on Elongation Rate of Depth of Shower Maximum Measured at the Pierre Auger Observatory	

Theoretical studies

Advanced particle physics, Detector physics, Historical study of cosmic rays

Publications

A sample of the full-author Pierre Auger papers in whose publication I have participated is given in the list below.

- Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. *Physical Review Letters* 116, 241101 (2016)
- Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. *Physical Review D* 93, 122005 (2016)
- Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. *Physical Review D* 93, 072006 (2016)
- Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. *Physical Review D* 91, 092008 (2015)
- Measurement of the cosmic ray spectrum above 4×10^{18} eV using inclined events detected with the Pierre Auger Observatory. *Journal of Cosmology and Astroparticle Physics*. JCAP 08 (2015) 049

MSc. Simulation study of cosmic rays

2007-2010

Kenyatta University

Thesis Title: Simulation of the charge ratio of cosmic ray muons in extensive air showers using CORSIKA

Bachelor of Education (Science)

1988-1991

Kenyatta University

Qualification as a trained teacher to teach physics and mathematics in Kenyan high schools.

WORK EXPERIENCE

Lecturer

Dec 2016 – Present

Jaramogi Oginga Odinga University of Science and Technology

Teaching of Physics and Research.

Internal Thesis Examination: Mr. Edwin Atego (MSc), Mr. Jack Abibo (Ph.D)

Conference Presentations: DPG Conference, Wuppertal, Germany (2015), Kabarak University International Conference on Computing and Information Systems (2018).

High school teacher

1991 - 2012

Teachers Service Commission, Kenya, Full-time

Teaching of Physics and Mathematics in Kenyan high schools. Mastery of pedagogical skills founded on student-centred learning; capacity to communicate complex ideas.

COMPETENCY DEVELOPMENT

- (1) **Workshop on Pedagogical Skills** held in JOOUST Main Campus from 26th - 27th June **2018**.
- (2) **Training on Access to Online Patent and Non-Patent Information, Database Search, Monitoring Technology and Competitors, Basic IP Laws** held at JOOUST Main Campus on 9th October **2018**.
- (3) **Regional Knowledge Transfer Training** organized by the GIZ from 22nd – 25th November **2017** in Addis Ababa, Ethiopia.

MEMBERSHIP IN PROFESSIONAL BODIES

Physics Society of Kenya	(2017 – Present)
Kenya National Academy of Sciences	(2018 – Present)
Kenya DAAD Scholars Association	(2017 – Present)
German Physical Society (DPG)	(2012 – 2017)

SKILLS

Languages

English (fluent)
German (basic)
Kiswahili (fluent)

Software

C++, LaTeX, ROOT, MicrosoftOffice™

REFERENCES

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