

CURRICULUM VITAE

I. BIODATA

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II. ACADEMIC QUALIFICATION

(a) University Education:

University	Period	Qualification
Makerere University	2017-2020	Ph.D in Physics
University of Bergen (UiB) Norway	2008-2009	M.Sc. (Physics)
Makerere University	2002-2005	B.Sc. Education

(b) Pre-University Education:

School	Period	Qualification
Mityana Secondary (U.A.C.E) School	2000-2001	Uganda Advanced Certificate of Education
Mityana Secondary School	1996-1999	Uganda Certificate of Education (U.C.E)
Naama Junior Primary School	1989-1995	Primary Leaving Certificate (P.L.E)

(c) Courses undertaken

Postgraduate School: **Ph.D Thesis Title:** Modeling Precipitable Water Vapour using Global Navigation Satellite System data over East African Tropical Region.

Postgraduate School: **M.Sc. Thesis Title:** Effect of Ultraviolet Radiation on Phytoplankton Photosynthesis measured using Fibre-Optical oxygen Sensors.

Undergraduate: Physics, Mathematics, Education.

III. WORKING EXPERIENCE

2006- 2008 Physics Teacher Ndejje Secondary School, Luwero

2010- Present Lecturer Busitema University

2010-2012 Member Curriculum review committee, Physics Department, Busitema University.

2013 Coordinator of undergraduate research projects, outreach and exhibitions, Physics Department, Busitema University.

2014-2016 Ag.Head of Physics Department, Busitema University.

IV. AWARDS

- (a) Awarded a scholarship by the Norwegian government for a Master of Science in Physics on Quota Scheme at the University of Bergen (UIB) in January 2008.
- (b) Awarded African Development Bank scholarship through Busitema University for a Ph.D. in Physics.

V. STUDENTS' SUPERVISION

- 1. I have supervised a number of Undergraduate projects
- 2. I have supervised a number of students on school practice
- 3. Below is the postgraduate student under my supervision.

S/N	Name	Reg.No.	Title	Level	Status
1	Mbayo Peter	BU/GS19/MSP/3	Development and validation of weighted mean temperature model for Nairobi and Malindi	MSc.	Ongoing

VI. PUBLICATIONS.

- 1) **Ssenyunzi, R.C.**, Oruru, B., Dujanga, F.M., Realini, E., Barindelli, S., Tagli aferro, G., & van de Giesen, N. (2019). Variability and accuracy of Zenith Total Delay over the East African Tropical Region. *Adv. Space Res.*, 64, 900 - 920.
- 2) **Ssenyunzi, R. C.**, Oruro, B., D’ujanga, F.M., Realini, E., Barindelli, S., Tagliaferro, G., van de Giesen, N., & von Engeln, A. (2020). Performance of ERA5 data in retrieving Precipitable Water Vapour over East African tropical region. *Adv. Space Res.* 65, 1877-1893. <https://doi.org/10.1016/j.asr.2020.02.003>.
- 3) **Ssenyunzi, R. C.**, Oruro, B., D’ujanga, F.M. (2021). Linear regression models to predict the tropospheric parameters at the Global Positioning systems’ sites over the East African region. *East African Journal of Science, Technology and Innovation* 2(3).
- 4) Amabayo, E. B, Andima, G., **Ssenyunzi, R. C.** (2021). Instantaneous Ionospheric Scintillation Mapping over the East African Region by use of GPS Derived Amplitude Scintillation Proxy. *Asian Journal of Research and Reviews in Physics* 4(2): 6-20.

VII. SCHOOLS, WORKSHOPS AND TRAININGS.

- (a) **3rd - 4th, October 2011 – Licensing and inspection**, organized by the Government of the Republic of Uganda in Collaboration with the International Atomic Energy Agency (IAEA) through the ministry of Energy and Mineral Development, Uganda.
- (b) **21st October/ 1st November 2013 – Space Science Shool**, organized by Scientific Committee on Solar-Terrestrial Physics School (SCOSTEP) at Kenya Institute of Education, Nairobi.
- (c) Writing for publication training, held from 6th to 9th August 2018 at Makerere University
- (d) Advanced Research Methods training, held from 10th to 21st September 2018 at Makerere University.
- (e) Scholarly writing and communication skills training, held from 19th to 23rd August 2019 at Makerere University.
- (f) Philosophy of methods training, held from 15th to 26th March 2021 at Makerere University.
- (g) Instructional materials for the Revised Lower Secondary School Curriculum workshop held from 4th November to 4th December 2020 at St. John Bosco Nyondo Core PTC, Mbale.

- (h) Instructional materials for the Revised Lower Secondary School Curriculum workshop held from 16th August to 15th September 2021 at Bishop Willis Core PTC, Iganga.

VII. COMMITTEES

- (a) Member, Rotary Club of Buloba (2018 – present)

VIII. SERVICES

- (a) Reviewer Advances in Space Research
(b) Reviewer Acta Geophysica
(c) International Journal of Climatology
(d) Survey Review
(e) Remote sensing

IX. PROJECTS.

- (a) Team member, TWIGA project at Makerere University.

X. REFREES

1. Assoc. Prof. Olema Kani

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Busitema University,
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Tororo.
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2. Dr. Amabayo Emirant

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3. Prof. D'ujanga Florence

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