

Filimon Abel Mgandu

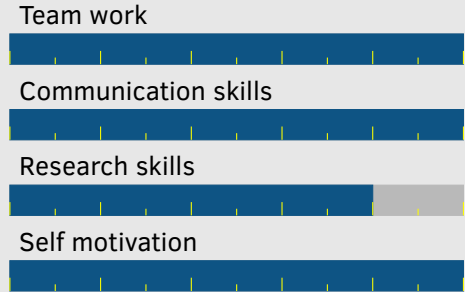
Assistant Lecturer

- 24 June 1992
- P.O Box 2077 Dodoma-Tanzania
- +255 759784638
- filimonabel2499@gmail.com

About me

I am university graduate pursued Bsc with Education (Informatics and Mathematics) and Msc in Mathematical Modelling, acquired competences in mathematics, informatics, psychology, education and computer. I am an articulate individual who works in a thorough and committed manner, quickly adapts to new systems and work successfully as part of a team.

Skill



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Education

2021-Todate	PhD Mathematics and Computational Science and Engineering	On Progress
	The Nelson Mandela African Institution of Science and Technology	
2017-2019	M.Sc. In Mathematical Modelling	GPA 4.3/5.0
	University of Dar es salaam.	
2013-2016	B.Sc. With Education (Informatics and Mathematics)	GPA 4.4/5.0
	Sokoine University of Agriculture	
2011-2013	Advanced Certificate of Secondary Education (ACSE)	Dvision Two
	Njombe Secondary School	
2007-2010	Certificate of Secondary Education (CSE)	Dvision One
	Kidamali Secondary School	
200-2006	Certificate of Primary Education	
	Kipera Primary School	

Career Objectives

- To use informatics and mathematics in solving a wide range of problems in Economy, Education, Environments, Health, Population, Science and Technology.
- To design, build and analyse models on large data sets using statistical softwares such as R, PYTHON, MATLAB, SPSS, STATA and others.
- To mine and analyse large datasets, draw valid inferences and present them successfully to management using a reporting tools.

Research Areas

- Data science / Big data.
- Statistics and Probability Theories.
- Computer programming.

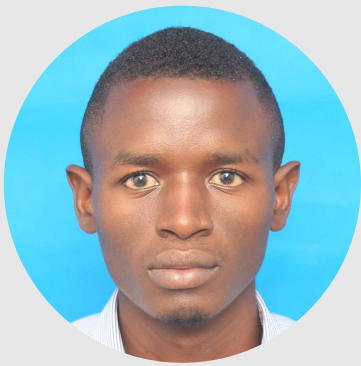
Research and Publications

Publications

- Filimon Abel Mgandu, Mashaka Mkandawile, Mohamed Rashid, "Modelling the Impacts of Climate Change on Water Level Fluctuations in Water Resources in Tanzania: A Case Study of Mtera Dam", International Journal of Mathematical Sciences and Computing (IJMSC), Vol.6, No.3, pp.22-32, 2020. DOI: 10.5815/ijmsc.2020.03.03
- Filimon Abel Mgandu, Mashaka Mkandawile, Mohamed Rashid. "Trend Analysis and Forecasting of Water Level in Mtera Dam Using Exponential Smoothing ", International Journal of Mathematical Sciences and Computing (IJMSC), Vol.6, No.4, pp.26-34, 2020. DOI: 10.5815/ijmsc.2020.04.03

Master's thesis

- Modelling the Impacts of Climate Change on Water Level Fluctuations on Water Resources in Tanzania: A Case Study of Mtera Dam.



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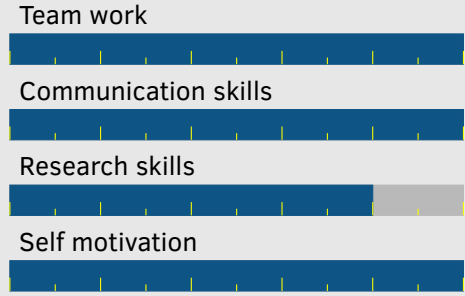
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Experience

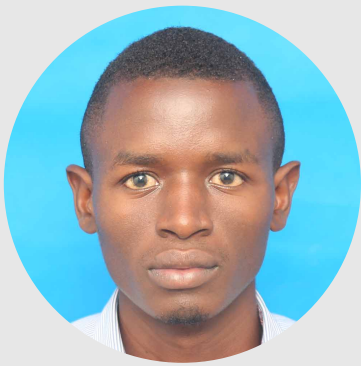
- 2019-Todate Assistant Lecturer** College of Business Education
 - Carrying out lectures, seminars, and tutorials for undergraduate courses.
 - Setting, invigilating and marking undergraduate examinations.
 - Supervising projects and practical training for students.
 - Conducting research and publishing results.
 - Carrying out consultancy and public service.
- 2016-2017 Teaching Assistant** East Coast Secondary
 - Taught mathematics and computer studies.
 - Marked the quizzes, assignments, and examinations.
 - Conducted extra classes to provide group and personal tutorials.
 - Supervised mathematics and ICT students clubs.
- 2013-2013 Teaching Assistant** Agnes Trust Secondary
 - Taught mathematics and computer studies.
 - Marked the quizzes, assignments, and examinations.
 - Conducted extra classes to provide group and personal tutorials.
 - Supervised mathematics and ICT students clubs.

Volunteering Experience

- 2013** National building service army at Msange Camp. Volunteering on doing community activities.
- 2010** Volunteered in teaching Mathematics at Kipera primary School.

Awards

- 2021** Research Award from Ministry of Agriculture under TANIPAC project for combating aflatoxin contamination in maize.
- 2019** Awarded 5000 USD from Mwalimu Julius Nyerere Memorial Scholarship Awards from Bank of Tanzania(BOT) for Research on Modelling the Impacts of Climate Change on Water Level Fluctuations on Water Resources.
- 2017** Mwalimu Julius Nyerere Memorial Scholarship Awards from Bank of Tanzania(BOT). Studying Masters of Science in Mathematical Modelling at University of Dar es salaam.
- 2016** Vice- chancellor, Sokoine university of Agriculture. Overall Best Final Year student in B. Sc. Education.
- 2016** Dean, Faculty of science, Sokoine university of Agriculture. Best Final Year student, B. Sc with Education (Informatics and mathematics).
- 2013** Best student in Mathematics and Economics at Njombe secondary school.



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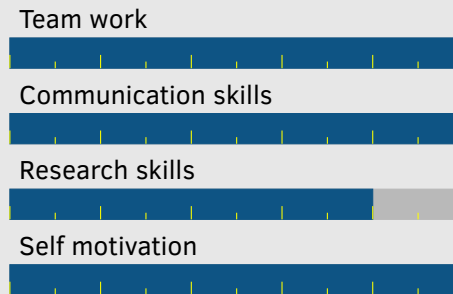
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Workshops, Presentations and Conferences

2022	Facilitated Training on Quantitative Research with SPSS and R
2020	Facilitated Training on Quantitative Research with SPSS
2020	Business and Economic Growth for Sustainable Development
2019	International Modelling week (At University of Rwanda)
2018	Partial differential Equations and Calculus of Variations
2018	Training on Statistical analysis using SPSS, STATA and R
2017	Training on Geographical Information systems (GIS) using ArcGIS and QGIS
2016	Capacity Building Training on UNESCO Operational Strategy
2015	Agricultural Development and production in Tanzania

Scientific Computing

Operating Systems:	Windows, Linux(Ubuntu)
Software and Tools:	SPSS, STATA, ArcGIS, QGIS, Mathematica, Latex, Mysql GLPK and Microsoft office.
Programming languages:	Python, R, MATLAB, Octave, C++, C and PHP.

Hobbies and interests

- Exposure and Networking.
- Watching football.
- Doing physical body exercise.

Referees

- DR. NKUBA NYERERE
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Email: nyereren@nm-aist.ac.tz
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