

CURRICULUM VITAE

PERSONAL INFORMATION

Full name : Adeline Peter Mtunya
Date of Birth : 4th October, 1981
Sex : Male
Nationality : Tanzanian
Marital status : Married
Languages (Written & Spoken) : Swahili & English
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EDUCATION BACKGROUND

2014-2017
Nelson Mandela African Institution of Science and Technology
PhD in Mathematical and Computer Science and Engineering
- Research done in the area of Financial mathematics where stochastic modelling and control were applied.

2008-2010
University of Dar es Salaam
Master of Science in Mathematical Modelling
- Research done in the area of Financial mathematics at Lappeenranta University of Technology (LUT), Finland.

2003-2007
University of Dar es Salaam
Bachelor of Science with Education (Hons.)
- Computer Science and Mathematics major

2000-2002
Mazengo Secondary School
(Now St. John University)
Advanced Certificate of Secondary Education
- Physics, Geography and Mathematics (PGM)

1996-1999
Mondo Secondary School
Certificate of Secondary Education

1989-1995
Sori Primary School
Certificate of Primary School Education

AWARDS AND HONOURS

- 2009** Finland's North-South-South Higher Education Programme/Centre for International Mobility (CIMO) under the frame of East Africa Technomathematics project, Academic exchange scholarship in Finland
- 2013** Tanzania Commission for Science and Technology (COSTECH), Sponsorship to undertake PhD studies
- 2017** The Nelson Mandela African Institution of Science and Technology (NM-AIST), School of Computational and Communication Science and Engineering (COCSE), One of the three best PhD research nominated for exhibition for graduating class of 2017

COMPETENCIES AND OTHER SKILLS

- Skilled in using computer office packages: Word processing, Spread sheets, PowerPoint presentations, Publication design, Command prompt and many tools and accessories
- Knowledge in Object Oriented Programming [C++ and Java] and procedural programming [C and Pascal]
- Knowledge in Computer related mathematical skills e.g. Discrete maths, Statistics and Optimization, Financial modelling, Simulation, MATLAB and LaTeX commands
- Ability to design and develop Software systems and web pages using PHP/HTML
- Techniques in Database designing and Administration (mySQL)

WORKING EXPERIENCE

Duration & Position	Institution	Duties & Responsibilities
July, 2007 – Nov. 2007 Teacher	Almuntazir Islamic Seminary	- Teaching Information Technology (IT)
Nov. 2007 – Sept. 2010 Tutorial Assistant	Mkwawa University College of Education (College of the University of Dar es Salaam)	- Conducting tutorial classes in mathematics courses

Oct. 2010 – Dec. 2017 Assistant Lecturer	Mkwawa University College of Education <i>(College of the University of Dar es Salaam)</i>	<ul style="list-style-type: none"> - Teaching undergraduate mathematics courses - Assisting senior academic staff in teaching postgraduate courses and researching in mathematics
Dec. 2017 up to date Lecturer	Mkwawa University College of Education <i>(College of the University of Dar es Salaam)</i>	<ul style="list-style-type: none"> - Teaching undergraduate and postgraduate mathematics courses - Researching in fields related to mathematics - Providing advices to the management as it may be necessary

ADMINISTRATIVE AND LEADERSHIP EXPERIENCE

March 2011 to October 2013	Head of Section of Mathematics Mkwawa University College of Education <i>(College of the University of Dar es Salaam)</i>
March 2011 to October 2013	Examination officer (Faculty of Science) Mkwawa University College of Education <i>(College of the University of Dar es Salaam)</i>
March 2012 to October 2013	Coordinator of the Unit of Mathematics and Informatics Mkwawa University College of Education <i>(College of the University of Dar es Salaam)</i>
April 2014 to May 2015	Minister for Academics, Research and Innovation The Nelson Mandela African Institution of Science and Technology Students' Organization (NM-AIST-SO)
June 2015 to May 2016	President The Nelson Mandela African Institution of Science and Technology Students Organization (NM-AIST-SO)
April 2014 to May 2016	University Senate member University Senate of Nelson Mandela African Institution of Science and Technology <i>(Representing the students' organization)</i>
June 2015 to May 2016	University Council member The Council of Nelson Mandela African Institution of Science and Technology <i>(Representing the students' organization)</i>

PROJECT AND RESEARCH TITLES

1. *Factorization and Applications in Number Theory*
(Undergraduate final year project in mathematics)
2. *REDET Files Management System*
(Undergraduate final year project in computer science)
3. *Modelling Electricity Spot Price Time Series Using Coloured Noise Forces*
(Master of Science dissertation)
4. *Stochastic Models and Control for Optimizing Dividend and Investment Policies for Firms in Developing Economies*
(Ph. D dissertation)

PUBLICATIONS

1. **Mtunya, A. P.**, Ngare, P., & Nkansah-Gyekye, Y. (2016). On Steady Dividend Payment under Functional Mean Reversion Speed. *Journal of Mathematical Finance*, 6(03), 368.
2. **Mtunya, A. P.**, Ngare, P., & Nkansah-Gyekye, Y. (2017). Optimal Investment Strategy under Stochastic Interest Rates. *Journal of Mathematical Finance*, 7(02), 319.
3. **Mtunya, A. P.**, Ngare, P., & Nkansah-Gyekye, Y. (2017). Steady dividend payment and investment financing strategy: a functional mean reversion speed approach. *Journal of Mathematical and Computational Science*, 7(4), 677-698.
4. **Mtunya, A. P.**, Ngare, P., & Nkansah-Gyekye, Y. (2018). Optimal Investment Strategy with Debt Financing under Stochastic Interest Rates. *Mathematical Finance Letters*, 2018(3)

REFEREES

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3. **Dr. Philip Ngare,**
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4. **Prof. Lughano J. M. Kusiluka,**
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5. **Dr. Grayson. K. Kakiko,**
Lecturer, Department of Mathematics, University of Dar es Salaam,
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DECLARATION

I declare that the information given above is true to the best of my knowledge and experience.

Adeline Peter Mtunya

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