

CURRICULUM VITAE

1. **Name and Surname** : Lawrence Adedayo FARINOLA
2. **Date of Birth** : 17.05.1981
3. **Place of Birth** : Ibadan, Nigeria
4. **Academic Title** : Dr.
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6. **Address** : GAUResidence, Ozgur Sokak Akarçak, via Mersin 10, North Cyprus, Turkey
7. **Mobile Telephone** : +905338591104
8. **Language** : English (Fluently)
9. **Marital Status** : Married
10. **Number of Child** : Three
11. **E-mail** : lawrencemath@yahoo.com; lawrencefarinola@gau.edu.tr

12. Education:

| Degree | Department/Program | Institution | Year |
|--------|--|--|-----------|
| Bs.c | Mathematics Education | University of Uyo, Akwa Ibom State, Nigeria. | 2002-2007 |
| Ms.c | Informatics – Major in Applied Mathematics and Computational Science | Universita Della Svizzera Italiana (USI), Lugano, Switzerland. | 2010-2014 |
| Ph.D. | Mathematics | Eastern Mediterranean University, Famagusta, North Cyprus. | 2014-2019 |

13. Title of Projects/Thesis and Supervisor(s):

| Degrees | Topics | Supervisor(s) | Year |
|------------------------|--|--|-----------|
| Bachelors Project | A comparison of some Numerical Methods for the solution of differential equations | Mr. Animashun Debo (M.Phil) | 2007 |
| Master's Thesis | Investigating the Biomechanics of the human lumber spine using Finite Element methods. | Prof. Dr. Rolf Krause (Ph.D.) | 2013-2014 |
| Doctorate Dissertation | Grid Approximation of Derivatives of the Solution of Heat Conduction Equation | Assoc. Prof. Dr. Suzan Cival Buranay (Ph.D.) | 2016-2019 |

14. Project/Thesis Administered:

- 14.1 **Bachelor's Project:**
- 14.2 **Master's Thesis:**
- 14.3 **Ph.D. Thesis:**

15. Publications:

15.1 Books:

Farinola L.A. Adeyode S.O. & Nnodim K.C. Interactive P & T Computer Study for Senior Secondary Schools and Technical Colleges. (In progress).

Farinola L.A. (2008). "ALL – IN – 1 Basic Qualitative keys in Mathematics" for Pre-basic, basic and post- basic schools. De Benjaminus Publishers, ISBN: 978-2880-94-9.

15.2 International Articles

Buranay C. S., Farinola L.A. (2018), Implicit Methods for the First Derivative of the Solution to Heat Equation. *Advances in Difference Equation* 2018:430 <https://doi.org/10.1186/s13662-018-1887-1>

Buranay C. S., Farinola L.A., On the Implicit Methods for the Approximation of the Derivatives of the Solution of First Type Boundary Value Problem for Heat Equation. *Computer and Mathematics with Application (With Editor)*.

Buranay C. S., Farinola L.A., Six Point Implicit Methods for the Derivatives of the Solution of First Type Boundary Value Problem for One Dimensional Heat Equation. *Functional Analysis in Interdisciplinary Applications. Springer Book Series. (Under Review)*.

15.3 International Conference Abstracts

Buranay C. S., Farinola L. A.: Four Point Implicit Methods for the Second Derivatives of the Solution of First Type Boundary Value Problem for One Dimensional Heat Equation, Conference Program and Book of Abstracts for 3rd International Conference of Computational Mathematics and Engineering Sciences (CMES2018), Girne, Cyprus. 04-06 May, 2018. p212 <https://www.cmescongress.org/ABSTRACT-BOOK-SON-07-05-2018.pdf>

Buranay C. S., Farinola L. A.: Six Point Implicit Methods for the Pure Second Derivatives of the Solution of First Type Boundary Value Problem for One Dimensional Heat Equation, Conference Program and Book of Abstracts for Fourth International Conference on Analysis and Applied Mathematics (ICAAM2018), Lefkosa, Cyprus. 6-9 September, 2018. http://www.icaam-online.org/site_media/media/uploads/program_icaam_2018_last_04-09-18.pdf

15.4 International Extended Abstracts

Buranay C. S., Farinola L. A.: Four Point Implicit Methods for the Second Derivatives of the Solution of First Type Boundary Value Problem for One Dimensional Heat Equation, ITM Web of Conferences, (2018); <https://doi.org/10.1051/itmconf/20182201011>

Buranay C. S., Farinola L. A.: Six Point Implicit Methods for the Pure Second Derivatives of the Solution of First Type Boundary Value Problem for One Dimensional Heat Equation, American Institute of Physics (AIP) Conference Proceedings. *AIP Conference Proceedings* **1997**, 020077 (2018); <https://doi.org/10.1063/1.5049071>

15.5 Magazines

Farinola L.A. (2006). The great Mathematician and some of their contribution. Departmental yearly Magazine, University of Uyo, Ila-Orungun Center, pp 5-6.

Farinola L.A. (2005). Mathematics the bedrock for all subjects. Departmental yearly Magazine, University of Uyo, Ila-Orungun Center, pp 13-14.

16. Current Research Project:

14.1 The Numerical Solution of Fractional Heat Equation.

17. Administrative Duties:

15.1 Mathematics Department Seminar Committee Research Assistant (2015-2019)

15.2 Numerical Analysis Course Laboratory Coordinator (September, 2018- June 2019)

15.3 Student Advisory (February 2020 till date)

18. Memberships in Scientific and Professional Organizations

16.1 Certify Teacher, Teacher Registration council of Nigeria. Reg. No. OY/S/13462.

19. Awards:

17.1 Full Merit Award Scholarship during doctorate degree, Eastern Mediterranean University (EMU) (2014 -2019)

17.2 Master Thesis Nomination for Swiss Engineering Ticino Prize Award (February, 2015).

20. Working Experience

| Title | Institution | Subject/Courses (Number of Students) | Year |
|------------------|--|--|--------------------------|
| Instructor (Dr.) | Faculty of Engineering, Department of Computer Engineering, Girne America University, North Cyprus | <p style="text-align: center;">2020-2021/Fall</p> <ol style="list-style-type: none"> 1. Introduction to Computer (99) 2. Calculus I (106) 3. Linear Algebra (52) 4. Differential Equations (103) 5. Probability Theory (213) <p style="text-align: center;">2020-2020/Summer</p> <ol style="list-style-type: none"> 1. Introduction to Computer (02) 2. Calculus I (05) 3. Linear Algebra (06) 4. Probability Theory (28) <p style="text-align: center;">2020-2020/Spring</p> <ol style="list-style-type: none"> 1. Calculus I (98) 2. Calculus II (135) 3. Linear Algebra (58) <p style="text-align: center;">2019-2020/Fall</p> <ol style="list-style-type: none"> 6. Calculus I (198) 7. Calculus II (124) 8. Linear Algebra (77) 9. Introduction to Computer (164) | September 2019 Till Date |

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|---------------------------|--|---|------------------------------------|
| <p>Research Assistant</p> | <p>Department of Mathematics, Eastern Mediterranean University</p> | <p style="text-align: center;">2014-15/Spring</p> <ol style="list-style-type: none"> 1. Calculus I (134) 2. Calculus II (42) 3. Discrete Mathematics for Information Technologist (52) <p style="text-align: center;">2015-16/Fall</p> <ol style="list-style-type: none"> 1. Calculus I (155) 2. Calculus II (77) 3. Numerical Analysis for Engineers (58) <p style="text-align: center;">2015-16/Spring</p> <ol style="list-style-type: none"> 1. Calculus I (69) 2. Basic Mathematics for Pharmacist (53) 3. Mathematical Methods for Engineers (27) 4. Numerical Analysis for Engineers (97) <p style="text-align: center;">2015-16/Summer</p> <ol style="list-style-type: none"> 1. Calculus I (53) 2. Numerical Analysis for Engineers (37) <p style="text-align: center;">2016-17/Fall</p> <ol style="list-style-type: none"> 1. Calculus I (65) 2. Calculus II (66) 3. Numerical Analysis for Engineers (101) <p style="text-align: center;">2016-17/Spring</p> <ol style="list-style-type: none"> 1. Calculus II (75) 2. Mathematical Methods for Engineers (57) 3. Numerical Analysis for Engineers (101) <p style="text-align: center;">2016-17/Summer</p> <ol style="list-style-type: none"> 1. Differential Equations (20) 2. Biostatistics (37) 3. Linear Algebra and Ordinary Differential Equations (69) <p style="text-align: center;">2017-18/Fall</p> <ol style="list-style-type: none"> 1. Linear Algebra and Ordinary Differential Equations (60) 2. Mathematical Methods for Engineers (55) | <p>February 2015 – August 2019</p> |
|---------------------------|--|---|------------------------------------|

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|--------------------|---|--|-------------------------------|
| | | <p>3. Numerical Analysis for Engineers (25) 2017-18/Spring</p> <ol style="list-style-type: none"> 1. Calculus II (66) 2. Complex Analysis (11) 3. Linear Algebra and Ordinary Differential Equations (42) 4. Mathematical Methods for Engineers (33) 5. Numerical Analysis for Engineers (41) <p>2017-18/Summer</p> <ol style="list-style-type: none"> 1. Numerical Analysis for Engineers (54) 2. Linear Algebra and Ordinary Differential Equations (65) <p>2018-19/Fall</p> <ol style="list-style-type: none"> 1. Calculus II (54) 2. Linear Algebra and Ordinary Differential Equations (57) 3. Numerical Analysis for Engineers (122) <p>2018-19/Spring</p> <ol style="list-style-type: none"> 1. Calculus II (91) 3. Linear Algebra and Ordinary Differential Equations (38) 4. Mathematical Methods for Engineers (46) 5. Numerical Analysis for Engineers (44) <p>2018-19/Summer</p> <ol style="list-style-type: none"> 1. Differential Equations (27) 2. Mathematics Methods for Engineers (09) | |
| Tutor | Africa Student Association, Lugano, Switzerland | <ol style="list-style-type: none"> 1. Modeling, Simulation, and Optimization (MSO) and 2. MSO Laboratory | March – September 2014 |
| Class Teacher | The Concord School, Olubadan Avenue, Ring road, Ibadan, Oyo State, Nigeria. | <ol style="list-style-type: none"> 1. Middle/High School Mathematics 2. International Baccalaureate (IB) Mathematics | August – September 2010 |
| Part-Time Lecturer | Owerri, Aboh Mbaise Centre, Imo State, Nigeria | <ol style="list-style-type: none"> 1. Basic Mathematics, 2. Test and Measurement, and 3. Educational Technology | October 2008 – August 2010 |
| Part-Time Lecturer | African Institute of Science and Technology (AIST), Aboh Mbaise, Imo State, Nigeria | <ol style="list-style-type: none"> 1. Linear Algebra, 2. Numerical Analysis and 3. Statistical Data Analysis | September 2008 – August 2010: |
| Part-Time Lecturer | Abia State College of Education, Arochukwu, Aboh Mbaise Centre, Imo State, Nigeria | <ol style="list-style-type: none"> 1. Complex number, 2. Differential calculus, 3. Integral calculus and 4. Introduction to Computer | August 2008 – August 2010: |

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|------------------------------|--|---|--------------------------------|
| Head of Mathematics Teachers | Christ the Saviour Secondary School, Umuhu Okwuato, Aboh Mbaise, Imo State, Nigeria. | 1. General Mathematics and 2. Additional Mathematics | January 2006 – August 2010 |
| Visiting Teacher | St. Leo Comprehensive Secondary School, Ezinihitte-Mbaise, Imo State, Nigeria. | 1. General Mathematics and 2. Additional Mathematics | September 2007 – December 2007 |

21. Technical Skills/Research Interests

General skills in mathematics, statistics, management science, Computing and educational technology.

Specific interest in Numerical Analysis of Partial Differential Equations; modeling and methods (finite difference, finite element, finite volume and spectral method); Numerical Fractional Differential Equation with particular applications to Engineering, Biology and Financial.

Programming languages: MATLAB, R, basic in Java, C++ and FORTRAN.

Software: Anylogic, Vensim, Wake, Samiam, Amira, Cubit, SQL, Microsoft Project, SPSS, InDesign, Articulate, captivate, and Prezi.

22. Selected Projects

February – June 2013: Student Project, Evaluating realistic tsunami simulations with SWE model on GPU-enabled clusters, Institute of Computational Science, Universita Della Svizzera Italiana, Lugano, Switzerland.

September – November 2011: Student Project, Evaluation of the capability of Bayesian decision network to model the student's learning rate, Universita Della Svizzera Italiana, Lugano, Switzerland.

February – June 2011: Student Project, Analysis of DAX data – The Comparison of price and the log returns error, Universita Della Svizzera Italiana, Lugano, Switzerland.

March – June 2011: Student Project, The Numerical Methods in Fluid Dynamics for the simulation of leaf in the water, Universita Della Svizzera Italiana, Lugano, Switzerland.

23. References

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