

## Tiamiyu, Abd'gafar Tunde

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EDUCATION	<b>The Chinese University of Hong Kong</b> , Hong Kong Department of Mathematics, MPhil - Phd, Mathematics	August 2021 - July 2025
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**Federal University of Technology, Minna**, Nigeria  
Bachelor of Technology, Mathematics, November 2017  
**4.62 of 5.00** - *First Class (Honours) Division*

- Candidacy: *Research Problems in Numerical Analysis*

Secondary School Certificate, June 2012  
West African Secondary School Certificate Examination (WASSCE)

- Institution: *God's Mercy Comprehensive College, Oyo, Nigeria*

Primary School Leaving Certificate, August 2006

- Institution: *Winners Group of Schools, Oyo, Nigeria*

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| JOURNAL PUBLICATIONS | <p>[1] <b>Tiamiyu A.T.</b>, Falade I.K. and Adullahi S.A. Computational assessment of external force acting on beam elastic foundation. <i>Pamukkale University Journal of Engineering Sciences</i>, Vol 28, Issue 3, 2022.</p> <p>[2] Falade K.I., <b>Tiamiyu A.T.</b>, Edogbanya H.O, Ibrahim M.B, and Abubakar A.S. On comparison of algorithms techniques for numerical solutions of higher order differential equations. <i>African Journal of Mathematics and Statistics Studies</i>, Vol 5, Issue 2, 2022</p> <p>[3] Falade K.I., and <b>Tiamiyu A.T.</b> A newly formulated algorithm for the numerical solution of nonlinear Klein Gordon Equation. <i>Journal of the Nigerian Mathematical Society</i>, Vol 41, Issue 1, pp. 13-25, 2022.</p> <p>[4] Falade K.I, Baoku I.G. and <b>Tiamiyu A.T.</b> Numerical Assessment of Symmetric and Non-Symmetric Kernel Functions on Second Order Non-Homogenous Voltera Integro-differential Equations. <i>Sakarya University Journal of Science</i>. 25(6), 1263-1274, 2021</p> <p>[5] <b>Tiamiyu Abd'gafar Tunde</b>, Falade Kazeem Iyanda, Rauf Quadri Opeyemi and Akande Sikirulai Abolaji. A Numerical Technique for Direct Solution of Special Fourth Order Ordinary Differential Equation Via Hybrid Linear Multistep Method. <i>Cankaya University Journal of Science and Engineering</i>, Vol. 18, Issue 1, Pp. 47 - 60, May 1, 2021.</p> |
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- [6] Timilehin G. Shaba, **Abd'gafar T. Tihamiyu**, Ismaila O. Ibrahim and Abdullahi A. Ibrahim. Subclass of  $p$ -valent Function with Negative Coefficients Applying Generalized Al-Oboudi Differential Operator. *Earthline Journal of Mathematical Sciences*, Vol. 6, No. 1, pp. 87 - 103, May 2021.
- [7] Falade Kazeem Iyanda, **Tihamiyu Abd'gafar Tunde** and Umar Isa. Numerical Comparison of Runge-Kutta (RK5) and New Iterative Method (NIM) for Solving Metastatic Cancer Model. *Malaysia Journal of Computing*, Vol 6, No. 1, pp. 758-771, Mar. 2021. ISSN 2600-8238 [Available online here](#)
- [8] K. I. Falade, I. G. Baoku, **A.T. Tihamiyu**, I. Isyaku. On Numerical Computational Solution of Seventh Order Boundary Value Problems. *Journal of the Nigerian Mathematical Society*, Vol 39, Issue 2, pp. 255 - 268, 2020.
- [9] Falade Kazeem Iyanda, **Tihamiyu Abd'gafar Tunde**, Tolufase Emmanuel. A Study of Thin Plate Vibration Using Homotopy Perturbation Algorithm. *International Journal of Engineering and Innovative Research* 2:2 (2020) 92 - 101, [Available online here](#)
- [10] Falade Kazeem Iyanda, **Tihamiyu Abd'gafar Tunde**. Computational Algorithm for the Numerical Solution of Systems of Volterra Integro-Differential Equations. *Academic Journal of Applied Mathematical Sciences*, [Available online here](#)
- [11] Falade K. I, **Tihamiyu A.T.** Numerical Solution of Partial Differential Equations with Fractional Variable Coefficients Using New Iterative Method (NIM). *International Journal of Mathematical Sciences and Computing (IJMSC)*, Vol.6, No.3, pp.12-21, 2020  
doi:10.5815/ijmsc.2020.03.02
- [12] Falade K.I, **Tihamiyu A.T** and Muhammad M.Y. (2018), On Numerical Investigation and Assessment of Variable Coefficient  $C(x)$  on Airy Differential Equation, *Journal of the Nigerian Association of Mathematical Physics* Volume 48 (Sept. & Nov., 2018 Issue), pp35 - 46  
[published paper](#)
- CONFERENCE PUBLICATION [13] **Tihamiyu A.T.**, Cole A.T. and Akande S.A. Hybrid Block Method for Direct Solution of Non-Linear Second Order Initial Value Problems in Ordinary Differential Equations. *International Conference of Contemporary Developments in Mathematical Sciences (ICCDMS)*, 2021.
- [14] Cole A.T. and **Abd'gafar T.T.** Hybrid block method for direct solution of general fourth order ordinary differential equations using power series function. *Book of proceedings: 6th International Conference of Mathematical Analysis and Optimization Theory and Applications. (ICAPTA 2019), 25th-29th March, 2019, National Mathematical Centre, Abuja* [published conference paper](#) PP 500 – 513.

ACCEPTED FOR PUBLICATION [15] **Tiamiyu A.T.**, Cole A.T. and Audu K.J. A backward differentiation formula for third-order initial or boundary values problems using collocation method. *Iranian Journal of Optimization*, Vol. 13, Issue 2, 2021.

PRIZE/ **Awarded**

- SCHOLARSHIP [1] Hong Kong PhD Fellowship Scheme 2021/22, of the Research Grants Council (RGC) to pursue Doctor of Philosophy (PhD) Program in Mathematics at the Chinese University of Hong Kong.
- [2] CUHK Vice-Chancellor's Scholarship Award, Department of Mathematics, Graduate School, The Chinese University of Hong Kong.
- [3] Postgraduate Studentship Award at the Department of Mathematics, Graduate School, The Chinese University of Hong Kong.
- [4] 2021 Pan African University (PAU) Scholarship at PAU Institute for Basic Sciences, Technology and Innovation; MSc. Mathematics (Computational Option). (*Declined*)
- [5] Sir Peter Ojongbede's prize award for the best graduating student in the department of Mathematics for the 2016/2017 Academic Session (**FUTMINNA**, 2017)
- [6] Medal award at the 2017 National Mathematics Competition for University Students (NAMCUS), awarded by the National Mathematical Centre, Abuja Nigeria
- [7] Beneficiary of MTN Foundation - Science and Technology Scholarship Scheme, Phase 4 for Undergraduate Students in Nigerian Universities

WORKING EXPERIENCE Kano University of Science and Technology (KUST), **Staff Secondary School**, Wudil, Kano State, Nigeria

*Mathematics Tutor*

**May 2019 to December 2020**

**Kano University of Science and Technology (KUST)**, Wudil, Kano State, Nigeria

*Research Assistant*

**June 2018 to April 2019**

**National Youth Service Corp (NYSC)** member

**The West African Examinations Council**, P.M.B. 1022 Yaba Lagos

*Mathematics II Examiner*

**May 2018**

**Easy Link Computer Institute**, Oyo, Oyo State

*Director*

**November 2017 to April 2018**

**Idea Konsult Limited**, Oyo, Oyo State

*Intern*

**May 2016 to November 2016**

VOLUNTARY WORKS	<b>Community Development</b>
	[1] <b>Mathematics Tutor</b> at Government Technical College, Wudil LGA Kano State 2018 - 2019
	[2] <b>Teacher:</b> WAEC and JAMB coaching for High School students at God's Mercy Comprehensive College, Oyo 2018
	[3] <b>President:</b> Environmental Protection and Sanitation, Community De- velopment Service at Wudil LGA, Kano State 2018 - 2019
SKILLS	<ul style="list-style-type: none"> <li>• Teamwork and Communication Skills: I possess good written and verbal communication skills</li> <li>• Ability to carry out scientific research.</li> <li>• Leadership Skills: demonstrated as the Class Captain, School Senior Prefect Boy, Tutorial Coordinators, President of National Youth Service Corps (NYSC) Community Development Service (CDS) group, Chairman/President of Best Grade Aid Initiatives (BGAI) and Educational Counsellor.</li> <li>• Problem Solving: I have the abilities to solve critical and complex problems with application of my Mathematical skills.</li> </ul>
COMPUTER SKILLS	Intermediate Computer Programming
	<ul style="list-style-type: none"> <li>• Python, Java, and C++</li> </ul>
	Desktop Editing
	<ul style="list-style-type: none"> <li>• Microsoft Office Suite, Latex, CorelDraw Suite, Adobe Illustrator</li> </ul>
HOBBIES	Numerical Analysis
	<ul style="list-style-type: none"> <li>• Maple</li> </ul>
HOBBIES	<ul style="list-style-type: none"> <li>• Learning, Teaching, and Research</li> </ul>
REFEREES	<b>Available on request.</b>