

Tiamiyu, Abd'gafar Tunde

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| EDUCATION | The Chinese University of Hong Kong , Hong Kong Department of Mathematics, MPhil - Phd, Mathematics | August 2021 - July 2025 |
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Federal University of Technology, Minna, Nigeria

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| Bachelor of Technology, Mathematics, | November 2017 |
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4.62 of 5.00 - First Class (Honours) Division

- Candidacy: *Research Problems in Numerical Analysis*

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

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

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| Primary School Leaving Certificate, | August 2006 |
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- Institution: *Winners Group of Schools, Oyo, Nigeria*

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| JOURNAL PUBLICATIONS | <p>[1] Falade K.I., and Tiamiyu A.T. 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>[2] Falade K.I, Baoku I.G. and Tiamiyu A.T. Numerical Assessment of Symmetric and Non-Symmetric Kernel Functions on Second Order Non-Homogenous Volterra Integro-differential Equations. <i>Sakarya University Journal of Science</i>. 25(6), 1263-1274, 2021</p> <p>[3] Tiamiyu Abd'gafar Tunde, 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> <p>[4] Timilehin G. Shaba, Abd'gafar T. Tiamiyu, Ismaila O. Ibrahim and Abdullahi A. Ibrahim. Subclass of p-valent Function with Negative Coefficients Applying Generalized Al-Oboudi Differential Operator. <i>Earthline Journal of Mathematical Sciences</i>, Vol. 6, No. 1, pp. 87 - 103, May 2021.</p> <p>[5] Falade Kazeem Iyanda, Tiamiyu Abd'gafar Tunde and Umar Isa. Numerical Comparison of Runge-Kutta (RK5) and New Iterative Method (NIM) for Solving Metastatic Cancer Model. <i>Malaysia Journal of Computing</i>, Vol 6, No. 1, pp. 758-771, Mar. 2021. ISSN 2600-8238 Available online here</p> |
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- [6] 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.
- [7] 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](#)
- [8] 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](#)
- [9] 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](#)
- [10] 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 [11] **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.
- [12] 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 [13] **Tihamiyu A.T.**, Falade I.K. and Adullahi S.A. Computational assessment of external force acting on beam elastic foundation. *Pamukkale University Journal of Engineering Sciences*, Vol 28, Issue 3, 2022.
- [14] **Tihamiyu 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.

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| PRIZE/ SCHOLARSHIP | Awarded |
| | [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). (<i>Declined</i>) |
| | [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 |
| WORKING EXPERIENCE | [7] Beneficiary of MTN Foundation - Science and Technology Scholarship Scheme, Phase 4 for Undergraduate Students in Nigerian Universities |
| | Kano University of Science and Technology (KUST), Staff Secondary School , Wudil, Kano State, Nigeria |
| | <i>Mathematics Tutor</i> May 2019 to December 2020 |
| | Kano University of Science and Technology (KUST) , Wudil, Kano State, Nigeria |
| | <i>Research Assistant</i> June 2018 to April 2019 |
| | National Youth Service Corp (NYSC) member |
| | The West African Examinations Council , P.M.B. 1022 Yaba Lagos |
| | <i>Mathematics II Examiner</i> May 2018 |
| | Easy Link Computer Institute , Oyo, Oyo State |
| | <i>Director</i> November 2017 to April 2018 |
| | Idea Konsult Limited , Oyo, Oyo State |
| | <i>Intern</i> May 2016 to November 2016 |

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| VOLUNTARY WORKS | Community Development [1] Mathematics Tutor at Government Technical College, Wudil LGA Kano State 2018 - 2019 [2] Teacher: WAEC and JAMB coaching for High School students at God's Mercy Comprehensive College, Oyo 2018 [3] President: Environmental Protection and Sanitation, Community De- velopment Service at Wudil LGA, Kano State 2018 - 2019 |
| SKILLS | <ul style="list-style-type: none"> • Teamwork and Communication Skills: I possess good written and verbal communication skills • Ability to carry out scientific research. • 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. • Problem Solving: I have the abilities to solve critical and complex problems with application of my Mathematical skills. |
| COMPUTER SKILLS | Intermediate Computer Programming <ul style="list-style-type: none"> • Python, Java, and C++ Desktop Editing <ul style="list-style-type: none"> • Microsoft Office Suite, Latex, CorelDraw Suite, Adobe Illustrator Numerical Analysis <ul style="list-style-type: none"> • Maple |
| HOBBIES | <ul style="list-style-type: none"> • Learning, Teaching, and Research |
| REFEREES | Available on request. |