



SECTION A PERSONAL DATA

1. NAME: ALAO GRACE OLUWAFUNKE (NEE AKINLABI)
2. DATE OF BIRTH: SEPTEMBER 12, 1983
3. TOWN: IBADAN
4. LOCAL GOVT. AREA: IBADAN SOUTH EAST
5. STATE OF ORIGIN: OYO
6. NATIONALITY: NIGERIAN
7. MARITAL STATUS: MARRIED
8. RELIGION: CHRISTIANITY
9. CONTACT ADDRESS: DEPARTMENT OF MATHEMATICS,
COVENANT UNIVERSITY, OTA
OGUN STATE, NIGERIA.
10. TELEPHONE NUMBER: +2347034644611
11. E-MAIL ADDRESS: grace.akinlabi@covenantuniversity.edu.ng
graceakinlabi@gmail.com
12. PRESENT POSITION: ASSISTANT LECTURER

SECTION B EDUCATIONAL HISTORY

1. INSTITUTIONS ATTENDED WITH DATES
 - (a) University of Ilorin, Ilorin 2012 - 2014
 - (b) University of Ilorin, Ilorin 2007 – 2011
 - (c) The Polytechnic, Ibadan 2003 – 2006
 - (d) Angus Memorial High School, Lagos 1996 – 2001
 - (e) Bashua Military Primary School, Lagos 1990 - 1996
2. ACADEMIC QUALIFICATION
 - (a) Master of Science (Mathematics) 2014

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| (b) Bachelor of Science (Mathematics) | 2011 |
| (c) Ordinary National Diploma (Computer Science) | 2006 |
| (d) Senior Secondary School Certificate | 2001 |

3. TEACHING EXPERIENCE

(a) Academic Rank Held

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|-------|---|------------------|
| (i) | Teaching Assistant (NYSC) | 2011 – 2012 |
| | Department of Mathematical Sciences | |
| | Federal University of Technology, Akure | |
| (ii) | Graduate Assistant | 2013 |
| | Department of Mathematics | |
| | University of Ilorin (Sandwich Programme) | |
| (iii) | Assistance Lecturer | 2014 – Till Date |
| | Department of Mathematics | |
| | Covenant University | |

(b) Academic Position Held

- **Member:** Student Advisory Committee, College of Science, Covenant University
2015/2016 Session – Till Date
- **Member:** Welfare Committee, Department of Mathematics, Covenant University
2015/2016 Session – Till Date
- **Member:** Curriculum Committee, Department of Mathematics, Covenant University
2014/2015 Session
- **Member:** Excursion Committee, Department of Mathematics, Covenant University
2015/2016 Session
- **Member:** NAMCUS Committee, Department of Mathematics, Covenant University
2015/2016 Session – Till Date
- **100 Level Adviser:** Department of Mathematics, Covenant University
2015/2016 Session

4. COURSE TAUGHT

MAT111 (Mathematics I - Algebra)

MAT112 (Mathematics II – Trigonometry and Geometry)

MAT121 (Mathematics V - Calculus)

MAT221 (Real Analysis II)

MAT222 (Mathematical Methods I)

MAT224 (Introduction to Numerical Methods)

MAT225 (Abstract Algebra)

CSC241 (Linear Algebra II)

MAT311 (Groups and Rings)

MAT313 (Complex Analysis I)

MAT317 (Mathematical Methods III)

MAT418 (Complex Analysis II)

5. SCHOLARSHIP, FELLOWSHIPS AND PRIZES

Silver Medalist, National Mathematics Competition for University Students (NAMCUS), 2011

6. PUBLICATION AND JOURNALS (INTERNATIONAL/LOCAL)

(a) A. A. Opanuga, S. O. Edeki, H. I. Okagbue, **G. O. Akinlabi**, A. S. Osheku, and B Ajayi.

(2014). On Numerical Solutions of Systems of Ordinary Differential Equations by Numerical-Analytical Method. *Applied Mathematical Sciences*, 8, 8199-8207.

(b) S. O. Edeki, A. A. Opanuga, H. I. Okagbue, **G. O. Akinlabi**, S. A. Adeosun, A. S. Osheku.

(2015). A Numerical-Computational Technique for solving transformed Cauchy-Euler Equidimensional Equations of Homogeneous Type. *Advanced Studies in Theoretical Physics*, 9, 85-92.

(c) S. O. Edeki, E. A. Owoloko, A. S. Osheku, A. A. Opanuga, H. I. Okagbue, **G. O. Akinlabi**.

(2015). Numerical Solutions of Nonlinear Biochemical Model using a Hybrid Numerical Analytical Technique. *International Journal of Mathematical Analysis*, 9, 403-416.

- (d) A. A. Opanuga, S. O. Edeki, H. I. Okagbue, **G. O. Akinlabi**. (2015). Numerical Solution of Two-Point Boundary Value Problems via Differential Transform. *Global Journal of Pure and Applied Mathematics*, 11, 801-806.
- (e) S. O. Edeki, **G. O. Akinlabi**, S. A. Adeosun. (2017). "Approximate-analytical Solutions of the Generalized Newell-Whitehead-Segel Model by He's Polynomials Method". *Proceedings of the World Congress of Engineering*, London, UK, 2017.
- (f) S. O. Edeki, **G. O. Akinlabi**, M. E. Adeosun. (2016). "Analytical Solutions of the Navier-Stokes Model by He's Polynomials". *Proceedings of the World Congress of Engineering*, London, UK, 2016.
- (g) S. O. Edeki, **G. O. Akinlabi**, A. O. Akeju, "A Handy Approximation Technique for Closed-form and Approximate Solutions of Time-Fractional Heat and Heat-Like Equations with Variable Coefficients", *Proceedings of the World Congress of Engineering*, London, UK, 2016.
- (h) S. O. Edeki, **G. O. Akinlabi**, S. A. Adeosun, "On a Modified Transformation Method for Exact and Approximate Solutions of Linear Schrodinger Equations", *2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE), Conference Proceedings*, September 29 – October 1, 2015, *AIP Conference Proceedings* 1705, Bali, Indonesia.
- (i) S. O. Edeki, H. I. Okagbue, **G. O. Akinlabi**, A. A. Opanuga, A. S. Osheku. (2016). The U-Quadratic Distribution as a Proxy for a Transformed Triangular Distribution (TTD), *Research Journal of Applied Sciences*, 11(5), 221 – 223.
- (j) A. A. Opanuga, S. O. Edeki, H. I. Okagbue, **G. O. Akinlabi**. (2015). A Novel Approach for Solving Quadratic Riccati Differential Equations. *International Journal of Applied Engineering Research*, 10(11), 29121-29126.
- (k) S. O. Edeki, **G. O. Akinlabi**, S. A. Adeosun. (2016), Analytic and Numerical Solutions of Time-Fractional Linear Schrodinger Equation. *Communications in Mathematics and Applications*, 7(1), 1-10.

- (l) **G. O. Akinlabi**, S. O. Edeki, (2016). On Approximate and Closed-form Solution Method for Initial-Value Wave-like Models. *International Journal of Pure and Applied Mathematics*, 107(2), 449-456.
- (m) S. O. Edeki, M. E. Adeosun, E. A. Owoloko, **G. O. Akinlabi**, I. Adinya. (2016), Parameter Estimation of Local Volatility in Currency Option Valuation. *International Review on Modelling and simulations (I.R.E.M.O.S)*, 9(2), 130 – 133.
- (n) **G. O. Akinlabi**, S. O. Edeki. (2017). Perturbation Iteration Transform Method for the Solution of Newell-Whitehead-Segel Model Equations. *Journal of Mathematics and Statistics*, 13(1), 24 – 29.
- (o) **G. O. Akinlabi**, S. O. Edeki. (2017). “The Solution of Initial-value Wave-like Models via Perturbation Iteration Transform Method”, *Proceedings of the International MultiConference of Engineers and Computer Scientists*, Vol II, IMECS 2017, March 15-17, 2017, Hong Kong.
- (p) **G. O. Akinlabi**, S. O. Edeki. (2017). “On the Solution of the Cahn-Hilliard Equation via Perturbation Iteration Transform Method”, *Proceedings of the World Congress on Engineering 2017*, WCE 2017, July 5-7, London, U.K.
- (q) S. O. Edeki, **G. O. Akinlabi**, A. S. Osheku, “On a Modified Iterative Method for the Solutions of Advection Model”, *Proceedings of the world Congress on Engineering 2017 Vol I*, WCE 2017, July 5 – 7, 2017, London, U.K.
- (r) **G. O. Akinlabi**, S. O. Edeki. (2017). “Solving Linear Schrodinger Equation through Perturbation Iteration Transform Method”, *Proceedings of the World Congress on Engineering 2017 Vol. I*, WCE 2017, July 5-7, 2017, London, U.K.
- (s) S. O. Edeki, **G. O. Akinlabi**, “He-Laplace Method for the Solutions of the Navier-Stokes Model”, *Proceedings of the world Congress on Engineering 2017 Vol I*, WCE 2017, July 5 – 7, 2017, London, U.K.
- (t) S. O. Edeki, **G. O. Akinlabi**, K. Onyenike, “Local Fractional Operator for the Solution of Quadratic Riccati Differential Equation with Constant Coefficients”, *Proceedings of the International MultiConference of Engineers and Computer Scientists 2017*, Vol II, IMECS 2017, March 15-17, 2017, Hong Kong.

- (u) K. S. Eke, **G. O. Akinlabi**. (2017). Common Fixed Point Theorems for Four Maps in G-Partial Metric Spaces, *American Journal of Applied Sciences*, 14(3), 372 – 380.

7. CONTRIBUTION TO BOOK (INTERNATIONAL/LOCAL)

- *IAENG Transactions on Engineering Sciences*, Special Issue for the International Association of Engineers Conferences 2016. Total pages: 269, Ref pages: 22 – 32, World Scientific Publishing Co. Pte. Ltd.

8. MANUSCRIPTS SUBMITTED FOR PUBLICATION: N/A

9. UNPUBLISHED CONFERENCE/WORKSHOP PAPER AND PUBLIC LECTURES: N/A

10. CONFERENCES ATTENDED

- (a) World Congress on Engineering 2017, Imperial College London, U.K., 5 – 7, 2017.
- (b) 2nd Covenant University International Conference on African Development Issues (CU-ICADI 2015), Ota, Ogun State Nigeria, May 11 – 13, 2015.
- (c) 2nd Annual International Conference on Mathematical Analysis and Optimization: Theory and Application (ICAPTA 2015) in University of Lagos. March, 2015.
- (d) Inaugural Meeting/Workshop for Nigerian Women in Mathematics (NWM) in University of Ibadan. July, 2014.

11. B.Sc./M.Sc./Ph.D SUPERVISION

- Ndiomu Manuella 2016/2017 Session
- Adanebi Nelson 2014/2015 Session

12. ACADEMIC LINKAGES: N/A

13. MEMBERSHIP OF LEARNING SOCIETIES AND PROFESSIONAL BODIES

Member – International Association of Engineers (IAENG)

EXTRA CURRICULAR ACTIVITIES Reading, Solving Puzzles, Singing