JAMES, Adewale Adeyemi (MNMS, MMAN, MAMS)

(B.Sc., M.Sc., PGDC., PGDE., PGDT., & Ph.D.)

Current Postal Address	**Department f Mathematics,** **American University of Nigeria,** **Lamido Zubairu Way, Yola By-Pass,** **PMB, 2250, Yola,** **Adamawa State, Nigeria.**
E-mail Addresses:	**adewale.james@aun.edu.ng** **adewaleadeyemijames@yahoo.com**
Place of Birth	**Kano, Kano State, Nigeria**
Date of Birth	**25th of February, 1974**
Local Government Area	**Offa Local Government Area**
State of Origin	**Kwara State**
Nationality	**Nigerian**
Current Location	**Yola, Adamawa State, Nigeria**
Marital Status	**Married**
Number of Children	**Two (2), 15yrs and 11yrs Respectively**
GSM Numbers	**08077092831, 09055766011**
Area of Specialization	**Computational Mathematics**
Area of Interest	**Numerical Methods for ODEs.**

Educational Institutions Attended with Dates

1	Modibbo Adama University of Technology Yola.	2011-2014
2	University of Ilorin, Ilorin.	2003-2008
3	Usman Danfodio University Sokoto	2008-2009
4	Ahmadu Bello University, Zaria.	1994-1999
5	Bronnum Litheran Seminary (affiliate of UniJos)	2019-2020
	Kwara State Polytechnic, Ilorin	1992-1993
6	Mount Carmel College, Ilorin	1987-1991
7	St Michael Primary School, Ilorin.	1979-1985

Academic Qualifications Obtained with Dates

1.	Doctor of Philosophy in Mathematics	2015
2.	Post Graduate Diploma in Education	2009
3	Master of Science in Mathematics	2008
4.	Post Graduate Diploma in Computer Science	2006
5.	Bachelor of Science in Mathematics	1999
6.	Post Graduate Diploma in Theology	2020

PRESENT EMPLOYMENT

American University of Nigeria, Yola Feb. 2010 till date
Designation: Assistant Professor of Mathematics (Senior Lecturer)

Teaching Competency:
Numerical Analysis
Real Analysis
Complex Analysis
Abstract Algebra
Differential Equations
Linear Algebra
Mathematical Methods
University Algebra
Basic Statistics
Finite Mathematics
Pre-Calculus
Calculus 1, 11, 111
Computer Software
Research Methodology

PROFESSIONAL AFFILIATIONS
Mathematical Association of Nigeria (MAN)- National
Nigerian Mathematical Society (NMS)-National
Association of Nigeria Teachers (ASSONT)- National
Nigeria Association of Mathematical Physics- National
Institute of Electronics and Electrical Engineers (IEEE) International

PUBLICATIONS:
https://scholar.google.com/citations?user=r87wlBgAAAAJ&hl=en

1. Bolade. O.Moses , **Adewale A. James,** & Mathew. O. Oluwayemi " Hankel Determinant for Certain Subclass of Multivalent Functions Defined by Salagian Differential Operator" Journal of Science Technology, Mathematics and Education (JOSTMED), Sept. 2020

2. **James A.A**, et al. "Proficiency of Second Derivative Schemes for the Numerical Solution of Stiff Systems " , American Journal of Computational Mathematics (AJCM), Scientific Research Publishing, 2018, 8, 96-107 http://www.scirp.org/journal/ajcm

3. **A.A James,** et al. "Solutions to Free Undamped and Free Damped Motion Problems in Mass-Spring Systems" American Journal of Computational and Applied Mathematics 2016, 6(2): 82-91 DOI: 10.5923/j.ajcam.20160602.08 http://article.sapub.org/10.5923.j.ajcam.20160602.08.html

4. **James A.A** and Adesanya A.O. "A note on the construction of constant order predictor corrector algorithm for the solution of $y' = f(x, y)$." British Journal of Mathematics and Computer Science. 4(6): 886-895, 2014. SCIENCEDOMAIN international, www.sciencedomain.org.

5. **A. A. James**, A. O. Adesanya, M. R. Odekunle, D. G. Yakubu "Constant Order Predictor Corrector Method for the Solution of Modeled Problems of First Order IVPs of ODEs" World Academy of Science, Engineering and Technology International Journal of Mathematical, Computational, Physical and Quantum Engineering Vol:7 No:11, 201

6. **A.A. James**, A.O. Adesanya, J. Sunday and D.G. Yakubu. "Half-Step Continuous Block Method for the solutions of Modeled Problems of Ordinary Differential Equations" American Journal of Computational Mathematics. Vol. 3, No. 4, 2013, pp. 261-269. http://www.scirp.org/journal/ajcm

7. **James A.A.***et al* "Starting Order Seven Method Accurately for the Solution of IVP of First Order ODEs. Progress in Applied Mathematics. Vol. 6, No. 1, 2013, pp. [30-39] DOI: 10.3968/j.pam.192525282030601.5231, ISSN 1925-2518, www.cscanada.org.

8. **James A. Adewale,** Adesanya .A. Olayide, Sunday J. Joshua " Continuous Block Method for the solution of second order Initial value problems of ODEs." International Journal of Pure and Applied Mathematics, ISSN 13311-8080, Volume 83, No. 3, March 2013, 405-416. url:http://www.ijpam.ed, doi:http://dx.doi.org/10.12732/ijpam.v83i3.3

9. **A. A James**, A.O Adesanya, J. Sunday, " Uniform Order Continuous Block Hybrid Method for the Solution of First Order Ordinary differential Equations. IOSR Journal of Mathematics, ISSN: 2278-5728. Volume 3, Issue 6 (Sept-Oct. 2012), PP 08-14.

10. **A. A. James,** L.O Lasode, B.O. Moses, "A New Geometric Conditions for Starlikeness and Convexity of Univalent Function". IOSR Journal of

Mathematics, ISSN: 2278-5728. Volume 3, Issue 6 (Sept-Oct. 2012), PP 15-23

11. B.O Moses and **A.A James,** "Coefficient Bounds for Certain Subclass of Multivalent Bassel Functions of Complex Order" Transactions of the Nigeria Association of Mathematical Physics, Volume 4, (July, 2017), pp7-14.

12. J. Sunday, **A.A James**, M.R. Odekunle, A.O Adesanya, " Chebyshvian Basis Function-type Block Method for the Solution of First-Order Initial Value Problems with Oscillating Solutions." j. Math. Comput. Sci. 5(2015), No. 4, 462-472, ISSN: 1927-5307 http://scik.org/index.php/jmcs/article/view/2114

13. J. Sunday, **A.A. James,** A.I. Bakari, " A New Non-Standard Finite Difference Method For Autonomous Differential Equations" Eng. Math. Let. 2015, 2015:19, ISSN: 2049-9337 http://search.proquest.com/openview/be1cbb00abd583a24be4dff082502710/1?pq-origsite=gscholar&cbl=2028865

14. Adesanya, A.O, **James A.A**, Joshua S. " Hybrid Block Predictor-Hybrid Corrector For The Solution Of First-Order Ordinary Differential Equations" Eng. Math Lett. 2014, 2014:13, ISSN:2049-9337, htt://scik.org.

15. J. Sunday, **A. A James,** E. A Ibijola, R.B. Ogunrind, S.N. Ogunyebi " A Computational Approach to Verhulst- Pearl Model" International journal of Scientific Research, Journal of Mathematics, ISSN: 2278-5728. Volume 3, Issue 6(Nov-Dec. 2012), pp 06-13

16. K. M. Fasasi, A. O. Adesanya and **A. A. James** "An Implicit One Step Hybrid Block Method Forsolution Of $Y''' = F(X, Y, Y', Y'')$" American Journal Of Mathematics And Mathematical Sciences 3(1), January-June 2014, ISSN : 2278-0874, pp. 137-148

17. J. Sunday1, M. R. Odekunle, A. O. Adesanya, **A. A. James.** "Extended Block Integrator for First-Order Stiff and Oscillatory Differential Equations" American Journal of Computational and Applied Mathematics 2013, 3(6): 283-290 DOI: 10.5923/j.ajcam.20130306.03

18. Adesanya A.O, Odekunle, M. R and **James, A.A,** "Order seven Continuous hybrid method for the solution of first order ordinary differential equations". Canadian Journal on Science and Engineering Mathematics Vol. 3 No. 4. May 2012.

19. Adesanya A.O, Odekunle, M. R and **James, A.A**, "Starting Hybrid Stomer-Cowell More Accurately by Hybrid Adams Method for the Solution of First Order Ordinary Differential Equation". European Journal of

Scientific Research, ISSN 1450-216X Vol. 77 No. 4 (2012), pp. 580-588 @ EuroJournals Publishing, Inc. 2012

20. Bayesian spatial modelling of Ebola outbreaks in Democratic Republic of Congo through the INLA-SPDE approach Adegboye, O., Gayawan, E., James, A., Adegboye, A., Elfaki, F.Zoonoses and Public Healththis link is disabled, 2021, 68(5), pp. 443–451

Conference Proceedings/Book of Abstracts

1. **James** *et al "* Starting order Eight Method Accurately for the solution of First order ordinary Differential Equations. Paper presented at the 32nd edition of Nigeria Mathematical Society Annual conference (2013), at Obafemi Awolowo University Ile-Ife, Oyo State, Nigeria. Pp67 book of Abstract. 25-28th of June, (2013)

2. **James A. A**, Adesanya A.O, Dauda G.Y. "Derivation and Application of Half Step Continuous Block Method for the Solution of First Order Ordinary Differential Equations" International Conference on Applied Mathematics, April 29th-1st, 2013, World Academy, Johannesburg, South- Africa.

3. **James, A.A** et al, "Starting order six method accurately for the solution of initial value problems of first order ordinary differential equations". Proceedings of International Conference on Computer Engineering and Mathematical Sciences (ICCEMS 2012),p 226-229,ISBN: 978-0-615-69059-9, Kuala Lumpur, Malaysia, August 27-28, 2012.

4. Adesanya A.O, Odekunle, M. R, and **James, A.A** "Continuous Block Method for the Solution of Second Order Initial Value Problems of Ordinary Differential Equations. Book of Abstracts, 31st Nigerian Mathematical Society (NMS 2012)pp 69, Zaria, Nigeria. October, 2012

5. **James Adewale** et al. "Constant Order Hybrid Block Predictor-Hybrid Corrector for the Solution of Ordinary Differential Equations" World Academy of Science, Engineering and Technology. International Science Index issue 83 Nov 20-21, 2013 at International Conference on Applied Mathematics and Numerical Analysis, pp. 789-792. Cape Town, South Africa.

6. sAdewale James, "Half Step Computational Method for Solving First Order Stiff and Oscillatory Problems of ODEs" Canadian International Conference on Advances in Computer, engineering and Applied Sciences. Dubai UAE, 3th-4th of Dec. 2014.

7. James A.A el al. "New Hybrid Predictor, Hybrid Corrector Integrator for the solution of first Order IVPs of ODEs. 51st Annual National Conference of Mathematical Association of Nigeria, Book of Abstracts. 31st August -5th Sept., 2014. University of Ilorin, Ilorin, Kwara State. Nigeria

8. **James, A.A** and Sunday Joshua "Continuous Block Method for the Solution of Second Order Initial Value Problems of Ordinary Differential Equations. Book of Abstracts, 34th Nigerian Mathematical Society (NMS 2015),pp 54, University of Lagos (Unilag), Nigeria. June, 2015

9. **James, A.A** and Sunday Joshua "*Chebyshevian basis function-type block method for the solution of first-order initial value problems with oscillating solutions"* book of abstracts, 34th Nigerian Mathematical society (NMS 2015),pp 54, University of Lagos (Unilag), Nigeria. June, 2015

10. **James, A.A** and Sunday Joshua " Construction of Uniform Order Predictor-Corrector Algorithm for the Solution of First Order IVP of ODEs, Book of Abstracts, 35th Nigerian Mathematical Society (NMS 2015), Federal University of Technology Minna, Niger State, Nigeria. Nigeria. May 2nd –May 7th , 2016

11. **James, Adewale** Fatima Uwa Rilwan (AUN student) and Chukwuma Onwujiuba (AUN Students) "A New Numerical Computation and Application of the Logistic Model of Ordinary Differential Equation, Book of Abstracts, 35th Nigerian Mathematical Society (NMS 2016), Federal University of Technology Minna, Niger State, Nigeria. Nigeria. May 2nd –May 7th, 2016

12. **James Adewale , "**A New Second Derivative Method for the Numerical Solution of Stiff and Oscillatory Systems of Ordinary Differential Equations" Book of Abstracts, 36th Nigerian Mathematical Society (NMS 2017), University of Agriculture Makurdi, Benue State, Nigeria. Nigeria. 9th –12th of May, 2017

13. **James, A.A** " *A family of Second Derivative Method for the Solution of stiff and Oscillatory ODEs problems,* Book of Abstracts, 37th Nigerian Mathematical Society (NMS 2019), University of Nigeria Usukka, Enugu State, Nigeria. Nigeria. 18th t0 21st of June, 2019

14. James, Adewale Adeyemi " A Family of Second Derivative Methods for the Solution of First-order Stiff Problems of Ordinary Differential Equations" Paper ID; AA20 International Conference On Contemporary Developments In Mathematical Sciences (ICCDMS) In Honour of Prof. K. R. Adeboye 13th April, 2021, Department of Mathematics, Federal University of Technology, (FUT), Minna. Niger State, Nigeria.

Published Text book

James, Adewale Adeyemi and Abdul-Rahoof Adebayo Bello, (2010), Basic Statistics for Social Sciences. Text Book Published by National Open University of Nigeria. ISBN: 978-058-488-2 (2010)

Workshops/Seminars:

1. **James, Adewale Adeyemi**. Improving the Standard of Mathematics Education through High Quality Mathematics Text Books (2010), Paper presentation at the workshop organized by University Press PLC, Ibadan, Nigeria.

2. International Workshop and Training in Mathematical Modelling, Neural Network, Data Mining and Scientific Computing with MAPLE and MATLAB. May, 22-28, 2011, at Covenant University Ota, Ogun State, Nigeria.

3. School of Arts and Sciences Faculty Seminar, Construction of Constant Order Predictor Corrector Method for the Solution of Modeled Problems of ODEs. 23rd of September, 2013. Washington Hall, Peter Okocha, American University of Nigeria. Yola, Adamawa.

4. School of Arts and Sciences Faculty Seminar series, Construction of Uniform Order Predictor-Corrector for The Solution Of Logistics And Love Model Of Ordinary Differential Equations. 3rd of March 2016 at Prof. Akpan Idorenyin Multi-Media Lab, e-library

PROJECT SUPERVISION/CONTRIBUTION:

Name of student: Yakubu Gajawa, (2017)Matric No: NOU163811233
Project Topic: Inhabitation to the teaching and learning of introductory technology in junior secondary schools. A case study of junior secondary schools in Yola central zone of Adamawa state, Nigeria
School: National Open University (NOU) Nigeria
Degree: Master's Degree in Education (M.Ed)

Name of student: Bitrus Shallom Danjuma, (2018) Matric No: MSc/MTH/16/1047
Project Topic: Fixed Nonlinear Method for the solution of stiff and singular problem with variable steplength
School: Moddibo-Adama University of Technology, Yola, Nigeria
Degree: Master's Degree in Mathematics (as project content reader)

Name of student: Also, Mohammed Saleh, (2018) Matric No: MSc/MTH/16/0768
Project Topic: Modified Three Term Conjugate Gradient Method with Direction for Unconstrained Optimization
School: Moddibo-Adama University of Technology, Yola, Nigeria
Degree: Master's Degree in Mathematics (as project design reader)

Name of student: Dogo, Iliya Dekilo, (2018) Matric No: MSc/MTH/16/0775
Project Topic: Cobb-Douglas production Function Considering Labor, Equipment/Capital and Raw Materials in Construction Time Cost Analysis
School: Moddibo-Adama University of Technology, Yola, Nigeria
Degree: Master's Degree in Mathematics (as project design reader)

Names of Mathematics Minor Students and Industrial Training Students
A00018406 Fatima Rilwan
A00020567 Abuoma Ofia
A00021647 Loisa Asor
A00016411 Aliyyah Suleiman Adamu
A00019709 Chukwuemeka Dike

Amos Frank Kittaan, MTH/15u/3460
Industrial Mathematics
MAUTECH Yola

William Dunama (MTH /15U/3444)
Industrial Mathematics
MAUTECH Yola

Benjamin Bitrus (MTH/15U/3448)
Mathematics Education
MAUTECH Yola

Journal Review
Journal Name: Science Domain International
Paper Title: A computational method for the solution of electric circuit problems
Journal Name: Journal of Nigeria Society of Physical Sciences
Paper Title: On Direct Integration of First and Second Order ODEs
Journal Name: Journal of Nigeria Mathematical Society
Paper Title: Direct Integration of General Fourth Order Ordinary Differential Equations Using Fifth Order Runge-Kutta Method
Journal Name: Journal of Pure and Applied Sciences
Paper Title: Extended Taylor Series Transformations Techniques for system of second order initial value problems of ordinary differential equations
Journal Name: **British Journal of Mathématiques & Computer Science**
Paper Name: Adams type hybrid block methods associated with Chebyshev polynomial for the solution of ordinary differential equations

Committees and Community Service

1. AUN Judicial affairs (2021…)
2. AUN Sport Committee (2010 till date)
3. Member, Seminar Series Committee AUN (2012 till date)
4. SAS curriculum committee (2013-2017)
5. AUN Chess and Scrabble Coach (2010 till date)
6. Founder and Coordinator of AUN Chess/Scrabble Club. July 2010 till date
7. Free Computer Training for 80 Clergy men in Yola and Jimeta 20th- 25th of July 2015
8. Facilitator: Refresher Training of Primary School Mathematics and Science Teachers in Wukari Local Government, Taraba state. 18th -21st of Feb. 2020
9. Free Training on "Online Teachings Tools" for Lecturers and Staff of Bronnum Lutheran Seminary, Yola, 22nd of July – 5th of August 2020
10. Training and Supervision of IT students
11. Free Training on "Online Teachings Tools" for Lecturers of School of Nursing and Midwifery, Yola, 28th – 29th of September 2020
12. Workshop on "Online Teachings Tools" for Lecturers of Adamawa State Polytechnic Yola. 5th – 6th of Oct. 2020.

Computer Proficiencies

- **Mathematical Software:**
  Maple, Matlab, Mathematica, Scientific workplace, LaTex Doc.
  COMSOL Multi-Physics software

- **Online Teaching Tools:** Zoom, Google classroom, Active Presenter, Open Board, Telegram, Google classroom, Google meet, Canvas Management system, Class maker, Telegram Quiz, PowerPoint audio/video simulations

- Installation of software
- Assembling of computer systems
- Troubleshooting of Computer Errors
- Maintenance of Computer Hardware
- Networking
- Internet connectivity
- Trainer in Application Software and Hardware

Names of Referees

Remilekun M. Odekunle (PhD)
Professor of Mathematics
Department of Mathematics,
ModiboAdama University of Technology Yola, Nigeria.
remi_odekunle@yahoo.com,
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Babatunde R. Adeniyi (PhD)
Professor of Mathematics,
Mathematics Department
University of Ilorin, Ilorin. Nig.
adeniyibr@yahoo.com
+23408038185943

Danjuma Jibasen (PhD)
Professor of Statistics
Department of Statistics and Operational Research,
Modibbo-Adama University of Technology, Yola
djibasen@mautech.edu.ng
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Samuel Musa (PhD)
Prof. of Mathematical Modelling
Department of Mathematics
MAUTECH Yola,
Nigeria
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Yakubu G. Dauda (PhD)
Professor of Mathematics,
Mathematics Department
Abubakar Tafawa Balewa University
Bauchi, Bauchi State. Nigeria
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Sunday Joshua (PhD)
Associate. Prof. of Mathematics
Department of Mathematics
University of Jos, Jos
Nigeria

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