

SULEIMAN Enoch

Department of Mathematics, Federal University Gashua,
Yobe State, Nigeria

enochsuleiman@gmail.com

+2347084701525, +2348064121354

PERSONAL DATA

Sex: Male
Date of Birth: 1ST FEBRUARY, 1987
Nationality: NIGERIAN
State: BAUCHI STATE
Place Of Birth: BAUCHI
Marital Status: MARRIED
Language Proficiency: ENGLISH, HAUSA

INSTITUTIONS ATTENDED WITH DATES

- University Of Jos, Jos, Plateau State, Nigeria. 2016-2023
- University Of Benin, Benin City, Edo State, Nigeria. 2013-2015
- Abubakar Tafawa Balewa University, Bauchi, Bauchi State. 2005-2011
- International Secondary School, ATBU, Bauchi, Bauchi State. 1999-2005
- Federal Polytechnic Staff School, Bauchi, Bauchi State. 1992-1999

QUALIFICATION OBTAINED WITH DATES

- PhD Mathematics 2023
- M.Sc (Mathematics). 2015
- Health, Safety and Environment (HSE), Competence (Level 2). 2012
- B.TECH. (HONS) Mathematics, 2ND Class (Upper Division). 2011
- Diploma in Data Communications and Networking. 2010
- Diploma in PC Repairs, Maintenance and Assembly. 2009
- Diploma in Computer Operations. 2009
- Senior Secondary School Leaving Certificate. 2005
- First School Leaving Certificate. 1999

ACADEMIC RESPONSIBILITIES

Assistant Lecturer 30TH November, 2018 - 30TH September 2021.
Lecturer II 1ST October, 2021 - Date

ADMINISTRATIVE WORK

Departmental Examination Officer, 10TH July, 2019 - February 2023.

COURSES TAUGHT

- MTH 301 (Abstract Algebra I)
- MTH 302 (Abstract Algebra II)
- MTH 308 (Metric Space Topology)
- MTH 307 (Real Analysis II)
- MTH 405 (General Topology)
- MTH 406 (Group Theory)
- STA 202 (Statistics For Applied Sciences)
- MTH 101 (Elementary Mathematics I)
- MTH 102 (Calculus)
- STA 102 (Introductory Statistics)

MEMBERSHIP OF PROFESSIONAL BODIES

- NMS (NIGERIAN MATHEMATICAL SOCIETY).
- AMS (AMERICAN MATHEMATICAL SOCIETY).

WORKING EXPERIENCE/COVER PROGRESS

- Federal University Gashua, Yobe State. 2018-Date
- Hope Academy Bauchi, Bauchi State. 2016-2017
- EkosodinJunour Secondary School, Benin City, Edo State.(NYSC) 2012-2013
- Prof. Iya Abubakar Community Resource Centre, Bauchi, Bauchi State. (Industrial Training) 2009-2010

RESEARCH ACTIVITIES

Permutation Groups, Algebra, Combinatorics, Graph Theory, Topology.

PUBLICATIONS

a. Thesis

- Enoch Suleiman.** (2023). Embedment Of Groups into Wreath Products. (PhD Thesis)
- Enoch Suleiman.** (2015). Conjugacy Of Ergodic Measure-Preserving Transformations with pure point spectrum. (Masters Project)
- Enoch Suleiman.** (2011). Multiple Soliton Solution for the Sawada-Kotera and a (2+1)-Dimensional Soliton Equations. (Undergraduate Project)

b. Conference Papers

- 1) Manal Al-Labadi, Shuker Khalil, **Enoch Suleiman**, Namuma Yerima. (2023). On $\{1\}$ -commutative permutation BP-algebras, International Conference on Mathematical and Statistical Physics, Computational Science, Education and Communication (ICMSCE 2023, Proc. of SPIE Vol. 12936, 129361N · © 2023 SPIE · 0277-786X · doi: 10.1117/12.3011417
- 2) Manal Al-Labadi, Shuker Khalil, **Enoch Suleiman**. (2023). New Structure of d-Algebras Using Permutations, International Conference on Mathematical and Statistical Physics, Computational Science, Education and Communication (ICMSCE 2023), Proc. of SPIE Vol. 12936, 129360M · © 2023 SPIE · 0277-786X · doi: 10.1117/12.3011428
- 3) Shuker Alsalem, Abu Firas Al Musawi, **Enoch Suleiman**. (2023). On Permutation G-part in Permutation Q-algebras, International Conference on Mathematical and Statistical Physics, Computational Science, Education, and Communication (ICMSCE 2022), Proc. Of SPIE Vol. 12616, 1261604 · © 2023 SPIE · 0277-786X · doi: 10.1117/12.2674993
- 4) Mohanad Abdulkareem Hasan, **Enoch Suleiman**, Namuma Yerima. (2022). 1ST International Conference for Physics and Mathematics (1ST ICMP 2022) **to appear**
- 5) Nadia M. Ali Abbas, Shuker Alsalem, **Enoch Suleiman**. (2022). On Associative Permutation BM-algebras, *2022 14th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)* | 978-1-6654-6071-2/22/\$31.00. IEEE | DOI: 10.1109/MACS56771.2022.10022691
- 6) Shuker M. Khalil, Abu Firas Muhammad Jawad al Musawi, **Enoch Suleiman**. (2022). On Permutation Upper and Transitive BE-algebra, *2022 14th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)* | 978-1-6654-6071-2/22/\$31.00, IEEE | DOI: 10.1109/MACS56771.2022.10022454
- 7) Shuker Alsalem, Abu Firas Al Musawi, **Enoch Suleiman**. (2022). On Permutation B-center and Derived Permutation B-algebras, 7th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Athens, Greece, 2022, pp. 46-50, doi: 10.1109/MCSI55933.2022.00014.
- 8) Shuker Alsalem, Abu Firas Al Musawi, **Enoch Suleiman**. (2022). On maximal permutation BH—ideals of Permutation BH—Algebras, 7th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Athens, Greece, 2022, pp. 40-45, doi: 10.1109/MCSI55933.2022.00013.
- 9) Shuker M. Khalil, **Enoch Suleiman**, Nadia M. Ali Abbas. (2021). New Technical to Generate Permutation Measurable Spaces, *1st Babylon International Conference on Information and Science (BICITS 2021)-Babil-IRAQ IEEE*, pg 160-163. DOI:10.1109/BICITS51482.2021.9509892

c. Articles in learned Society

- 1) **Enoch Suleiman**, Al-Musawi, A.F., Khalil, S. (2024). New Classes of the Quotient Permutation BN-Algebras in Permutation BN-Algebras. In: Leung, HH., Sivaraj, R., Kamalov, F. (eds) Recent Developments

- in Algebra and Analysis. ICRDM 2022. Trends in Mathematics. Birkhäuser, Cham. https://doi.org/10.1007/978-3-031-37538-5_2
- 2) Ali Abbas, N.M., Khalil, S., **Enoch Suleiman**. (2024). On Permutation Distributive BI-Algebras. In: Leung, HH., Sivaraj, R., Kamalov, F. (eds) Recent Developments in Algebra and Analysis. ICRDM 2022. Trends in Mathematics. Birkhäuser, Cham. https://doi.org/10.1007/978-3-031-37538-5_14
 - 3) Nasir Ali, Zaeema Kousar, Maimoona Safdar, Fikadu Tesgara Tolasa, **Enoch Suleiman**. (2023). Mapping Connectivity Patterns: Degree-Based Topological Indices of Corona Product Graphs, *Journal of Applied Mathematics* Volume 2023, Article ID 8975497, 10 pages <https://doi.org/10.1155/2023/8975497>
 - 4) Marina Anagnostopoulou-Merkouri, Peter J. Cameron, **Enoch Suleiman**. (2023). Pre-primitive permutation groups, *Journal of Algebra*, Volume 636, Pages 695-715, <https://doi.org/10.1016/j.jalgebra.2023.09.012>
 - 5) Abu Firas Muhammad Jawad Al Musawi, **Enoch Suleiman**. (2023). On permutation topological groups with their basic properties, *Journal of Discrete Mathematical Sciences & Cryptography*, Vol. 26 (2023), No. 4, pp. 1145-1151 DOI : 10.47974/JDMSC-1551
 - 6) A. F. Al-Musawi, Shuker Khalil, **Enoch Suleiman**. (2023). On Permutation Quotient Object in Permutation G-Sets. In: Bansal, J.C., Sharma, H., Chakravorty, A. (eds) *Congress on Smart Computing Technologies. CSCT 2022. Smart Innovation, Systems and Technologies*, vol 351. Springer, Singapore. https://doi.org/10.1007/978-981-99-2468-4_33
 - 7) **Enoch Suleiman**, Muhammed Salihu Audu. (2023). Derived Subgroup and Direct Product of Groups Embedded Into Wreath Product, *International Journal of Mathematical and Computational Methods*, Volume 8, 2023, pg: 8-11
 - 8) Domven Lohcwat, **Enoch Suleiman**, Samaila Markus, Dauda G. Yakubu. (2023). Construction Of Cryptographic Scheme Of Finite Field Using Logical Operators On Rhotrices. *Science Forum (Journal of Pure and Applied Sciences)*, 23 (2023) 12 – 20
 - 9) Cheryl E. Praeger, **Enoch Suleiman**. (2023). On the proportion of elements of prime order in finite symmetric groups. *International Journal Of Group Theory*, Vol. X No. X (202x), Pp. Xx-Xx. <http://dx.doi.org/10.22108/ijgt.2023.135509.1810>
 - 10) **Enoch Suleiman**, B. Sury. (2023). A Potpourri of Pretty Identities Involving Catalan, Fibonacci and Trigonometric Numbers, *Parabola*, Volume 59, Issue 1
 - 11) **Enoch Suleiman**, Ahmed A. Khammash. (2023). Coding Matrices for Wreath Products of Groups, *Nigerian Society of Physical Sciences, African Scientific Reports* 2 (2023) 98. DOI:10.46481/asr.2023.2.2.114
 - 12) Shuker Mahmood Khalil, **Enoch Suleiman**, Modhar M. Torqi. (2022). Generated new classes of permutation I/B-Algebras, *Journal of Discrete Mathematical Sciences & Cryptography*, DOI: 10.1080/09720529.2021.1968110
 - 13) **Enoch Suleiman**, Muhammed Salihu Audu. (2021). On Some Embedment of Groups into Wreath Products, *Advances in Pure Mathematics*, **11**, 109-120
 - 14) **Enoch Suleiman**, M. S. Audu. (2020). Some Embedment of Groups into Wreath Products, *International Journal of Algebra and Statistics*, Volume 9:1-2, 1-10
 - 15) **Enoch Suleiman**, M. S. Audu. (2020). Computing the Full Non-Rigid Group of Trimethylborane and Cyclohexane Using Wreath Product, *American Journal of Computational Mathematics*, **10**, 23-30
 - 16) **Enoch Suleiman**, Mshelia I. Bello. (2019). Character table for dirheniumdecacarbonyl of full non-rigid molecule group, *Science Forum(Journal of Pure and Applied Sciences) ATBU*, Volume 16, 1-4.
 - 17) **Enoch Suleiman**, Mshelia I. Bello. (2019). Topology Generated By Collection of Subsets, *International Journal of Pure and Applied Sciences*, Vol.2(1)
 - 18) Nibron Haggai Manjak, Jeremiah OdibaOkai, **Enoch Suleiman**. (2019). The single soliton solution of the non-linear Schrodinger equation by modified Adomian decomposition method, *Science Forum(Journal of Pure and Applied Sciences)*, Volume17, pg:41-48
 - 19) Zhen-jiang Liu, M. Y. Adamu and **Enoch Suleiman**, Ji-Huan HE. (2016). Hybridization Of Homotopy Perturbation Method And Laplace Transformation For The Partial Differential Equations, *Thermal Science*, pages 321-324
 - 20) M. Y. Adamu, O. J. Okai and **Enoch Suleiman**. (2016). On the Modified Decomposition Method Applied to a Transformed FredholmIntegro-Differential Equation of the Second Kind, *Journal of the Nigerian Association of Mathematical Physics*, Volume 35, pp413-416

- 21) M. Y. Adamu, **Enoch Suleiman**. (2014). On Bilinear Equations, Bell Polynomials and Linear Superposition Principle, *American Journal of Computational and Applied Mathematics*, 4(5): 155-160.
- 22) M. Y. Adamu and **Enoch Suleiman**. (2013). Solving Boussinesq equation by the bilinear Backlund transformation, *Applied and Computational Mathematics*, 2(2), 32-35.
- 23) M. Y. Adamu, **Enoch Suleiman** and A. G. Madaki. (2013), Solving Nonlinear Partial Differential Equation Using Painleve Analysis, *The International Journal of Engineering And Sciences (IJES)*, 2, (01) 243-245.
- 24) M. Y. Adamu and **Enoch Suleiman**. (2013). On linear Superposition principle Applying to Hirota Bilinear Equations: *American Journal of Computational and Applied Mathematics* 2013, 3(1): 8-12
- 25) M. Y. Adamu and **Enoch Suleiman**. (2012). Linear Subspaces of Solutions Applied to Hirota Bilinear equations, *Acer international journal of science and technology* 1(2), 40-46.
- 26) M. Y. Adamu and **Enoch Suleiman**. (2012). On the Generalized Bilinear Differential Equations, *IOSR Journal of Mathematics* 3, (4) 24-30

d. Preprints

- 1) **Enoch Suleiman**, Muhammed Salihu Audu, Sunday U. Momoh. (2023). Group Embedding Into Wreath Products: Cartesian Decomposition Approach, arXiv:2211.00418v3 [math.GR] 10 May 2023
- 2) Marina Anagnostopoulou-Merkouri, Peter J. Cameron, **Enoch Suleiman**. (2023). A new property of permutation groups, arXiv:2302.13703v1 [math.GR] 27 Feb 2023
- 3) Cheryl E. Praeger, **Enoch Suleiman**. (2022). On the proportions of elements of prime order in finite symmetric groups, arXiv: 2210.15355v1 [math.CO] 27 Oct 2022.

CONFERENCES ATTENDED

- 1) International Analytics Conference (IAC-2023) Jointly organized by VectMag on 26TH February, 2023.
Paper Topic Presented: On Permutation Coxeter Algebras and Smarandache-Type Permutation P-Algebras.
- 2) International Conference on Recent Development in Mathematics (ICRDM 2022) held at Canadian University of Dubai, Dubai, UAE from 24-26TH August 2022.
Paper Topic Presented: New Classes of the Quotient Permutation BN-Algebras in Permutation BN-Algebras.
- 3) International Conference on Computational and Intelligent Data Science (ICCID 2022) organized by Guru Nanak Institute of Management, New Delhi in association with Universal Inovators on 21ST May 2022.
Paper Topic Presented: On Permutation BE algebra.

GRANTS RECEIVED

1. Africa Oxford (AfOx) Catalyst Grant, The Africa Oxford Initiative/Oxford University United Kingdom, 6TH December, 2023. **Travel Grant £5,000 Awarded.**

RESEARCH VISIT

1. Mathematics Institute, University of Oxford, United Kingdom, under Prof. Yakov Kremnitzer
February-April 2024

SEMINAR PAPERS PRESENTED

1. Topic: A Potpourri of Pretty Identities Involving Catalan, Fibonacci and Trigonometric Numbers, Mathematics Institute, University of Oxford, United Kingdom, 12TH March 2024

CONFERENCE/JOURNAL PAPERS REVIEWED

- ✓ 3rd International Scientific Conference of Engineering Sciences (ISCES 2023). College of Engineering, University of Diyala and co-sponsored by IEEE Iraq Section on 3-4 May 2023, Ba'qubah, Diyala, Iraq.
- ✓ 1ST International Conference on Physics and Mathematics (1ST ICPM 2022). University of Anbar. IEEE. 28/9/2022

- ✓ 8TH International Conference on Contemporary Information Technology Mathematics (ICCITM 2022).
University of Mosul, Mosul, Iraq. IEEE. 30-31ST August 2022

DISTINCTIONS/AWARDS/HONOURS

- i. Certificate of Merit, AbubakarTafawaBalewa University, Bauchi, As the Winner of Right Hon. KawuwaShehuDamina (Speaker Bauchi State House of Assembly) Prize for best Graduating Student in Mathematics 2010/2011 Academic Session. 2016
- ii. Certificate of Merit, National Mathematical Centre, Abuja, Mathematical Olympiad Pre-PAMO/IMO Competitions. 2005
- iii. 4TH Position Mathematical Association of Nigeria (MAN), Mathematical Olympiad at UsmanDanfodio University, Sokoto. 2004

Web Of Science ID: 18199298

Scopus ID: 57458869100

REFEREES

1. Prof. M. S. Audu
Department Of Mathematics,
University Of Jos,
Jos, Plateau State,Nigeria.
audumso2@gmail.com
2. Prof. Shuker M. Khalil Alsalem
Department of Mathematics,
University of Basrah,
Basrah, Iraq.
shuker.alsalem@gmail.com
3. Emer. Prof. Cheryl E. Praeger
Department of Mathematics and Statistics,
University of Western Australia,
Cheryl.Praeger@uwa.edu.au
4. Prof. Ahmed Ali Khammash
Department of Mathematical Sciences,
Umm Al-Qura University,
Makka, Saudi Arabia.
prof.khammash@gmail.com
5. Prof. B. Sury
Stat-Math Unit,
Indian Statistical Institute,
Bangalore, India.
surybang@gmail.com
6. Dr. Babatunde Aina
Department of Mathematics
Federal University Gashua,
Yobe State, Nigeria
ainavicdydx@gmail.com