



Short Biography

Dr. Abubakar Adamu is a distinguished academician with expertise spanning the fields of Fixed Point Theory and its Applications. Born in the early 1990s, in Kano, Nigeria, his fascination with mathematics stems from its symbiotic relationship with the human world, as articulated by Roger Bacon: "The things of this world cannot be known without the knowledge of Mathematics." This fascination led him to pursue a Bachelor's degree in Pure and Applied Mathematics at Bayero University Kano, Nigeria.

After completing his undergraduate studies with honors, Dr. Adamu furthered his academic journey by obtaining both an MSc and a Ph.D. in Pure and Applied Mathematics at the African University of Science and Technology, Abuja, Nigeria. His Ph.D. thesis, titled "Approximation of Solutions of Inclusion Problems with Applications to Hammerstein Equation and Image Restoration," was supervised by the late Professor Charles Ejike Chidume, of blessed memory. The thesis resulted in the publication of 10 research articles published in highly reputable journals indexed in SCOPUS or Web of Science. Driven by his passion for pushing the boundaries of knowledge, Dr. Adamu held various prestigious research positions, including a postdoctoral fellowship at King Mongkut's University of Technology Thonburi in Bangkok, Thailand.

Dr. Adamu's academic career soared when he joined the faculty at Near East University, where he served as a Lecturer Dr at the Operational Research Center in Healthcare. His research contributions significantly advanced the understanding of the applications of fixed point theories, particularly in life sciences and engineering. Notably, his work explored the applications of fixed point theories to medical image restoration, demonstrating his commitment to solving real-life problems through mathematical modeling. Dr. Adamu's strengths lie in his ability to seamlessly connect strong analytical understanding with application-driven thinking. His work, published in numerous peer-reviewed journals, has rightfully earned him recognition as a leading figure in the field. His legacy continues to inspire the next generation of mathematicians and researchers as he contributes to the ongoing advancement of mathematical knowledge and its practical applications.

**ACADEMIC
CURRICULUM VITAE**

1. Name -Surname: Abubakar Adamu

2. Title: Lecturer Dr

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Department of Pure and Applied Mathematics	Bayero University Kano , Kano, Nigeria.	2016
Master's	Department of Pure and Applied Mathematics	African University of Science and Technology, Abuja, Nigeria.	2017
PhD	Department of Pure and Applied Mathematics	African University of Science and Technology, Abuja, Nigeria.	2020

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s): A Krasnoselskii-type algorithm for approximating solutions of variational inequality problems and convex feasibility problems. **Advisor:** Professor Charles Ejike Chidume

4.2. PhD Thesis / Medical Specialty Thesis Title and Advisor(s): Approximation of solutions of inclusion problems with applications to Hammerstein equation and image restoration. **Advisor:** Professor Charles Ejike Chidume

5. Academic Titles:

Date of Assistant Professorship:

Date of Associate Professorship:

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

6.2. PhD Theses

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI, SSCI, AHCI, ESCI, Scopus)

1. **Adamu, A.**, Kumam, P., Kitkuan, D., & Padcharoen, A. (2023). Relaxed modified Tseng algorithm for solving variational inclusion problems in real Banach spaces with applications. *Carpathian Journal of Mathematics*, 39(1), 1-26.
2. **Adamu, A.**, Chidume, C.E., Kitkuan, D., & Kumam, P. (2023). Geometric inequalities for solving variational inequality problems in certain Banach spaces. *Journal of Nonlinear & Variational Analysis*, 7(2).
3. **Adamu, A.**, Kumam, P., Kitkuan, D., & Padcharoen, A. (2023). A Tseng-type algorithm for approximating zeros of monotone inclusion and J-fixed-point problems with applications. *Fixed Point Theory and Algorithms for Sciences and Engineering*, 2023(1).
4. **Adamu, A.**, Ozsahin, D. U., Ibrahim, A. H., & Sunthrayuth, P. (2023). A Technique with diminishing and non-summable step-size for monotone inclusion problems in Banach spaces. *Nonlinear Functional Analysis and Applications*, 1051-1067.
5. Wang, Z. B., Sunthrayuth, P., **Adamu, A.**, & Cholamjiak, P. (2023). Modified accelerated Bregman projection methods for solving quasi-monotone variational inequalities. *Optimization*, 1-35.
6. Dechboon, P., **Adamu, A.**, & Kumam, P. (2023). A generalized Halpern-type forward-backward splitting algorithm for solving variational inclusion problems. *AIMS Mathematics*, 8(5), 11037-11056.
7. Okeke, C. C., & **Adamu, A.** (2023). Two-step inertial method for solving split common null point problem with multiple output sets in Hilbert spaces.
8. Deepho, J., **Adamu, A.**, Ibrahim, A. H., & Abubakar, A. B. (2023). Relaxed viscosity-type iterative methods with application to compressed sensing. *The Journal of Analysis*, 1-17.
9. Bashir Ali, A. A. A., & **Adamu, A.** (2023). An Accelerated Algorithm involving quasi- ϕ -nonexpansive operators for solving split. *Journal of Nonlinear Modeling and Analysis*, 5(1), 54-72.
10. **Adamu, A.**, Kitkuan, D., Kumam, P., Padcharoen, A., & Seangwattana, T. (2022). Approximation method for monotone inclusion problems in real Banach spaces with applications. *Journal of Inequalities and Applications*, 2022(1), 1-20.
11. **Adamu, A.**, Kitkuan, D., Padcharoen, A., Chidume, C. E., & Kumam, P. (2022). Inertial viscosity-type iterative method for solving inclusion problems with applications. *Mathematics and Computers in Simulation*, 194, 445-459.
12. Hassan Ibrahim, A., Kumam, P., Bala Abubakar, A., & **Adamu, A.** (2022). Accelerated derivative-free method for nonlinear monotone equations with an application. *Numerical Linear Algebra with Applications*, 29(3), e2424.
13. Muangchoo, K., **Adamu, A.**, Ibrahim, A. H., & Abubakar, A. B. (2022). An inertial Halpern-type algorithm involving monotone operators on real Banach spaces with

- application to image recovery problems. *Computational and Applied Mathematics*, 41(8), 364.
14. **Adamu, A.**, & Adam, A. A. (2021). Approximation of solutions of split equality fixed point problems with applications. *Carpathian Journal of Mathematics*, 37(3), 381-392.
 15. **Adamu, A.**, Deepho, J., Ibrahim, A. H., & Abubakar, A. B. (2021). Approximation of zeros of sum of monotone mappings with applications to variational inequality and image restoration problems. *Nonlinear Funct. Anal. Appl*, 26(2), 411-432.
 16. Chidume, C., & **Adamu, A.** (2021). A new iterative algorithms for split feasibility and fixed point problems, *J. Nonlinear Var. Anal*, 5(2), 201-210.
 17. Chidume, C. E., **Adamu, A.**, Kumam, P., & Kitkuan, D. (2021). Generalized hybrid viscosity-type forward-backward splitting method with application to convex minimization and image restoration problems. *Numerical Functional Analysis and Optimization*, 42(13), 1586-1607.
 18. Chidume, C. E., **Adamu, A.**, & Nnakwe, M. O. (2021). An inertial algorithm for solving Hammerstein equations. *Symmetry*, 13(3), 376.
 19. Chidume, C. E., & **Adamu, A.** (2021). Solving split equality fixed point problem for quasi-phi-nonexpansive mappings. *Thai Journal of Mathematics*, 19(4), 1699-1717.
 20. Ibrahim, A. H., Deepho, J., Abubakar, A. B., & **Adamu, A.** (2021). A three-term Polak-Ribière-Polyak derivative-free method and its application to image restoration. *Scientific African*, 13, e00880.
 21. Chidume, C. E., **Adamu, A.**, Minjibir, M. S., & Nnyaba, U. V. (2020). On the strong convergence of the proximal point algorithm with an application to Hammerstein equations. *Journal of Fixed Point Theory and Applications*, 22(3), 61.
 22. Chidume, C. E., & **Adamu, A.** (2020). On split generalized mixed equality equilibrium and split equality fixed point problems. *Appl. Set-Valued Anal. Optim.*, 2(3), 273-283.
 23. Chidume, C. E., **Adamu, A.**, & Okereke, L. C. (2020). Iterative algorithms for solutions of Hammerstein equations in real Banach spaces. *Fixed Point Theory and Applications*, 2020(1), 1-23.
 24. Chidume, C. E., **Adamu, A.**, & Nnakwe, M. O. (2020). Strong convergence of an inertial algorithm for maximal monotone inclusions with applications. *Fixed Point Theory and Applications*, 2020(1), 1-22.
 25. Chidume, C. E., Kumam, P., & **Adamu, A.** (2020). A hybrid inertial algorithm for approximating solution of convex feasibility problems with applications. *Fixed Point Theory and Applications*, 2020, 1-17.
 26. Chidume, C. E., De Souza, G. S., Nnyaba, U. V., Romanus, O. M., & **Adamu, A.** (2020). Approximation of zeros of m-accretive mappings, with applications to Hammerstein integral equations. *Carpathian Journal of Mathematics*, 36(1), 59-69.
 27. Chidume, C. E., **Adamu, A.**, & Okereke, L. C. (2020). Strong convergence theorem for some nonexpansive-type mappings in certain Banach spaces. *Thai Journal of Mathematics*, 18(3), 1537-1548.

28. Chidume, C. E., **Adamu, A.**, & Okereke, L. C. (2019). Approximation of solutions of Hammerstein equations with monotone mappings in real Banach spaces. *Carpathian Journal of Mathematics*, 35(3), 305-316.
29. Chidume, C. E., Nnakwe, M. O., & **Adamu, A.** (2019). A strong convergence theorem for generalized- Φ -strongly monotone maps, with applications. *Fixed Point Theory and Applications*, 2019(1), 1-19.
30. Chidume, C. E., Ikechukwu, S. I., & **Adamu, A.** (2018). Inertial algorithm for approximating a common fixed point for a countable family of relatively nonexpansive maps. *Fixed Point Theory and Applications*, 2018(1), 1-9.
31. Chidume, C. E., Chinwendu, L. O., & **Adamu, A.** (2018). A hybrid algorithm for approximating solutions of a variational inequality problem and a convex feasibility problem. *Advances in Nonlinear Variational Inequalities*, 21(1), 46-64.
32. Chidume, C. E., **Adamu, A.**, & Okereke, L. C. (2018). A Krasnoselskii-type algorithm for approximating solutions of variational inequality problems and convex feasibility problems. *Nonlinear Var. Anal*, 2(2), 203-218.

7.2. ArticlesPublished in Other International Peer-ReviewedJournals

1. Chidume, C.E., Adam, A. A., & **Adamu, A.** (2023). An iterative method involving a class of quasi-phi-nonexpansive mappings for solving split equality fixed point problems. *Creative Mathematics & Informatics*, 32(1).
2. **Adamu, A.**, Kitkuan, D., & Seangwattana, T. (2022). An accelerated Halpern-type algorithm for solving variational inclusion problems with applications. *Bangmod International Journal of Mathematical and Computational Science*, 8, 37-55.

7.3. PapersPresented at International ScientificConferencesandPublished in Conference Proceedings

7.4.National/internationalBooksorBookChapters

7.5. ArticlesPublished in National Peer-ReviewedJournals

8. Art and Design Activities

9. Projects

10. AdministrativeResponsibilities

11. Memberships in Scientificand Professional Organizations

12. Awards

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022					
2022 - 2023	Spring	IND301 System Analysis	3	0	3