

OLAOLUWA JEREMIAH OMIDIRE, PhD

CURRICULUM VITAE

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RESEARCH PROFILE

Nonlinear functional analyst working on fixed point and common fixed point theory, generalized contractive mappings, iterative approximation methods in Banach and Hilbert spaces, and applications to variational inequalities, optimization, and nonlinear operator equations. Current work focuses on non-unique fixed-point selection, inertial and hybrid algorithms, and optimization over fixed-point sets.

RESEARCH INTERESTS

Fixed point theory; nonlinear functional analysis; Banach and Hilbert space methods; iterative algorithms; convergence and stability analysis; variational inequalities; monotone operator methods; convex and nonconvex optimization; nonlinear operator equations.

ACADEMIC APPOINTMENTS AND RESEARCH VISITS

- 2022-present Lecturer II, Department of Mathematical Sciences, Osun State University, Osogbo, Nigeria.
- Apr-May 2026 Visiting Scholar, ICMRA Visiting Scholars Program, Beijing Institute of Mathematical Sciences and Applications (BIMSA), Beijing, China.
- 2021-2022 Adjunct Lecturer, Lagos State University / Osun State College of Education, Ilesa Study Centre, Nigeria.
- 2014-2015 Lecturer II, Graceland Polytechnic, Offa, Kwara State, Nigeria.

EDUCATION

- PhD Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria, 2019. Thesis: "Convergence Results for Fixed Point Iterations in Some Banach Spaces."
- MSc Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria, 2015. Thesis: "Investigation of Some New Fixed Point Theorems of Banach Type."
- BSc (Ed.) Mathematics, University of Uyo, Uyo, Nigeria, 2010. Long essay: "Relative Effectiveness of Three Instructional Strategies on Students' Achievement in Mathematics."

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Ishola, B. T., Olatinwo, M. O., Omidire, O. J., & Ariyo, R. D. (2026). Some Fixed Point Theorems Involving Akram-Type Contractive Condition in Banach Spaces. *FUDMA Journal of Sciences*, 10(11), 359-364. [DOI](#)
2. Omidire, O. J., Ansari, A. H., Ariyo, R. D., & Aduragbemi, M. (2025). Approximating Fixed Point of Generalized C-class Contractivity Conditions. *International Journal of Mathematical Sciences and Optimization: Theory and Applications*, 11(1), 1-10. [DOI](#)
3. Omidire, O. J., Tijani, K. R., & Ishola, B. T. (2024). A Study of Common Fixed Point of Enriched Contractions. *Kathmandu University Journal of Science, Engineering and Technology*, 18(2). [DOI](#)
4. Omidire, O. J. (2024). Common Fixed Point Theorems of Some Certain Generalized Contractive Conditions in Convex Metric Space Settings. *International Journal of Mathematical Sciences and Optimization: Theory and Applications*, 10(3), 1-9. [DOI](#)
5. Olatinwo, M. O., & Omidire, O. J. (2023). Some New Convergence and Stability Results for Jungck Generalized Pseudo-Contractive and Lipschitzian Type Operators Using Hybrid Iterative Techniques in the Hilbert Space. *Rendiconti del Circolo Matematico di Palermo Series 2*, 72, 1067-1086. [DOI](#)
6. Olatinwo, M. O., & Omidire, O. J. (2021). Convergence of Jungck-Schaefer and Jungck-Kirk-Mann Iterations to the Unique Common Fixed Point of Jungck Generalized Pseudo-Contractive and Lipschitzian Type Mappings. *Journal of Advanced Mathematical Studies*, 14(1), 153-167.

7. Olatinwo, M. O., & Omidire, O. J. (2020). Convergence Results for Kirk-Ishikawa and Some Other Iterative Algorithms in Arbitrary Banach Space Setting. *Transactions on Mathematical Programming and Applications*, 8(1), 1-11.
8. Olatinwo, M. O., & Omidire, O. J. (2016). Fixed Point Theorems of Akram-Banach Type. *Nonlinear Analysis Forum*, 21(2), 55-64.

PREPRINTS AND MANUSCRIPTS

1. Ansari, A. H., & Omidire, O. J. (2025). Convergence of C-Class Enriched Hardy-Rogers Contractions in Some Banach Spaces. arXiv:2506.17806. Preprint; manuscript under review. [Link](#)
2. Omidire, O. J., & Olatinwo, M. O. (2024). Fixed Point and Common Fixed Point of Enriched Hardy-Rogers Contractions in Some Banach Spaces. Research Square preprint. [Link](#)
3. Omidire, O. J., Adeyinka, F. S., Ishola, B. T., Olatinwo, M. O., & Tijani, K. R. (2026). Strong convergence results for a new class of Jungck-strictly pseudo-contractive mappings via inertial and accelerated iterative schemes. Under review.
4. Omidire, O. J., Ishola, B. T., & Ariyo, R. D. (2026). Accelerated inertial Jungck iterative scheme for Jungck generalized pseudocontractive and S-Lipschitzian mappings in Hilbert spaces. Under review.
5. Omidire, O. J., Akinpelu, G. A., & Odeyemi, K. A. (2026). Mathematical Analysis of Tuberculosis Transmission under Combined Control Strategies. Under review.

WORK IN PROGRESS / BIMSA COLLABORATIONS

- Omidire, O. J. & Axel G. R. Turnquist. “Gauge-Controlled Firmly Quasi-Nonexpansive Operators and Fixed-Point Selection in Hilbert Spaces.”
- Omidire, O. J. & Yi-Shuai Niu. “Inertial DCA over Fixed-Point Sets: HSDM Subproblem Solvers, Relative-Residual Inexactness, and KL Convergence.”

BOOK CONTRIBUTIONS

Essential Mathematics for University Students (UNIOSUN Publishing Limited, 2025). Contributing author: Chapter 8 (Complex Numbers), Chapter 12 (Sequences and Series), Chapter 13 (Real-Valued Functions of a Real Variable), and Chapter 19 (Probability).

SELECTED RESEARCH PRESENTATIONS

- BIMSA Computational Math Seminar, Beijing, 29 Apr 2026: “A Unified Approach to Non-Unique Fixed Points via Modified C-Class Ciric-Type Contractions.”
- International Conference on Mathematical Sciences and Optimization, Covenant University, 24-30 Aug 2025: “Convergence of Halpern-Schaefer-like iteration to the unique fixed point of inverse strongly monotone operator” and “An iterative sequence for an inverse strongly monotone operator in Hilbert spaces.”
- Department of Mathematics Conference, Obafemi Awolowo University, 20 Feb 2024: “Common Fixed Points of Enriched Contractions in Banach Spaces.”
- International Conference on Mathematical Sciences and Optimization, University of Lagos, 28 Aug-2 Sep 2023: “Fixed Points of Akram-Jungck Type Contractions in Convex Metric Space Settings.”
- 40th Nigerian Mathematical Society Annual Conference, Usmanu Danfodiyo University, Sokoto, 18-23 Jun 2023: “Approximating Fixed Points of Akram-Type Conditions in Convex Metric Space Settings.”

TEACHING EXPERIENCE

Current and recent teaching spans undergraduate and postgraduate courses in analysis, topology, differential equations, and computational mathematics.

- Real Analysis I & II; Functional Analysis; Measure Theory; Lebesgue Measure and Integration; Metric Space Topology; General Topology.
- Elementary Differential Equations; Applied Mathematical Analysis; Mathematical Methods I; Mathematical Packages I.

- General Mathematics I & II; Elementary Mathematics III; Mathematics for Biological, Health and Agricultural Sciences.
- Project Proposal and Undergraduate Project supervision.

RESEARCH SUPERVISION

Four undergraduate research projects supervised, with emphasis on fixed point theory, iterative methods, and related mathematical analysis.

ACADEMIC SERVICE AND LEADERSHIP

- Departmental Examination Officer, Osun State University, 2023-present.
- Departmental Coordinator, Centre for Entrepreneurship Studies, 2023-present.
- Departmental Undergraduate Project Coordinator, 2023-present.
- Departmental Undergraduate Seminar Coordinator, 2023-present.
- 400-Level Adviser, 2024-present.
- Reviewer, Journal of Multidisciplinary Applied Natural Science.
- Reviewer, International Journal of Mathematical Sciences and Optimization.
- JAMB Proctor, 2025 and 2026.

HONORS AND PROFESSIONAL MEMBERSHIPS

- Merit Award, Most Active Departmental Coordinator, Centre for Entrepreneurship Studies, Osun State University, 2026.
- Member, Nigerian Mathematical Society (NMS).
- Member, Mathematical Analysis and Optimization Group.
- Member, Mathematical Association of Nigeria (MAN).

ADDITIONAL PROFESSIONAL EXPERIENCE

- Head, Department of Mathematics & ICT, Redeemer's International Academy, Ifewara, Osun State, 2015-2022.
- Author and independent editor/reviewer, Evans Brothers Publishers, Ibadan, 2014-2022.
- WAEC and NECO mathematics examiner, 2011-2022.
- Data Analyst and Supervisor, World Health Organization polio immunization activities, Brass LGA, Bayelsa State, 2010-2011.