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Date Of Birth : 30/12/1992
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Current Affiliation : Department Of Mathematics , Dr. Babasaheb Ambedkar
Marathwada University, Aurangabad, Maharashtra, India
Specialization : Fractional Calculus and Its Mathematical Methods
Interests : Functional Analysis.
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ACADEMIC QUALIFICATIONS

2022 - present : “completed” Ph.D. Mathematics, Dr. Babasaheb Ambedkar
Marathwada University, Aurangabad, Maharashtra, India.
2019 - 2021 : Master Degree (M.Sc. Mathematics), University of Madras,
Chennai, Tamil Nadu, India.
2011 - 2015 : Bachelor Degree (B.A. Mathematics), Al-Aqsa University,
Gaza, Palestine.

EXPERIENCE AND AREAS OF EXPERTISE

Teaching Mathematics, Fractional Calculus Theory and Applications, Hilfer-Type
Integro-Differential Equations, Mathematical Modeling of Biological Systems, Conformable
Fractional Derivatives, Boundary Value Problems.

PROFESSIONAL DEVELOPMENT & TRAINING

- **E-Teaching and Training Specialist Certificate, Arab Board for Consulting & Training (New Vision International), January 4-11, 2025 (30 Hours)**
Certificate No: ET/9813.
- **One-Week Hands-on STTP cum Workshop on ChatGPT and Advanced AI Tools for Accelerating Research and Publications, October 27, 2025 to Nonmember 01, 2025, Nuhianwali Education Society, Sirsa, Haryana (Online Mode).**
- **Three-Day National Training Program on Multidisciplinary, Interdisciplinary Research & Innovation for Holistic Development, March 6-8, 2025, Department of Education, Dr. Babasaheb Ambedkar Marathwada University Under PM-USHA (Pradhan Mantri Uchchatar Shiksha Abhiyan), Ministry of Education, Government of India.**
- **Three-Day Research Workshop on AI Tools for Researchers: Research Writing Strategies and Ethical Considerations, March 13-15, 2024, Nuhianwali Education Society, Sirsa, Haryana. (Online Mode)**
- **Five-Day Virtual Workshop on Research Paper Writing and Publishing Skills for SCOPUS and SCI Journals, January 16-20, 2023, Nuhianwali Education Society, Sirsa, Haryana. Certificate No: NPS/WP/RPWS/2023/2372.**
- **Springer Nature Author Workshop, Knowledge Resource Center (Library), November 30, 2022, Dr. Babasaheb Ambedkar Marathwada University.**
- **Five-Day Online FDP on Differential Equations Division of Mathematics, June 12-16, 2023, School of Advanced Sciences, Vellore Institute of Technology, Chennai**
- **Human Rights Education for University Students. Al Dameer Association for Human Rights, Gaza, Palestine \ 20 Hours Training (2013), Project: Promoting Human Rights in Gaza (Supported by the National Endowment for Democracy)**
- **Yoga and Wellness, 16th Maharashtra State Yoga Conference, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar \ Department of Yoga Shastra in association with Bruhan Maharashtra Yoga Parishad \ 29-30 November & 1 December 2024**

TECHNICAL SKILLS

1. **Mathematical Software:** MATLAB, Mathematica, LaTeX.
2. **Programming:** Basic Programming for Numerical Simulations.
3. **Research Tools:** Reference Management, Academic Writing, Data Analysis.
4. **Digital Tools:** AI-powered Research tools, E-Learning Platforms.
5. **Languages:** English (Fluent), Arabic (Native), Hindi (Conversational).

PRESENTATIONS & CONFERENCES

1. **Nonlinear Fractional Modeling of HIV Infection with Stem Cell Transplantation: Stability and Numerical Observations**, National Conference on Nonlinear Analysis and Applications (NCNAA-25), January 30-31, 2025, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar, India.
2. **A Fractional Order Model of HIV Dynamics Post Stem Cell Transplantation: Insights from Conformable Fractional Derivatives and LC Operators**, National Conference on Emerging Trends in Physics and Mathematics (ETPM- 2024), September 5, 2024, Department of Physics & Mathematics in Collaboration with IAPT RC 08F, Anand Charitable Sanstha, Ashti's, Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada Tal, Ashti Dist. Beed, Maharashtra, India.
3. **BVP for Generalized Hilfer Integro-Differential Equation with Positive Constant Coefficient**, International Conference on Fractional Calculus: Theory, Applications and Numerics (ICFCTAN), January 27-29, 2023, National Institute of Technology Puducherry, Karaikal (Virtual Mode).
4. **The Generalized Hilfer-Type Integro-Differential Equation With Boundary Condition**, International Conference on Mathematics, Statistics and Applied Science (ICMASTAS-22), August 13, 2022, Pune, India.

ARTICLE IN ACADEMIC JOURNAL

1. Alkord, M. N., Shaikh, S. L., & Altalla, M. B. (2024). ON A TYPE OF DIFFERENTIAL CALCULUS IN THE FRAME OF GENERALIZED HILFER INTEGRO-DIFFERENTIAL EQUATION. *Nonlinear Functional Analysis and Applications*, 83-98.
2. Alkord, M. N., & Shaikh, S. L. (2024). BVP for generalized Hilfer integrodifferential equation with positive constant coefficient. *International Journal of Dynamics and Control*, 12(1), 107-114.
3. Alkord, M. N., Shaikh, S. L., Redhwan, S. S., & Abdo, M. S. (2023). Qualitative analysis for fractional-order nonlocal integral-multipoint systems via a generalized Hilfer operator. *Nonlinear Functional Analysis and Applications*, 537-555.
4. Latif, S. S., Malik, M. A., Zabeeh, M. M. M., & Alkord, M. (2022). MATHEMATICAL MODELLING OF GROUND WATER FLOW IN POROUS MEDIA. *ECOCONSCIOUS EXPLORATIONS-A MULTIDISCIPLINARY APPROACH*, 164.
5. Alkord, M. N., Shaikh, S. L., & Redhwan, S. S. (2022). The Generalized Hilfer-Type Integro-Differential Equation with Boundary Condition. *Math. Stat. Eng. Appl*, 71(4), 4639-4654.
6. Altalla, M. B., Shanmukha, B., El-Ajou, A., & Alkord, M. N. (2024). Taylors series in terms of the modified conformable fractional derivative with applications. *Nonlinear Functional Analysis and Applications*, 435-450.
7. Eid, H. A. A., & Alkord, M. N. (2024). IMPACT OF FRACTIONAL CONFORMABLE DERIVATIVES ON A (H1N1) INFECTION MODEL. *Nonlinear Functional Analysis and Applications*, 597-620.

REFERENCES

Dr. Sadikali L. Shaikh Professor & Head Department of Mathematics, Maulana Azad College of Arts, Science and Commerce, Aurangabad, Maharashtra, India. Email: sad.math@gmail.com Mobile No.: 00919168884555	Dr . Asma'a A. Al Derbashy Associate Professor Department of Education, Alaqsa University, Gaza, Palestine. Email: aa.alderbashy@alaqsa.edu.ps Mobile No.: 0097 05973 03177
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