Abdulhafeez A. Abdulsalam

Graduate Student

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Education

Diploma in Mathematics	2024-2025	The Abdus Salam International Centre for Theoretical Physics (ICTP)
Bachelor of Science (**Mathematics**) CGPA: 3.68/4.00	First Class Honours April, 2024	University of Ibadan Ibadan, Nigeria
West African Examinations Council (High School Diploma)	2018	Great Everlee College Ikorodu, Lagos, Nigeria

Theses

ICTP Diploma Thesis (2025):	Discrete Maximal Functions	The Abdus Salam ICTP
Diploma Supervisor:	Dr. Emanuel Carneiro	
Undergraduate Thesis (2024):	Symmetric Functions	University of Ibadan Ibadan, Nigeria
Undergraduate Supervisor:	Dr. Praise Adeyemo	

Fellowships and Honors

2022   Spirit of Ramanujan STEM Initiative Fellow

Experience and Leadership

2024-25   Student Representative for the Mathematics Section and Speaker for Diploma Students at the Abdus Salam International Centre for Theoretical Physics (ICTP)

Academic Awards

2024   Dean's Roll of Honour recipient for the 2021/2022 academic session

Journal Articles

1. "New identities for the Laplace transform and their applications," with Ammar K. Mohammed, *Integral Transforms and Special Functions*, 1–25, DOI:10.1080/10652469.2024.2429142, 2024.
2. "New closed forms for a dilogarithmic integral, related integrals, and series," *Scientia, Series A: Mathematical Sciences*, **35**, revistas.usm.cl, 2025.
3. "A new approach to evaluating Malmsten's integral and related integrals," arXiv:2204.01021 (accepted November 20th, 2023, *Proceedings of the 16th International Symposium on Orthogonal Polynomials, Special Functions and Applications*), 2022.

Seminar Talks

1. "Fourier sine and cosine transforms of expressions with nested square roots," Abdulhafeez A. Abdulsalam, May 08, 2025, *Seminar Series: Topics in Special Functions and Number Theory*, PDF, YouTube.

Conference Presentatations

1. "New closed forms for a dilogarithmic integral, related integrals, and series," Abdulhafeez A. Abdulsalam, May 08, 2024, Parallel Session 3, 41st Annual Conference of the Nigerian Mathematical Society hosted by the Department of Mathematics, University of Ibadan, Ibadan, Nigeria.

2. "Connections between harmonic numbers and the zeta functions," Abdulhafeez A. Abdulsalam, January 08-12, 2024, Contributed Talks, Mini-course on moduli spaces and group actions at Workshop "Equivariant methods in geometry," Department of Mathematics, University of Ibadan, Ibadan, Nigeria.

3. "A new approach to evaluating Malmsten's integral and generalizations with Stirling polynomials," Abdulhafeez A. Abdulsalam, July 03-07, 2023, Short Talks at Workshop "Algebra, Topology and Applications," Department of Mathematics, University of Ibadan, Ibadan, Nigeria.

4. "A new approach to evaluating Malmsten's integral and related integrals," Abdulhafeez A. Abdulsalam, June 13-17, 2022, General Session, 16$^{\text{th}}$ International Symposium on Orthogonal Polynomials, Special Functions and Applications: Dedicated to the memory of Richard Askey, Centre de Recherches Mathématiques, Université de Montréal, Montréal, Quebec, Canada.

Summer Schools

1. **Mathematics in Ljubljana**, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia, *(June 30–July 04, 2025)*, *Certificate*.

Volunteer Work

1. Volunteer for the **ICTP 60th Anniversary**, November 15, 2024.

2. Supported the "UI ODE-Integration Bee 2.0" in November 2024, inspired by the annual MIT Integration Bee tradition, and contributed to providing cash prizes for the winners.

3. "An introductory approach to LATEX typesetting," Abdulhafeez A. Abdulsalam, June 03-06, 2024, Laboratory for Interdisciplinary Statistical Analysis, University of Ibadan, Ibadan, Nigeria, PDF.

4. Facilitated and organised the "UI ODE-Integration Bee" in February 2024, inspired by the annual MIT Integration Bee tradition, and secured sponsorships to award cash prizes to winners.

5. "Introduction to Special Functions (Gamma Function)," Abdulhafeez A. Abdulsalam, October 2, 2023, an introductory lecture to students enthusiastic about special functions, PDF, YouTube.

6. "An introductory approach to LATEX typesetting," Abdulhafeez A. Abdulsalam, July 21, 2023, in collaboration with AI Saturdays, Ibadan, University of Ibadan, Ibadan, Nigeria, PDF, YouTube.