

# CURRICULUM VITAE

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## EXPERIENCE

Research: Experience in research work in complex and Clifford analysis, group convolutions and pseudodifferential operators on Lie groups and  $C^*$ -algebras generated by them; harmonic and microlocal analysis; quantum mechanics and foundations of physics; interaction between harmonic analysis, physics, and combinatorics; foundation of geometry; mathematical simulation of natural and social processes; research software engineering.

EMPLOYMENT:	2004 – now	Reader	University of Leeds
	1999 – 2004	Research Fellow	University of Leeds
	1992 – 1998	Assistant	<a href="#">Odessa State University</a>
	1996 – 1997	PostDoc Position	<a href="#">Gent University</a>
	1993 – 1995	Visiting Professor	CINVESTAV del IPN (Mexico)

EDUCATION:	1989 – 1992	certificate	<a href="#">Odessa State University</a> , Postgraduate course
	1982 – 1989	diploma with honors	<a href="#">Odessa State University</a> , Department of Mathematics
	1971 – 1982	certificate	Secondary (10-year) School

QUALIFICATION:	1992	Ph.D.	Physics and Mathematics
	1989	M.Sc.	Mathematician, Teacher of Mathematics

LANGUAGES:	Russian	(mother tongue)
	English	(fluent)

PUBLICATIONS: One research monograph and more than 80 research publications in international editions. The [List of Publications](#) is enclosed.

## ADVANCED COURSES:

2000	<a href="#">Spaces of Analytical Functions and Wavelets</a> , Univ. of Coimbra, (Portugal)
2000	<a href="#">Special Functions and Their Symmetries</a> , Univ.of Leeds, (England)
2008	<a href="#">Erlangen Programme at Large</a> , Univ.of Leeds, (England)
2010	<a href="#">Group Representations and Analytic Functions</a> , Minsk, (Belarus)
2010–20	<a href="#">Erlangen program in geometry and analysis: <math>SL(2, \mathbb{R})</math> case study</a> , EPSRC-funded distant learning PG course—MAGIC (England)
2011–21	<a href="#">The Heisenberg group in mathematics and physics</a> , EPSRC-funded distant learning PG course—MAGIC (England)

- 2016 [Geometry, Integrability and Quantization](#), Varna (Bulgaria)
- 2016 Global Initiative for Academic Networks—GIAN, Kharagpur (India)
- 2018 [Srödinger Group: a Survival Pack for Everyone](#), Varna (Bulgaria)

POSTGRADUATE STUDENTS:

- 2004 Alastair Brodlie, [Relationships Between Quantum and Classical Mechanics using the Representation Theory of the Heisenberg Group](#).
- 2006 Debapriya Biswas, thesis Geometry of elliptic, parabolic and hyperbolic homogeneous spaces using Clifford algebras and group representations
- 2012 Abdelhamid Salem A El Mabrok, thesis Operators in complex analysis and the affine group
- 2014 Souad Ahmed Ali Abumaryam, thesis Numerical and Symbolic Aspects of Harmonic Analysis
- 2016 Amer Hassan A. Albargi, thesis Covariant Transforms on Locally Convex Spaces
- 2016 Steven Trotter, thesis Involutive Algebras and Locally Compact Quantum Groups
- 2018 Khawlah Ali Mustafa, thesis One-parameter Groups of Möbius Maps in Two-Dimensional Real Commutative Algebra
- 2018 Richard Arthur James Whyman, thesis Characterising Computational Devices with Logical Systems
- 2019 Fadhel Almalki, thesis Geometrical Dynamics by the Schrödinger Equation and Coherent States Transform
- 2019 Amerah Alameer, thesis Singularities of Analytic Functions and Group Representations
- 2022 Amjad Saleh M Alghamdi, thesis Representation Theory for the Group  $SL(2, \mathbb{R})$
- 2022 Dale Richard Hodgson, thesis A contextual deterministic stochastic model for quantum mechanics
- 2023 Taghreed Abdulghani Alqurashi, thesis Properties and Applications of the Semi-direct Product of the Heisenberg Group and the Affine Group
- 2023 Fatimah Abdullah A Alabbad, thesis Decomposition of the unitary representation of  $SU(1, 1)$  on the unit disk into irreducible components

POSTDOCTORAL FELLOW:

- 2004 Dr. Gong Yafang
- 2019 Dr. Arash Ghaani Farashahi

SOFTWARE DEVELOPMENT

- [MoebInv](#) C++ libraries for symbolic, numeric and graphical manipulations in non-Euclidean geometry
- [Yaglom](#) Interactive Geometry Package for non-Euclidean geometry