

Yassine Ait Mohamed

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Research interests	Derivation theory on graded rings, algebraic geometry, Lie groups and Lie algebroids, topological quantum field theories (TQFTs), shifted symplectic geometry, Poisson geometry.	
Education	Ph.D. in Mathematics University of Sherbrooke, Sherbrooke, Canada <i>Thesis topic: Poisson structures, shifted symplectic geometry, Lie algebroids and groupoids</i> Advisor: Prof. Maxence Mayrand	2024-present
	Ph.D. Studies (first year) Sidi Mohamed Ben Abdellah University, Fez, Morocco Program: Noncommutative algebra Advisor: Prof. Lahcen Oukhtite	2022-2023
	M.Sc. in Mathematics Sidi Mohamed Ben Abdellah University, Fez, Morocco <i>Divisors in Algebraic Geometry, Central Simple Algebras and Severi-Brauer Varieties</i> Advisor: Prof. Karim Mounirh	2020-2022
	B.Sc. in Mathematics Moulay Ismail University, Meknes, Morocco <i>The Spectrum and the Jacobson Radical in a Commutative Ring</i> Advisor: Prof. Chahrazade Bakkari	2016-2020
Publications	[1] Y. Ait Mohamed, <i>Degree-Preserving Derivations on Graded Rings and Modules</i> . Submitted. [2] Y. Ait Mohamed, <i>Generalized Homogeneous Derivations on Graded Rings</i> . <i>Siberian Mathematical Journal</i> (to appear). arXiv:2412.17187 [3] Y. Ait Mohamed, <i>On Graded Rings with Homogeneous Derivations</i> . <i>Revista de la Unión Matemática Argentina</i> . doi: 10.33044/revuma.4934	
Notes	Y. Ait Mohamed, <i>Note on Central Simple Algebras and the Brauer Group</i> . [PDF] Y. Ait Mohamed, <i>Note on Sheaf Theory</i> . [PDF]	
Master's thesis	<i>Divisors in Algebraic Geometry, Central Simple Algebras and Severi-Brauer Varieties</i> . M.Sc. thesis, Sidi Mohamed Ben Abdellah University (2022). [PDF]	
Fellowships and awards	ISM Doctoral Scholarship Guaranteed Doctoral Funding, University of Sherbrooke National Doctoral Scholarship, Morocco	2024-2026 2024-2028 2022-2023

	National Master's Scholarship, Morocco	2020-2022
	National Undergraduate Scholarship, Morocco	2016-2020
Invited talks and seminars	[1] <i>Poisson Structures on 1-Shifted Coisotropics</i>	November 2025
	SAG Seminar, University of Sherbrooke	
	[2] <i>On Bound Quivers</i>	November 2024
	MAT728 - Selected Topics in Algebra, University of Sherbrooke	
	[3] <i>Generalized Homogeneous Derivations on Graded Rings</i>	July 2023
	Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	
	[4] <i>On Graded Rings with Homogeneous Derivations</i>	April 2023
	Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	
	[5] <i>On Graded Rings and Derivations</i>	February 2023
	Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	
	[6] <i>On Graded Rings</i>	January 2023
	Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	
	[7] <i>Tensor Algebra and Enveloping Algebra of a Lie Algebra</i>	December 2021
	Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	
	[8] <i>On the Riemann-Roch Theorem</i>	November 2021
	Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	
	[9] <i>Action of a Lie Group on a Smooth Manifold</i>	February 2021
	Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	
Professional service	<i>Seminar Organization</i>	
	Organizer, Junior Seminar in Geometry and Mathematical Physics	
	2025-present	
	<i>Research Group</i>	
	Member of SAG -Algebraic and Geometric Structures , University of Sherbrooke.	
Teaching experience	Teaching Assistant , University of Sherbrooke	2024–present
	Analysis I (MAT129)	Winter 2026
	Elements of Algebra (MAT141)	Fall 2025
	Applied Linear Algebra in Computer Science (MAT199)	Fall 2025
	Linear Algebra (MAT253)	Winter 2025
	Differential and Integral Calculus I (MAT194)	Fall 2024
	Mathematics Help Center	Fall 2024
	Mathematics Tutor	2017-2023
	Algebra, real and complex analysis, topology. Private tutoring and teaching centers in Meknes and Fez, Morocco.	
Languages	Tamazight (native), Arabic (fluent), French (intermediate), English (reading and writing).	