

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 2024–present

University of Sherbrooke, Sherbrooke, Canada

Thesis topic: Poisson structures, shifted symplectic geometry, Lie algebroids and groupoids

Advisor: Prof. [Maxence Mayrand](#)

Ph.D. Studies (first year) 2022–2023

Sidi Mohamed Ben Abdellah University, Fez, Morocco

Program: Noncommutative algebra

Advisor: Prof. [Lahcen Oukhtite](#)

M.Sc. in Mathematics 2020–2022

Sidi Mohamed Ben Abdellah University, Fez, Morocco

Divisors in Algebraic Geometry, Central Simple Algebras and Severi–Brauer Varieties

Advisor: Prof. [Karim Mounirh](#)

B.Sc. in Mathematics 2016–2020

Moulay Ismail University, Meknes, Morocco

The Spectrum and the Jacobson Radical in a Commutative Ring

Advisor: Prof. [Chahrazade Bakkari](#)

Publications

[1] Y. Ait Mohamed, *Degree-Preserving Derivations on Graded Rings and Modules*.

Submitted.

[2] Y. Ait Mohamed, *Generalized Homogeneous Derivations on Graded Rings*.

Siberian Mathematical Journal (to appear). [arXiv:2412.17187](#)

[3] Y. Ait Mohamed, *On Graded Rings with Homogeneous Derivations*.

Revista de la Unión Matemática Argentina. [doi:10.33044/revuma.4934](#)

Notes

[1] Y. Ait Mohamed, *Hamiltonian Spaces and Reduction for Lie Groupoids*.

[\[PDF\]](#)

[2] Y. Ait Mohamed, *Note on Central Simple Algebras and the Brauer Group*.

[\[PDF\]](#)

[3] Y. Ait Mohamed, *Note on Sheaf Theory*.

[\[PDF\]](#)

Master's thesis

Divisors in Algebraic Geometry, Central Simple Algebras and Severi–Brauer Varieties.

M.Sc. thesis, Sidi Mohamed Ben Abdellah University (2022).

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Fellowships and awards

ISM Doctoral Scholarship

2024–2026

	Guaranteed Doctoral Funding, University of Sherbrooke	2024–2028
	National Doctoral Scholarship, Morocco	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	
Teaching experience	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).	