

Yassine Ait Mohamed

Curriculum Vitae

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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

Thesis: *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

Thesis: *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, *Note on Central Simple Algebras and the Brauer Group*.
[\[PDF\]](#)
- [2] 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> SAG Seminar, University of Sherbrooke	November 2025
[2] <i>On Bound Quivers</i> MAT728 – Selected Topics in Algebra, University of Sherbrooke	November 2024
[3] <i>Generalized Homogeneous Derivations on Graded Rings</i> Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	July 2023
[4] <i>On Graded Rings with Homogeneous Derivations</i> Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	April 2023
[5] <i>On Graded Rings and Derivations</i> Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	February 2023
[6] <i>On Graded Rings</i> Seminar on Noncommutative Algebra, Faculty of Science and Technology, Fez	January 2023
[7] <i>Tensor Algebra and Enveloping Algebra of a Lie Algebra</i> Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	December 2021
[8] <i>On the Riemann–Roch Theorem</i> Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	November 2021
[9] <i>Action of a Lie Group on a Smooth Manifold</i> Seminar on Geometry and Algebra, Faculty of Science, Dhar El Mahraz	February 2021

Professional Service

Seminar Organization

Organizer, Junior Seminar in Geometry and Mathematical Physics	2025 – present
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Peer Review

Referee for: *Asian Research Journal of Mathematics* (2025, 2026), *Proceedings of the International Geometry Center* (2025), *International Journal of Neutrosophic Science* (2025).

Research Group

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).