

# 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

<b>Ph.D. in Mathematics</b>	2024 – present
University of Sherbrooke, Sherbrooke, Canada	
Thesis topic: Poisson structures, shifted symplectic geometry, Lie algebroids and groupoids	
Advisor: Prof. Maxence Mayrand	
<b>Ph.D. Studies (first year)</b>	2022 – 2023
Sidi Mohamed Ben Abdellah University, Fez, Morocco	
Program: Noncommutative algebra	
Advisor: Prof. Lahcen Oukhtite	
<b>M.Sc. in Mathematics</b>	2020 – 2022
Sidi Mohamed Ben Abdellah University, Fez, Morocco	
Thesis: <i>Divisors in Algebraic Geometry, Central Simple Algebras and Severi-Brauer Varieties</i>	
Advisor: Prof. Karim Mounirh	
<b>B.Sc. in Mathematics</b>	2016 – 2020
Moulay Ismail University, Meknes, Morocco	
Thesis: <i>The Spectrum and the Jacobson Radical in a Commutative Ring</i>	
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*.  
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## Master's Thesis

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*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

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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

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[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

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### Seminar Organization

Organizer, [Junior Seminar in Geometry and Mathematical Physics](#) 2025 – present

### 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

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<b>Teaching Assistant</b> , 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

<b>Mathematics Tutor</b>	2017 – 2023
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Algebra, real and complex analysis, topology.  
Private tutoring and teaching centers in Meknes and Fez, Morocco.

## Languages

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Tamazight (native), Arabic (fluent), French (intermediate), English (reading and writing).

Last updated: January 2026