Division of Science and Mathematics New York University Abu Dhabi P.O. Box 129188, Abu Dhabi United Arab Emirates qe209@nyu.edu Birthdate: 25th April 1996 French Citizenship



Quentin Ehret

	Academic Positions
	Post-doctoral researcher , Supervisor: Sofiane Bouarroudj Division of Sciences, New York University Abu Dhabi, Abu Dhabi (United Arab Emirates)
	PhD Student , Supervisor: Abdenacer Makhlouf Institut de Recherche en Informatique, Mathématiques, Automatique et Signal (IRIMAS), Université de Haute-Alsace, Mulhouse (France)
	Education
February 2024	Qualification aux fonctions de Maître de Conférences, French national scientific qualification as associate Professor, Section 25.
	PhD in Mathematics , <i>Study and Deformations of Lie-Rinehart (Super)algebras in Positive Characteristic</i> , Supervisor: Abdenacer Makhlouf Institut de Recherche en Informatique, Mathématiques, Automatique et Signal (IRIMAS), Université de Haute-Alsace, Mulhouse (France)
2019 - 2020	Master's Degree in Science and Technology, Fundamental Mathematics UFR de Mathématique et d'Informatique, Strasbourg (France)
2019	Agrégation of Mathematics , <i>Competitive secondary-school and university teaching degree</i>
2017 - 2019	Master's Degree in Science and Technology, Agregation of Mathematics UFR de Mathématique et d'Informatique, Strasbourg (France)
2016 - 2017	Bachelor's Degree in Science and Technology , <i>Mathematics</i> UFR de Mathématique et d'Informatique, Strasbourg (France)
2014 - 2016	Preparatory Class , Mathematics, Physics and Engineering (MPSI-MP) Lycée Kléber, Strasbourg (France)
	Preprints
Preprint 5.	S. Bouarroudj, Q. Ehret, Double extensions of quasi-Frobenius Lie superalgebras with degenerate center, arXiv:2405.12128, May 2024
Preprint 4.	S. Bouarroudj, Q. Ehret, Central extensions of restricted Lie superalgebras and classification of p-nilpotent Lie superalgebras in dimension 4, arXiv:2401.08313, January 2024
Preprint 3.	Q. Ehret, A. Makhlouf, Deformations and Cohomology of restricted Lie-Rinehart algebras in positive characteristic, arXiv:2305.16425, May 2023
	Publications
Journal paper 2.	S. Bouarroudj, Q. Ehret, Y. Maeda, Symplectic double extensions for restricted quasi-Frobenius Lie (super)algebras, SIGMA 19 (2023), 070, 29 pages
Journal paper 1.	Q. Ehret, A. Makhlouf , On classification and deformations of Lie-Rinehart superalgebras, Communications in Mathematics 30 (2022), no. 2, 67–92.
	Talks and Communications

April 2024 Seminar, Restricted Lie algebras in characteristic p = 2, NYUAD Math Post-Doc Day New York University Abu Dhabi (United Arab Emirates) Seminar, Central extensions of restricted Lie superalgebras and classification of p-nilpotent March 2024 Lie superalgebras in dimension 4 IRIMAS, Département de Mathématiques, Mulhouse (France) **Conference**, Central extensions of restricted Lie superalgebras and classification of p-February 2024 nilpotent Lie superalgebras in dimension 4, VII International Workshop on Non-Associative Algebras University of Salento, Lecce (Italy) January 2024 Seminar, Central extensions of restricted Lie superalgebras and classification of p-nilpotent Lie superalgebras in dimension 4, GTP Seminar New York University Abu Dhabi (United Arab Emirates) June 2023 Short communication, Study and Deformations of Lie-Rinehart (Super)algebras in Positive Characteristic, PhD Students Day 2023 Université de Haute-Alsace, Mulhouse (France) April 2023 Conference, Symplectic double extensions for restricted quasi-Frobenius Lie (super)algebras, Euro-Maghreb Conference in Algebra, Geometry and Lie Theory Sousse (Tunisia) March 2023 PhD Seminar, Restricted structures on the Heisenberg algebra, PhD seminar of the **IRMA** Institute Institut de Recherche Mathématique Avancée, Strasbourg (France) January 2023 PhD Seminar, Algebraic structures emerging from genetic inheritance, PhD seminar of the IRIMAS Institute IRIMAS, Mulhouse (France) December 2022 **Seminar**, Chevalley-Eilenberg cohomology and deformations of Lie algebras in positive characteristic. Institute of Mathematics and Statistics of Tartu (Estonia) October 2022 Conference, Deformations of Lie-Rinehart (super)algebras, IV International Workshop on Non-Associative Algebras University of Beira Interior, Covilhã (Portugal) September 2022 Conference, Lie-Rinehart (super)algebras, Conference New Trends in Hopf Algebras and Monoidal Categories University of Torino (Italy) June 2022 Conference, Lie-Rinehart (super)algebras, Conference of differential geometry, contact geometry, dynamical systems and beyond, in memory of Robert Lutz IRIMAS, Département de Mathématiques, Mulhouse (France) March 2022 Seminar, Cohomology and Deformations of restricted Lie Algebras in positive Characteristic IRIMAS, Département de Mathématiques, Mulhouse (France) February 2022 PhD Seminar, A Survey about Deformations of Lie Algebras, PhD seminar of the IRMA Institute Institut de Recherche Mathématique Avancée, Strasbourg (France) November 2021 **Poster**, On classification and deformations of Lie-Rinehart superalgebras, Research School Higher Structures Emerging from Renormalisation Erwin Schrödinger Institute, Vienna (Austria) November 2021 Talk in a workshop, Birkhoff Theorem and Optimal Transport, Optimal Transport Workshop IRIMAS, Mulhouse (France) May 2021 Talk in a workshop, About the Grothendieck Group K_0 , K-Theory Workshop Institut de Recherche Mathématique Avancée, Strasbourg (France) Participation in Conferences and Research Schools (without a talk)

March 2024	Conference , <i>UAE Math Day</i> , Annual meeting of the mathematicians of the UAE, (Organizer) New York University Abu Dhabi, United Arab Emirates
November 2023	Conference , <i>SICMS23</i> , Sharjah International Conference on Mathematical Sciences University of Sharjah, United Arab Emirates
June 2023	Conference , <i>MAThEOR Days</i> , Annual meeting of the PhD Students of Region Alsace and surroundings, (Organizer) Sewen, France
April 2023	Research School , <i>Higher Structures in Geometry and Mathematical Physics</i> Centre International de Rencontres Mathématiques (CIRM), Luminy (France)
	Workshop, Associators, Categories and Multizetas values IRIMAS, Mulhouse (France)
November 2022	Conference , <i>GDR</i> Renormalisation Annual Meeting 2022 : Hopf Algebras and Applications Université du Littoral Côte d'Opale, Calais (France)
July 2022	Conference , Hopf algebras, monoidal categories and related topics Simion Stoilow Institute of Mathematics of the Romanian Academy, Bucarest (Romania)
March 2022	Conference , Les sciences dans tous les sens : sœurs jumelles ou sœurs ennemies ? Université de Haute-Alsace, Mulhouse (France)
November 2021	Research School , <i>Higher Structures Emerging from Renormalisation</i> Erwin Schrödinger Institute, Vienna (Austria)
June 2021	Research School , Symplectic Structures in Mathematics and Applications to Control Theory (remotely) Hassan II University, Casablanca (Morocco)
	Teaching
	Teaching
Spring 2024	Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory) New York University Abu Dhabi (United Arab Emirates)
Spring	Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory)
Spring 2021-2022-2023 Spring	 Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory) New York University Abu Dhabi (United Arab Emirates) Lecturer, Linear Algebra and Geometry, 3 × 28h, First year of Engineering School ENSCMU and ENSISA
Spring 2021-2022-2023 Spring 2021-2022-2023 Fall	 Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory) New York University Abu Dhabi (United Arab Emirates) Lecturer, Linear Algebra and Geometry, 3 × 28h, First year of Engineering School ENSCMU and ENSISA Université de Haute-Alsace, Mulhouse (France) Lecturer, Real Analysis, 3 × 16h, First year of Engineering School ENSISA
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Spring 2021-2022-2023 Spring 2021-2022-2023 Fall 2020-2021-2022	 Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory) New York University Abu Dhabi (United Arab Emirates) Lecturer, Linear Algebra and Geometry, 3 × 28h, First year of Engineering School ENSCMU and ENSISA Université de Haute-Alsace, Mulhouse (France) Lecturer, Real Analysis, 3 × 16h, First year of Engineering School ENSISA Université de Haute-Alsace, Mulhouse (France) Lecturer, Numerical Analysis, 3 × 20h, Second Year of Engineering School ENSISA Université de Haute-Alsace, Mulhouse (France)
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Spring 2021-2022-2023 Spring 2021-2022-2023 Fall 2020-2021-2022 July 2024 June 2024	 Recitations, Algebra 2, (Rings, Fields, Field Extensions, Galois Theory) New York University Abu Dhabi (United Arab Emirates) Lecturer, Linear Algebra and Geometry, 3 × 28h, First year of Engineering School ENSCMU and ENSISA Université de Haute-Alsace, Mulhouse (France) Lecturer, Real Analysis, 3 × 16h, First year of Engineering School ENSISA Université de Haute-Alsace, Mulhouse (France) Lecturer, Numerical Analysis, 3 × 20h, Second Year of Engineering School ENSISA Université de Haute-Alsace, Mulhouse (France) Ceturer, Numerical Analysis, 3 × 20h, Second Year of Engineering School ENSISA Université de Haute-Alsace, Mulhouse (France) Other activities Member of an Organizing Committee, MAThEOR Days 2, Conference of PhD students and young researchers of Alsace and surroundings Université de Haute-Alsace, Mulhouse (France) Member of an Organizing Committee, Conference of Algebra and Deformations Université de Haute-Alsace, Mulhouse (France) Member of an Organizing Committee, Math Day 2024, Annual meeting of mathe- maticians of the UAE

June 2022	Member of an Organizing Committee, Conference of Differential Geometry, Contact Geometry, Dynamical Systems and beyond, in memory of Robert Lutz Université de Haute-Alsace, Mulhouse (France)
March 2022	Popular Science , Math workshop in a Primary School, (2h) Ecole primaire d'Uffholtz (France)
- September	Elected Representative , for doctoral students of the University of Haute-Alsace on the board of the Doctoral School, ED 269 (MSII) Mulhouse and Strasbourg (France)
2021-2022	Popular Science , <i>Math workshop in High School</i> , MATh.en.JEANS, (6 months) Lycée Scheurer-Kestner, Thann (France)
	Various skills
Languages	French (Mother tongue), English (professional and colloquial), German (Inter- mediate), Arabic (basic notions)
Programming	LATEX, Python, Mathematica, html (beginner)
	Other
Hobbys	Electric guitar, amateur songwriter, hiking, reading, history & prehistory, painting.
	References
	Prof. Abdenacer Makhlouf , <i>PhD Thesis supervisor</i> , University of Haute-Alsace, France, abdenacer.makhlouf@uha.fr
	Prof. Sofiane Bouarroudj , <i>Post-doc supervisor</i> , New York University Abu Dhabi, United Arab Emirates, sofiane.bouarroudj@nyu.edu
	Prof. Vyacheslav Futorny , <i>Collaborator</i> , Shenzhen International Center for Mathematics, China, vfutorny@gmail.com
	Prof. Martin Bordemann, Colleague, University of Haute-Alsace, France, martin.bordemann@uha.fr

More informations can be found on my webpage: https://perso.matheor.com/quentin-ehret/