Olivier Haution

Informazioni personali

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Pagina personale	https://haution.gitlab.io
Indirizzo	Corso Emanuele Filiberto 55, 23900 Lecco, Italia
Stato civile	coniugato, 2 figlie (nate 2017, 2019)
Lingue	francese, inglese, tedesco, italiano

Esperienze professionali

2023–oggi	Professore associato (MAT/03), Università di Milano-Bicocca
2018–2023	Heisenberg position, LMU München
2022–2022	Professore ad interim (W3), TU München
2020–2021	Professore ad interim (W2), LMU München
2012–2018	Assistente (akademischer Rat auf Zeit), LMU München
2010–2012	Ricercatore, University of Nottingham
2009–2010	Ricercatore (ATER à temps complet), Université Paris 6
2006–2009	Dottorando con incarico didattico (allocataire–moniteur), Université Paris 6
2005–2006	Tutore, École polytechnique

Titoli di Studio

2016	Abilitazione in matematica, LMU München (conseguita il 18/01/2016), "Integrality properties of algebraic cycles"
2006–2010	Dottorato di ricerca in matematica, Université Paris 6, "Steenrod operations and quadratic forms" (relatore: Nikita Karpenko, conseguito il 09/02/2010)
2005–2006	Master in matematica, École polytechnique
2002–2005	Ingénieur Polytechnicien program, École polytechnique

Progetti di ricerca, abilitazioni e premi

2021–2033	Abilitazione scientifica nazionale (01/A2), prima & seconda fascia.
2020–2023	DFG individual research grant "Intersection theory and cobordism with a quadratic twist", unico ricercatore principale (286.200 €)
2018–2023	DFG Heisenberg programme, unico ricercatore principale (620.600 €)
2016–2019	DFG individual research grant "New perspectives for canonical dimension", unico investigatore principale (14.400 €)
2006–2009	Borsa di dottorato "AMX" dal Ministero della Ricerca di Francia
2005	"Prix d'option scientifique" assegnato dall'École polytechnique per un tirocinio al Tata institute of fundamental research in Mumbai

Interessi di ricerca

Teorie motiviche, forme quadratiche, azioni di gruppi su schemi

Pre-pubblicazioni

- O. Haution, Actions of diagonalizable p-groups and Chern numbers modulo p, arXiv:2412.02483

Pubblicazioni

19. O. Haution, The geometric concentration theorem, **Advances in Mathematics**, 489 (2025), paper no. 110237

18. J. Fasel and O. Haution, The stable Adams operations on Hermitian K-theory, **Geometry and Topology**, 29 (2025), no. 1, 127–169

17. O. Haution, Odd rank vector bundles in eta-periodic motivic homotopy theory, **Journal of the Institute of Mathematics of Jussieu**, 24 (2025), no. 5, 1733–1764

16. O. Haution, Motivic Pontryagin classes and hyperbolic orientations, **Journal of Topology**, 16 (2023), no. 4, 1423–1474

15. O. Haution, On the algebraic cobordism ring of involutions, **Annales Scientifiques de l'École Normale Supérieure** (4) 56 (2023), no. 4, 981–1028

14. O. Haution and A. S. Merkurjev, Connective K-theory and Adams operations, **EMS Surveys in Mathematical Sciences**, 8 (2021), no. 1-2, 135–162

13. O. Haution, Involutions and Chern numbers of varieties, **Commentarii Mathematici Helvetici**, 95 (2020), no. 4, 811–843

12. O. Haution, Diagonalisable p-groups cannot fix exactly one point on projective varieties, **Journal of Algebraic Geometry**, 29 (2020), 373–402

11. O. Haution, Fixed point theorems involving numerical invariants, **Compositio Mathematica**, 155 (2019), no. 2, 260–288

10. O. Haution, Involutions of varieties and Rost's degree formula, **Journal für die reine und angewandte Mathematik (Crelle)**, 745 (2018), 231–252

9. O. Haution, On rational fixed points of finite group actions on the affine space, **Transactions of the American Mathematical Society**, 369 (2017), 8277–8290

8. O. Haution, Detection by regular schemes in degree two, **Algebraic Geometry**, 2 (2015), no. 1, 44–61

7. O. Haution, Invariants of upper motives, **Documenta Mathematica**, 18 (2013), 1555–1572

6. O. Haution, Duality and the topological filtration, **Mathematische Annalen**, 357 (2013), no. 4, 1425–1454

5. O. Haution, Degree formula for the Euler characteristic, **Proceedings of the American Mathematical Society**, 141 (2013), no. 6, 1863-1869

4. O. Haution, On the first Steenrod square for Chow groups,
American Journal of Mathematics, 135 (2013), no. 1, 53–63

3. O. Haution, Integrality of the Chern character in small codimension,
Advances in Mathematics, 231 (2012), no. 2, 855–878

2. O. Haution, Reduced Steenrod operations and resolution of singularities,
Journal of K-theory, 9 (2012), no. 2, 269–290

1. O. Haution, Lifting of coefficients for Chow motives of quadrics,
in Quadratic forms, linear algebraic groups, and cohomology,
volume 18 of **Developments in Mathematics**, 239-247, Springer, New York (2010)

Partecipazione come relatore a convegni

18. Conference "Motifs and Motives", giu. 2026, Monaco di Baviera

17. Conference "Motives in Mainz", mar. 2024, Mainz

16. Workshop "Motives and Invariants: Theory and Applications to Algebraic Groups and their Torsors", ott. 2023, Banff International Research Station

15. Summer school "Motives in Ratisbona", set. 2022, Regensburg (mini corso di 4 ore)

14. Workshop on birational geometry, nov. 2020, Higher School of Economics Moscow (online)

13. Workshop "Affine Algebraic Groups, Motives and Cohomological Invariants", set. 2018, Banff International Research Station

12. Workshop on motivic and equivariant homotopy theory, ott. 2017, Osnabrück

11. International Conference in K-theory, ago. 2016, Sydney

10. Workshop "Algebraic Cobordism and Projective Homogeneous Varieties", feb. 2016, Mathematisches Forschungsinstitut Oberwolfach

9. Workshop "The Use of Linear Algebraic Groups in Geometry and Number Theory", set. 2015, Banff International Research Station

8. Conference "(A)round forms, cycles and motives", set. 2014, Mainz

7. Workshop "Projective modules and A1-homotopy theory", mag. 2014, American Institute of Mathematics, Palo Alto

6. Workshop "Étale and motivic homotopy theory", mar. 2014, Heidelberg

5. Spring school and workshop on Torsors, Motives and Cohomological Invariants, May 2013, Field Institute, Toronto

4. Workshop "Lie Algebras, Torsors and Cohomological Invariants", ott. 2012, Banff International Research Station

3. Joint Mathematics Meetings AMS Special Session "Linear Algebraic Groups: Their Arithmetic, Geometry, and Representations", gen. 2012, Boston

2. Conference "Ramification in Algebra and Geometry at Emory", mag. 2011, Atlanta

1. Mini-course "Torsors and Geometry of Quadrics", giu. 2009, Lens

Supervisione

- Un post-doc: Fabio Tanania (2020–2023)
- Una tesi di laurea triennale "Nonsolvability of degree 5 equations" (2016)
- Referee per una tesi di dottorato all'Università di Parigi 13: "Isotropy of quadratic pairs" realizzata da A. W. Medhi (2026)

Soggiorni di ricerca (oltre due settimane)

- 2025, CAS visiting fellowship, Monaco, Germania (3 settimane)
- 2017, Istituto Mittag-Leffler, Stockholm, Svezia (2 settimane)
- 2006, Università di Bielefeld, Germania (3 mesi)
- 2005, TIFR Mumbai, India (3 mesi)

Organizzazione di convegni

- "Geometria in Bicocca", 2024, 2025
- "Quadratic forms and algebraic cycles", Paris, Ott. 2025
- Quinta edizione del ciclo "Crossings", Milan, Nov. 2025.

Servizio di insegnamento

Periodo	**Università**	**Posto**	**Servizio**	**Durata**
2023–oggi	Milano-Bicocca	Professore associato	120 ore annuali	in corso
2022–2023	LMU	"Heisenberg position"	—	1 anno
2022	TUM	Professore	9 ore settimanali	6 mesi
2021–2022	LMU	"Heisenberg position"	—	1 anno
2020–2021	LMU	Professore	9 ore settimanali	1 anno
2018–2020	LMU	"Heisenberg position"	—	1,5 anni
2012–2018	LMU	Assistente	5 ore settimanali	6 anni
2010–2012	Nottingham	Ricercatore	—	2 anni
2009–2010	Paris 6	Ricercatore	160 ore annuali	1 anni
2006–2009	Paris 6	Dottorando	64 ore annuali	3 anni
2005–2006	Polytechnique	Tutore	60 ore annuali	1 anni

Lezioni (come titolare del corso)

2025–2026	Matematica per l'insegnamento – algebra (LM biologia)
2025–2026	Algebra lineare e geometria (LT informatica)
2024–2025	Matematica per l'insegnamento – algebra (LM biologia)
2024–2025	Algebra lineare e geometria (LT informatica)
2023–2024	Algebra lineare e geometria (LT informatica)
2023–2024	Geometria complessa
2021–2022	Algebraic number theory
2021–2022	Exam preparation course in algebra for future teachers
2020–2021	Brauer groups of fields
2019–2020	Galois cohomology
2017–2018	Intersection theory
2016–2017	Homological methods in commutative algebra
2014–2015	Intersection theory
2013–2014	Local algebra

Seminari per studenti (come titolare del corso)

2020–2021	Reading course on étale cohomology
2019–2020	Number theory for future teachers
2018–2019	Topological data analysis
2015–2016	Quadratic forms and arithmetic
2014–2015	Brauer groups and Galois cohomology
2013–2014	Quadratic forms
2012–2013	Introduction to motivic cohomology and motives
2012–2013	Arithmetic

Esercitazioni

2025–2026	Geometria II
2024–2025	Geometria II
2023–2024	Geometria II
2023–2024	Algebra lineare e geometria (LT informatica)
2021–2022	Algebraic number theory
2020–2021	Brauer groups of fields
2019–2020	Galois cohomology
2017–2018	Intersection theory
2017–2018	Linear algebra I
2016–2017	Homological methods in commutative algebra
2016–2017	Algebraic geometry I
2016–2017	Algebraic geometry II
2015–2016	Algebra
2015–2016	Linear algebra II
2014–2015	Intersection theory
2014–2015	Algebraic geometry I
2014–2015	Algebraic geometry II
2013–2014	Local algebra
2013–2014	Linear algebra II
2012–2013	Linear algebra I
2012–2013	Linear algebra II
2009–2010	Linear algebra II
2009–2010	Arithmetic
2008–2009	Arithmetic
2007–2008	Arithmetic
2006–2007	Quadratic forms and geometry
2006–2007	Matrices for physics/chemistry students
2005–2006	Tutoraggio individuale, 60 ore (distributions, dynamical systems)

Data: 29 dicembre 2025