

Emmanuel Graff

Teacher-researcher in mathematics

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French nationality

University curriculum

- 2024-2026 **JSPS Postdoctoral Fellow**, *University of Tokyo*, Graduate School of Mathematical Sciences.
- 2023-2024 **Temporary Teaching and Research Assistant [ATER]**, *Université Grenoble-Alpes*, Institut Fourier.
- 2020-2023 **Mathematics PhD**, *Université Caen Normandie*, *Laboratoire de Mathématiques Nicolas Oresme*.
Link-homotopy in low dimensional topology
- 2019-2020 **Master's Degree of Research in Mathematics**, *Université Grenoble-Alpes*.
Topology and Algebraic Geometry
- 2018-2019 **Master's Degree in Mathematics Aggregation Preparation**, *Université Grenoble-Alpes*.
- 2017-2018 **Master's Degree in Fundamental Mathematics**, *Université Grenoble-Alpes*.
- 2014-2017 **Bachelor's Degree in Mathematics**, *Université Grenoble-Alpes*.

Experiences

Publication

Homotopy braid groups are torsion-free, arXiv id : 2405.04422.

- 07/2024 **On braids and links up to link-homotopy**, *Journal of the Mathematical Society of Japan*.

Talks

- 13/02/2024 **Talk**, *Workshop : Heegaard Floer homology*, Besse.
"Definition of Heegaard Floer homology"
- 13/11/2023 **Talk**, *Quantum topology days and Topology seminar*, Dijon.
"The homotopy braid group is torsion-free"
- 22/09/2023 **Talk**, *Topology seminar*, Grenoble.
"The homotopy braid group is torsion-free"
- 23/02/2023 **Talk**, *Winterbraid XII*, Tours.
"On braids and links up to link-homotopy."
- 09/01/2023 **Talk**, *Fourth meeting of AIMaRe*, Caen.
"About torsion in the homotopy braid groups"
- 18/05/2022 **Talk**, *Workshop : The finiteness conjecture for skein modules*, Matemale.
"Skein algebras as deformation quantization"
- 12/04/2022 **Talk**, *Workshop : Sliceness, exotic pairs, and quantum invariants*, Aussois.
"The Jones polynomial of ribbon links"
- 27/01/2022 **Doctoral seminar**, *LMNO*, Université de Caen-Normandie, Caen.
"The Jones polynomial with Kaufmann brackets"
- 24/06/2021 **short-Talk**, *Normandy Mathematics Federation Day*, Rouen.
About link-homotopy
- 02/06/2021 **Talk**, *Workshop Trisection and Thom conjecture*, Matemale.
"The only tight contact structure on S^3 is the standart one"
- 08/02/2021 **Talk**, *Workshop : Homological and Quantum Invariants*, Luminy.
"HOMFLY polynomial and configuration space"
- 21/10/2020 **Doctoral seminar**, *LMNO*, Université de Caen-Normandie, Caen.
"Regarding 4-component links up to link-homotopy"

Internships

- 01-06/2020 **Master's Degree Internship**, *Institut Fourier*, Grenoble.
"On the classification of links up to link-homotopy"
- 01-06/2018 **Supervised Research Work**, *Institut Fourier*, Grenoble.
"Division rings"
- 07-08/2016 **Excellence Internship**, *Université Grenoble-Alpes*, Grenoble.
"Spectral theory of the Laplacian on bounded domains of \mathbf{R}^n "

Teaching

- 03-06/2023 **Co-supervisor of internship**, *Université Caen Normandie*, Caen, France.

Year	Class	Title	Hours	Referring
2023-2024	L2-Math-Info	Series and Integration	36 h	Dietrich Hafner
	L1-Mathematics	Linear Algebra	96 h	Jean Fasel
2022-2023	L2-Miashs	Algebra	39 h	Christian Dogbe
		Mathematics Review	25 h	Francois Rioult
2021-2022	L1-Computer Science	Linear Algebra	20 h	Gilles Damane
	L1-Biology	Mathematical Tools	20 h	Bertrand Maillot
	L1-AES	Mathematics	24 h	Gilles Damane
2020-2021	L2-Mathematics	Linear Algebra	20 h	Eric Reyssat
	L1-Biology	Mathematical Tools	20 h	Bertrand Maillot
	L1-AES	Mathematics	24 h	Gilles Damane
	Total		324 h	

- 2014-2015 **Student tutor**, *Université de Grenoble Alpes*, Grenoble, France.
Support for third-year students