Swann Tubach

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Preprints

2024 **Artin motives in relative Nori and Voevodsky motives**, *https://arxiv.org/abs/2409.12841*

2024 **Nori motives (and mixed Hodge modules) with integral coefficients.**, *joint with Raphaël Ruimy*, https://arxiv.org/abs/2407.01462

2024 **Mixed Hodge modules on stacks.**, *https://www.arxiv.org/abs/2407.02256*

2024 **Étale motives of geometric origin.**, *joint with Raphaël Ruimy*, https://arxiv.org/abs/2405.07095

2023 **On the Nori and Hodge realisations of Voevodsky étale motives**, *https://arxiv.org/abs/2309.11999*

PhD Thesis

2022-2025 **PhD with Sophie Morel**, *at the UMPA, Lyon*, Relative Nori motives and realisation functors

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Scientific talks

October 2023 **Journées de rentrée de l'ANR HQDIAG**, *Grenoble*, Hodge and Nori realisations of Voevodsky étale motives.

November 2023 **Oberseminar: Algebraische Geometrie**, *Zürich*, Higher enhancements of Nori motives and realisation functors.

September 2024 **Arithmetic Geometry Seminar**, *Milan*, Higher enhancements of mixed Hodge modules.

Teaching

2024-2025 **TA at the ÉNS de Lyon**, *Teaching assistant for the exercise sessions of the classes* M1 Algèbre Avancée *(given by François Brunault)* and M1 Géométrie Algébrique *(given by Philippe Eyssidieux).*

12-16 july 2021 **TA at the PCMI summer school**, *Teaching assistant for Frédéric Déglise course* Orientation in motivic homotopy theory

Spring 2024 **Supervising the intership of a bachelor student**, *Mentored the student Bilal Bounajma for his EPFL bachelor project.*

2023-2024 **TA at the ÉNS de Lyon**, *Teaching assistant for the exercise sessions of the class* M1 Géométrie Algébrique *(given by Philippe Eyssidieux)*

2022-2023 **TA at the ÉNS de Lyon**, *Teaching assistant for the exercise sessions of the classes* L3 Algèbre 2 *(given by François Brunault)* and M1 Géométrie Algébrique *(given by Philippe Eyssidieux).*

Research Schools

12-16 july 2021	**Graduate Summer School at the PCMI**, *IAS*, Motivic Homotopy https://www.ias.edu/pcmi/2021-graduate-summer-school-course-descriptions
10-21 July 2023	**Summer School at the IHÉS**, *Recent Advances in Algebraic K-thory* https://indico.math.cnrs.fr/event/8837/
27-31 March 2023	**Research School at the CIRM**, *Condensed mathematics* https://conferences.cirm-math.fr/2871.html

Before the PhD.

March 2022–May 2022	**Internship at the IHÉS**, *with Joseph Ayoub*, Reading Simon Pépin Lehalleur's PhD thesis *Triangulated categories of relative 1-motives*
February 2022	**Intership in Milan**, *Italy*, with Joseph Ayoub, Reading Simon Pépin Lehalleur's PhD thesis *Triangulated categories of relative 1-motives*
11/09/2021– 21/12/2021	**Internship in Leiden**, *Netherland*, with Remy von Dobben de Bruyn, Reading on the proofs of the Weil conjecture (Weil II by Deligne, Kiehl-Weissauer's book), and on perverse sheaves (with the Beillinson-Berstein-Deligne)
Spring-Summer 2021	**M2 intership**, *with Sophie Morel*, Nori 1-motives, Readind the paper *Nori 1-motives* by Joseph Ayoub and Luca Barbieri Viale and the book *Periods and Nori motives* of A. Huber and S. Müller-Stach, and other paper on the subject
2019–2020	**M2**, *ENS de Lyon*, Advanced mathemathics master, Arithmetic Geometry cursus
2018–2019	**M1**, *ENS de Lyon*, Specializing in algebraic geometry and number theory
2017–2018	**L3**, *ENS de Lyon*, Mathematic bachelor
2017	**Admission to the ENS de Lyon**
2015–2017	**CPGE**, *Lycée Chaptal*, Paris, *Math sup/math spé*