
JULIE BANNWART

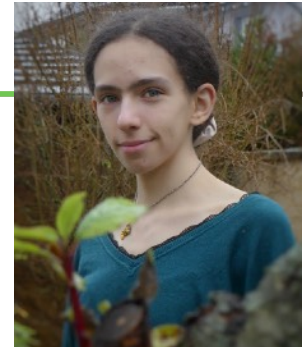
PERSONAL INFORMATION

Email address: [bannwart.julie\[at\]gmail.com](mailto:bannwart.julie[at]gmail.com)

Website: www.juliebannwart.com

University address:

Institut für Mathematik (FB 08)
Johannes Gutenberg-Universität
Staudingerweg 9
55128 Mainz, Germany



Date of birth: 12th July 2004

Nationality: French

Pronouns: she/her

EDUCATION

04/2025 –	PhD student in Mathematics , Johannes Gutenberg-Universität (JGU), Mainz, Germany. Advisor: Prof. Tom Bachmann.
09/2024 – 03/2025	Semester in JGU, Mainz, Germany, to write my Master's thesis : <i>On the real realization of the motivic spectrum ko</i> . Advisor: Prof. Tom Bachmann.
09/2023 – 03/2025	MSc in Mathematics , Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
07/2023 – 09/2023	Summer internship in the EPFL Laboratory for Topology and Neurosciences ("Summer in the lab" program). Work on N_∞ -operads and model structures on poset categories.
09/2020 – 07/2023	BSc in Mathematics , EPFL, Switzerland. Thesis: <i>Model categories and homotopy: the example of topological spaces and simplicial sets</i> . Advisor: Prof. Jérôme Scherer.
07/2020	Baccalauréat , in Forbach, France.

RESEARCH INTERESTS

- Unstable and stable motivic homotopy theory.
- Variants of algebraic K-theory.
- Higher algebra in general.

PREPRINTS

- *The real Betti realization of motivic Thom spectra and of very effective Hermitian K-theory*, <https://www.arxiv.org/abs/2505.07297>, May 2025.
- *Realization of saturated transfer systems on cyclic groups of order $p^n q^m$ by linear isometries N_∞ operads*, <https://arxiv.org/abs/2311.01608>, November 2023. (Submitted for publication)

PUBLICATION

- *When equivariant homotopy theory meets combinatorics* (survey article), to appear in Pittsburgh Interdisciplinary Mathematics Review, Vol. 3.

TALKS

- 06/2025 Young Topologists Meeting 2025, Stockholm. "The real Betti realization of very effective Hermitian K-theory, and of motivic Thom spectra"
- 06/2025 AG Seminar homotopy theory, Regensburg. "The real Betti realization of motivic Thom spectra and of very effective Hermitian K-theory",

TEACHING EXPERIENCE

- 2025 Exercise sessions for the courses Algebraic topology II and Foundations of motivic homotopy theory, JGU.
- 2024 Student assistant for second year courses: rings & fields and group & category theory, EPFL.
- 2023 Student assistant for first year linear algebra, EPFL.
- 2022 Student assistant for first year linear algebra, EPFL.
- 2018-19 Tutoring at high school.