
JULIE BANNWART

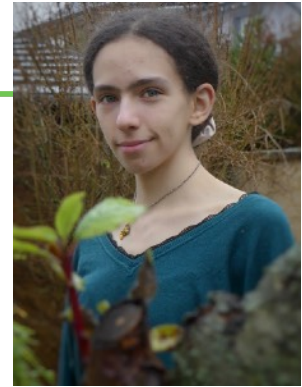
PERSONAL INFORMATION

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Institut für Mathematik (FB 08)
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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.

PUBLICATIONS

- *Realization of saturated transfer systems on cyclic groups of order $p^n q^m$ by linear isometries N_∞ -operads*, J. Homotopy Relat. Struct, <https://doi.org/10.1007/s40062-025-00377-6>, July 2025.
- *When equivariant homotopy theory meets combinatorics* (survey article), Pittsburgh Interdiscip. Math. Rev., vol. 3, pp. 1-27, <https://doi.org/10.5195/pimr.2025.56>, July 2025.

TALKS

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| 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

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| 2026 | Exercise sessions for Topology 0, JGU. |
| 2025 | Exercise sessions for Algebraic topology II and Foundations of motivic homotopy theory, JGU. |
| 2024 | Student assistant for Rings & Fields and Group & Category theory, EPFL. |
| 2023 | Student assistant for Linear algebra, EPFL. |
| 2022 | Student assistant for Linear algebra, EPFL. |
| 2018-19 | Tutoring at high school. |