
JULIE BANNWART

PERSONAL INFORMATION

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University address:

Institut für Mathematik (FB 08)
Johannes Gutenberg-Universität
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Date of birth: 12th July 2004

Nationality: French

Pronouns: she/her

EDUCATION

- 04/2025 – **PhD 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**: *On the real realization of the motivic spectrum ko* . Advisor: Prof. Tom Bachmann.
- 09/2023 – 03/2025 **MSc in Mathematics** (5.98/6), 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** (5.99/6), EPFL, Switzerland. Thesis: *Model categories and homotopy: the example of topological spaces and simplicial sets*. Advisor: Prof. Jérôme Scherer.
- 07/2020 **Baccalauréat** (20.89/20), in Forbach, France.

RESEARCH INTERESTS

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

PREPRINT

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)

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 – 2019 Tutoring at high school.