

David Kolar

Curriculum Vitae

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🌐 dakolar.github.io

PhD student at Université de Rennes, France. Interested in arithmetic geometry, ∞ -categories, condensed mathematics, six functor formalisms, and derived geometry.

Education

- 2024- **PhD**, *Université de Rennes*, Rennes
Under the supervision of Bernard Le Stum (IRMAR, Rennes) and Daniel Caro (LMNO, Caen).
Defense expected in August 2027.
Expected title *$\mathcal{D}$ -modules arithmétiques solides* (Solid arithmetic $\mathcal{D}$ -modules).
- 2021-2024 **MSc Mathematics**, *Université de Tours and Université de Rennes*, Tours/Rennes
First Thesis *Le plongement de Freyd-Mitchell* (Freyd-Mitchell embedding).
Second Thesis *Formalismes à six foncteurs* (Six Functor Formalisms).
- 2020-2021 **BSc Mathematics**, *Université de Tours*, Tours
- 2018-2020 **CPGE**, *Lycée Descartes*, Tours, PCSI/PC*

(Pre-)Publications

- 10/2026 Solid Arithmetic $\mathcal{D}$ -modules (Pre-print, arXiv, HAL).
In preparation A Six-Functor Formalism for Solid Arithmetic $\mathcal{D}$ -modules.

Teaching

- 2024-2027 Assistant for "Algèbre et Arithmétique 1", Université de Rennes
2024-2027 Assistant for "Mathématiques 1", Université de Rennes

Supervision

- 2026 Balthazar Maignan, M2 Seminar, Algebra and Geometry, ∞ -Topos et axiomes de Giraud.

Skills

Typesetting	■■■■■	$\LaTeX$, Markdown
Programming	■■■■■	C++, Python, Rust
Français	■■■■■	(Mother tongue)
English	■■■■■	
Deutsch	■■■■■	
Italiano	■■■■■	