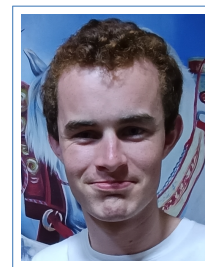


Jacques Tarr

Curriculum Vitae

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Education

- 2026-present **Master's degree in Pure and Applied Mathematics**, École Normale Supérieure Paris-Saclay, Gif-sur-Yvette (Formerly École Normale Supérieure de Cachan).
- 2025-2026 **Bachelor's in mathematics**, École Normale Supérieure Paris-Saclay, Gif-sur-Yvette (Formerly École Normale Supérieure de Cachan), obtained with an average of 16.28/20 and highest honours (mention *très bien*) .
- 2023-2025 : **CPGE MPSI/MP***, Lycée Pierre de Fermat, Toulouse.
- 2020-2023 : **International baccalauréat (OIB)**, Lycée Victor Hugo, Colomiers, obtained with highest honours (mention *très bien*).

Publications, Preprints, and Contributions to Problem Columns

Preprints

- 2026 F. Bosio, R. Riblet, and J. Tarr. Large $b_2[g]$ subsets of the first squares, 2026.

Problem Column appearances

- 2026 **Two problems solved**, In *Revue de la filière mathématique* 136-3.
- 2025 **Three problems solved**, In *Revue de la filière mathématique* 135-3.

Research Experience

École Normale Supérieure

- April **Large $B_2[g]$ sets in the first n squares.**
- 2026-June Paid research internship aiming to adapt sieve methods and probabilistic approaches using hypergraphs to tackle a generalised version of Erdős' problem 773.
- 2026
- Advisors : **Alexandre Bailleul, Robin Riblet**, Members of the Centre Borelli ENS Paris-Saclay ([Alexandre Bailleul's personal web page](#) and [Robin Riblet's personal web page](#))

Academic interventions and outreach

- Fall 2026 **Oral exam training for CPGE**, aiding students in preparing the orals for the Grandes Écoles in mathematics at the Lycée Pierre de Fermat.
- December 2025 **Lesson given to first and second year students in CPGE on analytic number theory and abstract algebra**, Lycée Pierre de Fermat.
- 2025-2026 **Coordinated the RMS project**, Lycée Pierre de Fermat.
- 2023-present **Questions and answers on Math Stack Exchange**, with approximately 7 thousand people reached.

Teaching Assistantship

- 2026-present **Mathematics Colleur for first year students**, Lycée Saint Louis, MPSI.

- 2026-present **Mathematics Colleur for first year students**, CentraleSupélec, Bachelor of Global Engineering.
- 2025-2026 **Enrolled in ENS tutoring program**, *tutored second year student in CPGE throughout the course of the entire year.*

Academic Achievements

- 2025 **Admitted on liste principale at the École Normale Supérieure Paris-Saclay** on dossier.
- 2025 **Sat the Mines-Ponts oral exams.**
- 2025 **Sat the X/ENS and Mines-Ponts written exams track MP**, with admissions to the latter.

Miscellaneous

- 2016-present **Performing close up magician with a decade of experience**, *with shows performed in Paris, Grenoble, Toulouse, Marseille, Strasbourg, Luxembourg, Spain and England.*
- 2025-present **Maintaining a collaborative mathematics blog**, *with the help of Victor Kalfon ([Blog](#)).*
- ABRSM Flute Grade 5**, *with over a decade of practice.*
- French driving license**, *Permis B.*

Languages

- French**, *native speaker.*
- English**, *native speaker with 8.5 at the IELTS exam.*
- German**, *C1.*