

AHMANE Amar

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"The mathematician's patterns, like the painter's or the poet's must be beautiful; the ideas like the colours or the words, must fit together in a harmonious way. Beauty is the first test: there is no permanent place in the world for ugly mathematics." — G. H. Hardy

Education

École Normale Supérieure Paris-Saclay 2024 – Today
M1 Hadamard.

Courses followed : Functional Analysis, Algebra, Probability Theory, Algebraic Topology, Geometry, Compact & Lie Groups, Mathematics for Image Processing

École Normale Supérieure de Rennes 2023 – 2024
Magistère of Mathematics at the ENS Rennes.

Success at the entrance exam of the ENS Paris-Saclay (Rank 9).

Courses followed : General Topology, Linear Algebra, Complex Analysis, Differential Calculus, General Group Theory, Measure Theory, Probability Theory, ODEs, Rings & Arithmetic

Secondary and post-secondary.....

Classe préparatoire: MP2I/MPI*, Lycée Paul Valéry (Paris 12e). 2021 – 2023
Admission to the ENS Rennes.

Terminale S, spécialité Mathématiques: CNED. 2019 – 2020
Bac mention Très Bien (17,77/20).

Work experience and internships

Lycée Paul Valéry: Khôlleur MPI/MPI* September 2024 –
Responsible for weekly oral exams in a CPGE.

Institut de Mathématiques d'Orsay: Research internship en Mathematics May-July 2024
During six weeks, I studied Morse Theory in order to write a proof to the classification of compact, connected, orientable surfaces.

Private lessons: Mathematics 2022 – Today
Helped students from the high-school level to the CPGE level.

Skills and languages

Languages.....
French, English.

Programming languages.....
L^AT_EX, Java, OCaml, C, Python, Javascript.

Intrests

Video games (minecraft, strategy games, construction and management simulation), sport climbing, 3D art...