



Rémi PEYRE

Mathematician (Theoretical & Applied) Specialist in Probability & Statistics



I am a specialist of research-level probability and statistics. I enjoy applying my knowledge and skills to all kind of uses: formerly as an academic researcher and as a university teacher; currently as a statistical methodologist for improving clinical trials; and also, on my leisure time, as popularizer and a competitor!

SKILLS

- Inferential Statistics
- Monte Carlo Methods
- Information theory
- Data Analysis; Time Series
- Machine Learning
- Computer programming: Python; R; C/C++; Mat-lab/Octave; $\text{\LaTeX}$
- Using LLM: Coding in new languages; literature review; ...
- Working in Linux environ-ment

LANGUAGES

FRENCH native speaker
ENGLISH fluent (~C1)

QUALITIES

- Top-level university educa-tion.
- Connecting theoretical mathematics with applica-tions
- Broad thematic spectrum; high-level viewpoint.
- Rigorous, professional-minded.

AWARDS

International Championship of Mathematical & Logical Games (high competition category):

2026 French 2nd rank
2025 French 3rd rank
2024 French winner

2026— : STATISTICAL METHODOLOGIST AT SARYGA

I have recently been hired by *Saryga*, a consulting company specialized in statistical methodology for drug development. As an applied mathematician, I am to bring my expertise on the connections between statistics, data science and information theory, in order to add a complementary technical viewpoint to some of the company's most innovative projects.

2011–2026: ASSOCIATE PROFESSOR OF MATHEMATICS

Teaching for engineering students — École des Mines de Nancy

- Mathematics for engineering: All subjects about probability, statistics and data. Third-year to fifth-year university level ([departement webpage](#)).
- Devising and monitoring pedagogical scientific projects. Examples: Physical modelling of market impact in finance; Assessing the strength of a chess player; Decision algorithm to play Yahtzee ([web links](#)).
- Complete devising and organization of university courses ([web link](#)).

Academic research on probability theory — Institut É. Cartan de Lorraine

Writing research articles, speaking at conferences, etc. (see also my [academic vitæ](#)):

- Statistical analysis of music data ([web link](#));
- Theory of dependency between random variables ([link](#));
- Stochastic processes applied to quantitative finance ([link](#));
- Mean field particle systems ([link](#));
- Functional spaces of measures ([link](#)).

Advanced science popularization

Introducing little-known application of mathematics to high-school and university students, teachers and/or researchers.

EDUCATION

Ph.D. in mathematics: “Some questions in probability theory viewed with a physical twist” ([manuscript](#)) 2007 – 2011

ENS de Lyon, UMPA Laboratory. Adv.: Cédric Villani

Master of Mathematics 2006 – 2007

University Paris-Sud (Orsay, France), Probability & Statistics / Specialty “Probability”

HIGHEST HONORS

“Normalien” student 2004 – 2007

ENS de la rue l’Ulm (Paris, France), Mathematics Department

HIGHEST HONORS

Scientific “classes préparatoires” 2002 – 2004

Lycée Pierre de Fermat (Toulouse, France), Specialty: Physics & Chemistry