

Curriculum Vitae of Guillaume Remy

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Born on November 17th, 1992 in Paris.
Dual citizenship: French and American.

Employment

Quantitative researcher at Cubist Systematic Strategies (Point72).	01/2024 – Present
<ul style="list-style-type: none">• Built trading strategies for equities using time-series analysis, high-dimensional statistics, and ML.• Implemented ML algorithms (trees, boosting, neural networks), and used LLMs for sentiment analysis.• Worked on optimization for portfolio construction, including risk modeling and trading cost estimations.	
Member in mathematics at the Institute for Advanced Study (Princeton).	09/2022 – 08/2023
Postdoctoral research scientist in the mathematics department at Columbia University.	09/2018 – 08/2022

Education

PhD in mathematics at École Normale Supérieure in Paris (top 1 French university in math). 09/2015 – 08/2018	
École Normale Supérieure in Paris: Last two years of undergrad + graduate program. <i>Admitted 20th (nationwide exam) through the Math – Physics entrance exam.</i>	09/2011 – 08/2015
Lycée Louis-Le-Grand in Paris: First two years of undergrad.	09/2009 – 08/2011

Internships and additional applied experience

Worked for the crypto startup Axiom (https://www.axiom.xyz). <ul style="list-style-type: none">• Involved implementing linear algebra for data analysis in zero-knowledge proofs.	08/2023 – 10/2023
Worked in biological data analysis at Harvard University, published in <i>Physical Biology</i> .	02/2013 – 07/2013

Math research and teaching

Conducted research in probability / mathematical physics on random surfaces and conformal field theory. <ul style="list-style-type: none">• 11 publications, all available at https://guillaumeremy92.github.io.• Two papers published in the Duke Math Journal (top 5 math journal) and one in JEMS (top 8 journal).• One paper in Annals of Probab. (top probability journal), two in CMP (top mathematical physics journal).• Instructor of calculus and probability/statistics at both Columbia and École Normale Supérieure.• Has given over 40 talks at research seminars.	
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Programming skills and experience

- Coding: Python (2 years at Cubist), Rust (3 months at Axiom), SQL, Matlab, Mathematica.
- Python libraries: Numpy, Scipy, Pandas, Polars, xArray, Scikit-Learn, PyTorch, Jax, Transformers, Ray.

AI research and projects

- Developed a statistical benchmark to evaluate the performance of transformer models for multivariate time-series forecasting in low signal to noise regime. Experimented with architectures, sparse attention.
- Fine-tuned Qwen 2.5 Math 1.5B to solve math problems using supervised fine-tuning, reasoning RL.
- All AI and coding projects available at <https://github.com/GuillaumeRemy92>.