


# Léo Dana

Graduated student in  
mathematics, ENS de Lyon

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24 years old





## Education

2020–2023 **Bachelor and Master of Mathematics**, *École Normale Supérieure*, Lyon  
 Courses in geometry, topology, algebra and probability, with additional computer science courses. Specialization in Probability, Statistics and Machine Learning


2018–2020 **Preparatory Classes**, *Lycée Janson de Sailly*, Paris 16  
Preparation for a highly competitive examination to enter scientific universities  
Undergraduate courses in mathematics, physics and computer science  
Results : 32nd at *École Polytechnique X* (best french engineer university), 17th at *ENS de Lyon* (second best french research university)

## Internships

Mars-June 2024 **Research**, *Dauphine - Lambsade*, Paris  
 A 18-week internship with Yann Chevaleyre on Mechanistic Interpretability for understanding memorization in Deep-Learning models.

April-August 2023 **Research**, *FAR AI & SERI MATS*, Berkeley, US  
 A 20-week internship on Mechanistic Interpretability, building a gear level understanding of Large Language Model's behavior, directed by Claudia Shi:


- Using [concept erasure](#) to finding the gender direction in gpt2-xl, and steer the model into gender neutrality.

May-July 2022 **Research**, *IRT Saint Exupéry*, Toulouse  
 A 10-week internship on [Conformal Prediction](#), a mathematical tool to quantify uncertainty in machine learning, directed by Sébastien Gerchinovitz:

- Focus on large deviation inequality and optimization

June-July 2021 **Research**, *I2M (Institut de Mathématique de Marseille)*, Marseille  
A 6-week internship on [reinforced random walks](#) modelizing ants walks, directed by Bruno Schapira.

## Work Experience

2022-Present **AI Safety Volunteer**, *EffiSciences*, [Website](#)  
 I helped create the association EffiSciences which goal is to promote impactful research. Organized two 20-people summer boot-camp on AI safety, as well as hackathons and training days.

2021-2022 **Oral exam preparator**, *Les Lazaristes*, Lyon  
Dispensing math oral exam to the students preparing nationwide competitive exams in engineering

2021-2022 **Teacher at the student Seminar**, *École Normale Supérieure*, Lyon and Ulm

I taught three courses for the student seminar :

- In 2021 on [Category Theory](#)
- In 2022 on [Fractal Geometry](#)
- In 2023 the [Turing Seminar](#) with EffiSciences

## Skills and interests

Languages : French (mother tongue), English (C1)

Volunteer : I was President of the Art (2020-2022) and Bee-keeping (2021-2022) association.

IT : Latex, General Python, Pytorch, [GitHub](#)

Sports : Cycling, Strength training, Brazilian Jui-jitsu

Philosophy : I like Analytic Philosophy, Absurdism and Rationality