

# Raphaël Faure

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PhD student at the *Laboratoire Méthodes Formelles* (ENS Paris-Saclay, CNRS), supervised by [Alain Finkel](#) in the [ComPsy](#) research group. My research focuses on the formalization of subjective experience from personal narratives using formal methods and natural language processing. Concretely, we aim to construct symbolic representations of personal narratives, enabling new forms of analysis.

## Research Interests

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Natural language processing, computational linguistics, formal methods, combinatorics on words, symbolic representations of narratives, computational psychiatry and psychology.

## Education

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- **PhD Thesis: *Formalization of Subjective Experience***, supervised by [Alain Finkel](#),  
École Normale Supérieure Paris-Saclay, Gif-sur-Yvette 2025 – 2028
- **Master 2: Mathematics, Vision, and Learning (MVA)**,  
École Normale Supérieure Paris-Saclay, Gif-sur-Yvette – Distinction: Highest Honors (Très Bien) 2024 – 2025
- **Engineering Degree (MSc in Engineering), Specialization in Mathematics and Data Science**,  
CentraleSupélec, Gif-sur-Yvette 2021 – 2025
- **Preparatory Classes for Grandes Écoles (MPSI/MP\*)**,  
Lycée Montaigne, Bordeaux 2019 – 2021

## Publications

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- R. Faure and A. Finkel. Nov 25-28, 2025. *Automating Linguistic Frameworks with LLMs: An Approach to Analyze Personal Narratives*. In Proceedings of the 3rd International Conference on Foundation and Large Language Models (FLLM2025), Vienna, Austria. [DOI:10.1109/FLLM67465.2025.11390984](https://doi.org/10.1109/FLLM67465.2025.11390984)

## Teaching Experience

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- **Teaching Assistant: Statistics and Learning**,  
CentraleSupélec (1st year engineering students), Gif-sur-Yvette 2026  
15 hours. Topics: probability, statistics, introduction to machine learning.
- **Teaching Assistant: Algorithmics**,  
CentraleSupélec (1st year engineering students), Gif-sur-Yvette 2025  
22.5 hours. Topics: algorithmic complexity, basic algorithms.
- **Mathematics Oral Examiner (Colleur)**,  
Lycée Lakanal, Sceaux 2025 –  
Weekly oral examinations in mathematics for preparatory classes (physics–chemistry track).

## Student Supervision

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- **Supervision of a research project by a group of final-year students in the *Research Track* course**,  
CentraleSupélec, Gif-sur-Yvette September 2025  
Topic: *Prompt Optimization for Large Language Models*.

## Selected Work Experience

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- **Research Intern**,  
Laboratoire Méthodes Formelles (LMF), Gif-sur-Yvette Apr 2025 – Oct 2025  
Research internship on the formalization of subjective experience supervised by [Alain Finkel](#).

- **Business Data Analyst Intern,**  
Uniplaces, Lisbon *Mar 2024 – Sep 2024*  
Database restructuring and data analysis to optimize key business functions.
- **Data Scientist Intern,**  
Natixis Corporate & Investment Banking, Paris *Sep 2023 – Feb 2024*  
Development of prediction tools based on machine learning and deep learning methods for economists.

## Other Experience

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- **President Pascal Association,**  
CentraleSupélec, Gif-sur-Yvette *Jun 2022 – Jun 2023*  
Student association dedicated to prevention and awareness on health and well-being issues on campus.

## Skills

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**Languages:** French *Native*, English *Fluent*  
**Programming Languages:** Python, R, SQL