

# Luc POMMERET

*Research Engineer in Natural Language Processing*

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## Research Experience

- December 2025 – August 2026 **Research Engineer at LISN, CNRS/LISN**, Orsay, supervised by Thomas Gerald and Sophie Rosset  
Atomic propositions
- April 2025 – October 2025 **Research Intern at LISN (Interdisciplinary Laboratory of Digital Sciences), CNRS/LISN**, Orsay, supervised by Sophie Rosset, Christophe Servan, and Sahar Ghannay  
Evaluation and improvement of a RAG-type dialogue and question-answering system using open-source LLMs. Implementation of an atomization step to improve retrieval. State of the art on the use of atomic propositions in NLP. Training and evaluation of a propositioner. → Internship report here: [web link](#).
- April 2024 – September 2024 **Research Intern at IRIF (Institute for Research in Fundamental Computer Science), ANR Algoridam / IRIF**, Paris 13th, supervised by Michel de Rougemont  
Study of the emergence of capabilities in large language models (LLMs). Evaluation of the impact of noise in training data on LLM performance. Implementation of sparse auto encoders (SAE) to study concept acquisition. → Internship report here: [web link](#).

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## Publications and Research Work

### Work in progress

- 2024–2025 Pommeret, L., Lassoued, A. & de Rougemont M. (2025). "Transformers may compose". [Status: in preparation].

### Conference Communications

- 2026 Pommeret, L., Gerald, T., Rosset, S., Servan, C. & Ghannay, S. (2026). "Atomic Propositions: Bridging Neural and Symbolic Approaches for Interpretability by Design". GDR TAL Interpretability Day, ISIR Jussieu, March 17, 2026. Oral presentation.
- 2025 Pommeret, L., Rosset, S., Servan, C. & Ghannay, S. (2025). "AtomicEval: Evaluation Framework for Atomic Proposition Autonomy with French Propositioner". JDSE 2025, Université Paris-Saclay. HAL — Program.
- 2024 Pommeret, L. (2024). "Exploring emergent skills with Chess-GPT". AI and Games Workshop, and MAFTEC, 17th Artificial Intelligence Platform (PFIA 2024), La Rochelle. Published in the AFIA Bulletin No. 126, October 2024.

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## Education

- 2025–2026 **Master 2 Philosophy — Logic and Philosophy of Science Track, Panthéon-Sorbonne University**, Paris 5th  
Entered Master's 2. First semester: metaphysics, philosophy of logic, philosophy of mathematics, philosophy of science. Second semester: philosophy of psychiatry, philosophy of knowledge and language, philosophy of computer science, philosophy of science. Program website.
- 2024–2025 **Master 2 Mathematics and Applications — LOGOS Track, Université Paris-Cité**, Paris 13th, With Honors  
First semester: model theory, machine learning, machine learning for NLP, philosophy of knowledge. Second semester: CNRS research internship at the Interdisciplinary Laboratory of Digital Sciences (LISN) supervised by Sophie Rosset, Christophe Servan, and Sahar Ghannay. Program website.

- 2023–2024 **Master 1 Mathematics and Applications — LOGOS Track**, *Université Paris-Cité*, Paris 13th  
 First semester: algorithms, logic, philosophy of science, semantic analysis, language and pragmatics. Second semester: incompleteness and undecidability, machine learning for NLP, advanced semantics and pragmatics, philosophy of mathematics, topology. Program website.
- 2022–2023 **Bachelor's 3 Philosophy**, *University of Strasbourg*, Strasbourg, With Honors  
 First semester: general philosophy, history of philosophy, philosophy of knowledge and science, German philosophy, philosophy and culture, methodology, English. Second semester: metaphysics, history of philosophy, philosophy of knowledge and science, neuropsychology (elective), social sciences, methodology, English. Program website.
- 2022–2023 **Bachelor's 3 Economics and Management**, *University of Strasbourg*, Strasbourg  
 First semester: industrial economics, games and strategy, finance, labor economics, econometrics, theory of knowledge. Second semester: economic growth, economic policy, advanced microeconomics, international economics, optimization, econometrics, history of economic thought. Program website.
- 2022–2023 **Magistère in Economic Engineering (First Year)**, *University of Strasbourg*, Strasbourg  
 First semester: introduction to research, economics of creative industries, voting economics, research seminar. Second semester: economic modeling, data collection, cliometrics, health economics, economic geography, research thesis. Program website.
- 2021–2022 **Khâgne B/L**, *Lycée Fustel de Coulanges*, Strasbourg  
 Philosophy, mathematics, economic and social sciences, history, geography (general and cartography), literature, English. Program website.
- 2020–2021 **Hypokhâgne B/L**, *Lycée Fustel de Coulanges*, Strasbourg  
 Philosophy, mathematics, economic and social sciences, history, Latin, geography (general and cartography), literature, English.
- 2020 **Baccalauréat L with Mathematics Specialization**, *Lycée Ernest Renan*, Saint-Brieuc, With Highest Honors