

Josselin ROBERT

M.Sc. in Data Science — École Polytechnique (Institut Polytechnique de Paris)

Graduate Engineering Student at Télécom SudParis

+33 6 71 67 40 88 • josselin.robert@polytechnique.edu • linkedin.com/in/josselin-robert •
github.com/JsonLinesCode

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Paris, France

To: Selection Committee, Mila AI Safety Studio
Mila – Quebec Artificial Intelligence Institute
Montreal, QC, Canada

Subject: Application for Research Intern – AI Safety (Mila AI Safety Studio)

Dear Members of the Mila AI Safety Studio Selection Committee,

I am writing to express my strong enthusiasm for the Research Intern position in AI Safety within the Mila AI Safety Studio. Currently pursuing my M.Sc. in Data Science at École Polytechnique (Institut Polytechnique de Paris) alongside my engineering degree at Télécom SudParis, I have concentrated my academic work on statistical learning theory, convex optimization, and generative model architectures. Mila's foundational leadership in socially beneficial, safe, and robust artificial intelligence resonates deeply with my dedication to building machine learning systems grounded in theoretical rigor and empirical resilience.

The mandate of the Mila AI Safety Studio—spanning dynamic benchmarking, red-teaming simulations, and automated harm evaluation—lies at the exact convergence of my research trajectory and engineering background. In particular, I bring a dual profile combining theoretical mathematical foundations with hands-on systems and reverse-engineering capabilities:

- **Adversarial Mindset & Systems Reverse-Engineering:** As Founder and Lead Developer of yNotes (>10,000 active users), I conducted extensive protocol reverse-engineering through network traffic inspection and Android APK bytecode decompilation, managing 7 open-source contributors and security releases. This first-principles analytical perspective directly equips me to identify edge-case model vulnerabilities and design robust red-teaming simulations.
- **Applied NLP & Transformer Evaluation:** During my AI engineering internship at Better Group, I designed and deployed an automated zero-shot semantic classification pipeline using Hugging Face Transformers, conducting rigorous empirical evaluation passes on inference latency and semantic precision in production environments.
- **Theoretical Machine Learning Rigor:** Through graduate coursework in Machine Learning Theory, Convex Optimization for Data Science, and NLP/LLMs at École Polytechnique, I have developed the mathematical discipline required to formulate principled safety metrics, analyze generalization bounds, and document findings for peer-reviewed dissemination.

Joining Mila represents an exceptional opportunity to contribute actively to public safety guardrails alongside world-class researchers and engineers. As a French citizen, I am fully eligible for Canada's simplified **EIC (Expérience Internationale Canada) Stage coop international** closed work permit, and as a native French and fluent English speaker, I look forward to integrating seamlessly into Montreal's bilingual scientific community.

I am available for a 6-month master's research internship starting mid-April 2027. I would welcome the opportunity to discuss how my technical skills, systems background, and dedication to safe AI can support the ongoing mission of the Mila AI Safety Studio.

Thank you for your time and consideration.

Respectfully,
Josselin Robert