PAUL KRONLUND-DROUAULT

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French (native) • English (fluent) • Italian (basic)

EXPERIENCE

Université de Lille – CRIStAL / IRCICA — Lille, France
Research Intern, 2XS team — 2026
Building a general runtime for asynchronous spiking neural networks, in Rust, that supports alternative learning rules. Supervised by Adrien Fois and Thomas Firmin.

Unsuspicious Industries — Paris, France
Founder — 2023-present
Independent research on language models and formal methods. Building aufbau, an open-source engine that constrains LLM generation to formal systems given at runtime (grammars with typing rules), with Niels Mündler (SRI Lab, ETH Zürich); submitted to SAS 2026 (writeup). Supervised an intern on entropy-based sampling.

Inria Saclay & École Polytechnique — Palaiseau, France
Research Intern — 2025
Table structure recognition for statistical fact-checking, where existing tools failed on about 30% of government spreadsheets. Built a cell-level CNN trained on synthetic data, with graph-based post-processing. Supervised by Ioana Manolescu.

Mediapart — Paris, France
Consultant — 2025-2026
Helped organise a seminar series on AI for the newsroom: strategy, critique, and how to cover it.

Radio France — Paris, France
AI Developer — 2024
Built the generation pipeline for *Les naufragés du téléphérique*, a fully AI-generated episode aired on France Culture: fine-tuned LLMs for the script, text-to-speech, and automated sound editing. Technical report.

University of California, Santa Cruz — Santa Cruz, CA
Research Intern — 2023
Dense 3D facial landmark detection from depth maps, fast enough for real-time face model fitting.

EDUCATION

École Normale Supérieure de Lyon — *CPES* (*Physics, Biology, Geology*) — 2024-present

Aix-Marseille Université — *Licence in Mathematics & Computer Science* — 2024-present

PUBLICATIONS

2026: Semantic prefix oracles for LLM decoding: contracts and differential validation. P. Kronlund-Drouault. LMPL @ SPLASH/ISSTA 2026.

2025: Towards better identification of fact tables in statistical spreadsheets. P. Kronlund-Drouault & I. Manolescu. JDSE.

2024: Propaganda is all you need. P. Kronlund-Drouault. arXiv:2410.01810.

2023: Dense 3D facial landmark identification by using depth maps. T. Wu, E. Li, P. Kronlund. engrXiv.

PROJECTS

Holy Slop!: *A Generative Atlas of Slopaganda in Palestine*, a two-screen installation by Occitane Lacurie & Barnabé Sauvage. Developed the second screen with them, a map of the ideological encoding in Grok's latent space. Shown in *The World Through AI*, SCHIRN Kunsthalle Frankfurt, and *Hidden Layers*, Worth Ryder Art Gallery, UC Berkeley (2026).

slut: Rust crate for dimensional analysis: physical units are checked by the type system at compile time.

Systems: A Linux distribution with its own package manager, in C; HCML, a server-side rendering framework; GPU compute (shaders, ray tracing, CUDA) and FPGA work.