Paul BAGOURD

French

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RESEARCH IN COMPUTER SCIENCE

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EPFL LAUSANNE - MASTER DEGREE IN MATHEMATICAL ENGINEERING

Rigorous, curious, passionate with communication skills in team environment, I enjoy exploring the forefront of scientific advancements to contribute meaningfully to our evolving world.

Experiences

CYD Campus (Lausanne): Main project: development of a GNN-based approach to understand and anticipate the evolution of quantum technologies. Other projects: multiple research collaborations with partners in quantum or AI (1-year contract). — 2025 - 2026

QUANDELA (Paris): French leader in the field of photonic quantum computers: — 2023 - 2024
Mathematical design of a quantum optical framework to generate entangled quantum states (6 months Internship).
2nd best paper award at 2024 IEEE Quantum week conference: Simple rules for two-photon state preparation with linear optics

LAUZHACK (Lausanne): Conception of quantum computing oriented challenges with two colleagues for participants of the Lausanne hackathon (LauzHack). — 12/ 2022

EPFL (Lausanne): Teaching assistant, mentor and tutor of mathematics, physics, and chemistry for Bachelor students at EPFL. — 2018-2022

Education

Ecole Polytechnique Fédérale de Lausanne

Master in Applied Mathematics (Minor in Quantum Science and Engineering) — 2021 - 2024
Information theory - Statistics - Algorithms and optimisation - Cryptography

Master project in Neural Data Compression, chair of Statistical Field Theory, EPFL. — Spring 2024

Research project on the robustness of McEliece cryptosystem for post-quantum cryptography, chair of Arithmetic, EPFL. — Spring 2023

Bachelor in Mathematics — 2018 - 2021

Technical skills

PYTHON (Pytorch, Pandas, Scikit-learn, Hugging Face), R, MATLAB, SQL

Languages

English C1, Spanish B1, Chinese A2, French (mother tongue)

Interests

Associative: Communication Manager for the literary association "PLUME" at EPFL. Youth organisation "Les Iris" (Marseille): member then coordinator, planning itinerant hiking and cycling camps. Member of the association "Ingénieurs du Monde" at EPFL: writing articles on cooperation between North/South countries.
Sports: kitesurfing, surfskate and tennis. Arts: music (piano and guitar, compositions using Ableton software), poetry (1st prize in the poetry contest at the Festival de la Harpe, 2021).