Louis F. Abraham

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Experience

Since 2025 **CTO & Co-founder** - Reduck
Building the future of web agents.

Since 2024 **Head of LLM & Gen AI** - Tiime
Leading the technological strategy and implementation of generative AI for accounting.

Adjunct Professor - Sciences Po
Teaching a course on Generative AI.

Scientific Advisor - Comand AI

Member of the Scientific Board - Nfinite

Since 2022 **Member of the Board** - Afer
Life-insurance association of 800,000 people handling €60bn of investments.
In charge of strategy, products, sustainable investing and digital transformation.
Administrator of Afer's endowment funds and Afer Premium (net assets €300m).

2024 - 2025 **Core Team Researcher & Agent Production Team Lead** - H Company
Building the next generation of agentic models for enterprise automation and AGI.

2020 - 2024 **Co-founder** - Secrecy
Encrypted cloud storage for developers made simple.
Raised €1m from top-tier investors and patented a novel encryption technology.

2020 - 2023 **Co-founder & CTO** - Gematria Technologies
Developed state of the art NLP pipelines for asset managers.

2020 - 2022 **Advisor to the Chairman of the Board** - Afer
Guided Afer's strategy during the acquisition process of Aviva France (€3.2bn).

2020 **Economist** - Paris School of Economics / Bank of France
Studied counterparty choice in the over-the-counter credit default swap market using EMIR data.

2018 **Deep Learning Researcher** - ENS Ulm / EHESS / CNRS
Conducted research in cognitive machine learning and computer vision under Emmanuel Dupoux.

2017 **e-FICC Quant Researcher** - BNP Paribas CIB, London

2015 - 2016 **Administrative analyst** - French Ministry of Foreign Affairs

2015 **French army officier training** - École polytechnique

Education

2023 **Certificate in Insurance Company Board Governance** - French Institute of Actuaries
Executive education program in partnership with IFA (French Institute of Directors).

2021 - 2024 **PhD in Business Economics & Finance** - Université Paris 1 Panthéon-Sorbonne
Applications of computational game theory to economics and finance. Teaching assistant in Finance.

2018 - 2020 **Master of Science ETH in Computer Science** - ETH Zurich
ETH Zurich ranks as one of the best universities in the world [link].
Master Thesis obtained with a perfect grade (6.0/6.0).

2015 - 2019 **Ingénieur Polytechnicien** - École polytechnique
Master's degrees in computer science and mathematics from France's top scientific school.
Youngest candidate accepted (became senior bachelor student when 17 years old).

2013 - 2015 **Classe préparatoire aux Grandes Écoles MP-Info** - Lycée Louis-Le-Grand (Paris)

Other activities

- **Independent researcher** (machine learning, computer science, blockchain, economics): publications in **JMLR** and **NeurIPS**. 400+ citations. Co-authors include Rob Tibshirani (Stanford) and Bernhard Schölkopf (MPI).
- **Open-source contributor**: 1500+ stars on GitHub. Author of lassonet, ffpass, algnuth, har2requests, fastnode2vec and pydivsufsort.
- **Reserve Officer of the French National Gendarmerie**: cybersecurity and ML applied to forensics. Rank of Captain.
- **Community service**: Editorial board member of dotAI 2025, board member of X-IA

Awards

- ICPC **World Finalist 2021, High Honors**: Oldest, largest and most prestigious programming contest in the world. Ranked **24th worldwide** against 60,000 other students in teams of 3 and achieved **France's all-time record**.
  Also SWERC **Gold Medalist** and **Southwestern Europe Champion** (2019).
- **Concours Général**: Most prestigious academic competition in France. Distinction in Mathematics (2013), youngest laureate of all subjects.

Others

Languages French (native speaker), German (Goethe-Zertifikat C1), English (TOEFL 110/120).

Music Piano: winner of international contests, concert soloist with orchestral accompaniment.

Sports Horse riding, Skiing, Swimming, Scuba diving.

Hobbies Literature, Philosophy, Competitive programming, Anime, Video games.