Louis F. Abraham

All-time France record holder at ICPC World Finals
1000+ stars on GitHub − 200+ academic citations
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Areas of Expertise

Computer science: machine learning, NLP, algorithms, cryptography, formal methods, computational game theory.
Software engineering: web development, high performance / scientific computing, information security.
Economics and finance: quantitative finance, derivatives, OTC markets, blockchains, life insurance.
Technology and society: algorithmic transparency, digital identity, online privacy, digital health.

Experience

Since 2024	**Head of LLM & Gen AI** - Tiime Leading the technological strategy and implementation of generative artificial intelligence.
Since 2023	**Co-founder** - Secrecy
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.
2020 - 2023	**Co-founder & CTO** - Secrecy Encrypted cloud storage for developers made simple. Raised €1m from top-tier investors. **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). Administrator of Afer's endowment funds and Afer Premium (net assets €300m).
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 officer 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 (Palaiseau) 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**. More than **200 citations**. Co-authors include Rob Tibshirani (Stanford) and Bernhard Schölkopf (MPI).
- **Open-source contributor**: more than 1000 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.

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.