

Opinions Libres
le blog d'Olivier Ezratty

English bio and background

Olivier Ezratty, < … | quantum engineer | … >

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Google Scholar page, **arXiv page**.

What I am doing

I am an author, trainer, academic and advisor on quantum technologies working with businesses and public services. I created the open-source book "Understanding Quantum Technologies", with its 8th edition published in 2025.

On quantum technologies

Here are my various activities in the quantum technologies ecosystem.

Author

- I published the reference ebook **Comprendre l'informatique quantique** in September 2018 and updated in September 2019 and 2020, then in English with **Understanding Quantum Technologies**, **published** in September 2021 (836 pages), September 2022 (1,128 pages), September 2023 (1,366 pages), September 2024 (1,554 pages), September 2025 (1,524 pages) and September 2016 (1,822 pages). The English versions can also be ordered in **paperback edition** on Amazon worldwide.

- With **Fanny Bouton**, I host two **podcast** series on a pro-bono basis: **Quantum** on quantum news (since September 2019) and **Decode Quantum**, one-hour discussions with specialists in the field (researchers, entrepreneurs, etc) since March 2020, in partnership with Frenchweb, which broadcasts them on its website. They are in French, so far, with some episodes in English. We put a hold on Decode Quantum podcasts in 2026.

Research

- I am a research associate at **EPITA Research Laboratory**. As such, I published a review paper on **superconducting qubits** and am working in the field of quantum foundations along with Philippe Grangier (IOGS) with a **paper on quantum foundations** published in Entropy in 2025.

- I coordinated the redaction of an arXiv EU **perspective on AI and quantum computing** in 2025.

- I contributed to the research work on the energetics of quantum computing led by Alexia Auffèves and her team from CNRS Institut Néel in Grenoble and MajuLab in Singapore, and co-founded the **Quantum Energy Initiative** that we launched in 2022. I am a member of the QEI scientific board.

Expertise

- I am a **member** of the **European Quantum Computing Assessment Board** (Q-CAB) since March 2026 and participate as an editor to the update of the EU Strategic Research and Industry Agenda since March 2026.
- I am an expert on quantum technologies for **Bpifrance** (i-NOV, i-LAB, i-Demo and deep tech programs) and **ANR** (HQI and METRICS programs).
- I am since June 2024 a member of the **Inria expert group** for risky research projects selection (Programme PIQ).

Speaker

- With **Fanny Bouton**, we launched popularization conferences for the general public on quantum computing starting with **Le quantique c'est fantastique**, played in Nantes during the Web2day event in June 2018 (**video**).
- I am a **speaker** on quantum technologies for many private and public sector actors. With for example: Société Générale, BNP, Crédit Agricole, Michelin, Adeo, L'Oréal, FIECC, IHEDN, Business France, Avolta Partners, as well as in various conferences (Minalogic days in Grenoble, QCB conferences of Bpifrance, #GEN2021 in Metz, etc., and often in duo with Research Directors such as Alexia Auffèves, Pascale Senellart, Eleni Diamanti, Elham Kashefi (all from CNRS) and Maud Vinet (CEA-Leti).
- I moderated some panels on **quantum computing**, quantum sensors and **quantum software** in Bpifrance's BIG event in 2018, 2019 and 2021. Then at the launch of the hybrid quantum computing strategy on January 4, 2022 at IOGS as well as in the Quantum Ambitions conference organized by CEA, CNRS and Inria on February 21, 2022 at CEA in Saclay and at the **France Quantum** event in June 2022 at the Eiffel Tower and then in the June 2023, May 2024 and June 2025 editions, June 2026 being in the making.
- I spoke also at the **Q2B** in Paris, in 2023 (on the quantum energy initiative) and 2024 (on quantum error correction) and 2025 in Paris and in Santa Clara (on FTQC roadmaps, FTQC energetics, and quantum computing case studies analysis) and in various academic events outside France, like in Taiwan (September 2023), Denmark (December 2023), Slovenia (April 2024), Lindau, Germany (July 2024), CERN in Geneva (January 2025), Padova, Italy (June 2025), and Gottingen, Germany (Septembre 2025).

Trainer

- I run a seminar on quantum computing for corporate IT and innovation audiences for **CEA INSTN** and for various corporations in the financial and industry sectors.
- I am a visiting teacher in the quantum major from **EPITA** since 2023.
- I also teach at Ecole Normale Supérieure Paris-Saclay since 2024 and Ecole CentraleSupelec since 2005.

Past topics

Between 2006 and 2021, I published many other open source ebooks: **Les usages de l'intelligence artificielle (**2017, 2018, 2019 and 2021) as well as the **CES Las Vegas Report**, each January from 2006 to 2020, and the **Startup Guide,** which became a reference in France with more than 400,000 downloads, between 2006 and 2019). These books were published on my blog "Opinions Libres" (**www.oezratty.net**) which deals with technological innovation from the scientific, technological, entrepreneurial and innovation public policies and now, mainly about quantum technologies.

Since 2005, I carried out various missions in different verticals such as the **media and telecoms** (Orange, Bouygues Télécom, TDF, Médiamétrie, BVA, Astra), **finance and insurance** (BPCE group, Caisse des Dépôts, Société Générale, Swiss Life, Crédit Agricole, Crédit Mutuel-CIC, Generali, MAIF), **industry and services** (Schneider, Camfil, Vinci, NTN-STR, Econocom, ADP, Air France, Airbus) and in the **public sector** (Ministry of Defense, CEA, Météo France, Bpifrance, Business France, Douanes Françaises, Inria, European Union).

QFDN

I am also the co-initiator in 2012 of **Quelques Femmes du Numérique !** ("some digital women", **www.qfdn.net**) which became an association in 2016, and aims to increase gender balance in digital professions, by raising awareness among young people about these professions. I am the portraits photographer for the initiative and I also developed their new **web site** launched in April 2021.

Before

I was initially a software engineer and developer in electronic publishing, starting in 1985 at **Sogitec,** a subsidiary of the Dassault group, where I was consecutively Software Engineer, then Head of the Research Department in the Communication Division. I initialized developments under Windows 1.0 in the field of editorial computing as well as on SGML, the ancestor of HTML and XML.

Joining **Microsoft France** in 1990, I gained experience in many areas of the marketing mix. I launched the first version of Visual Basic in 1991 and Windows NT in 1993. In 1998, I became Marketing and Communication Director of Microsoft France and in 2001, Director of the Developer Division, which I created in France to launch the .NET platform and promote it to developers, higher education and research, as well as to startups. These were 15 very busy years but a long time ago.

Education

I am a software engineer from **Centrale Paris** (1985), which became CentraleSupelec in 2015.

Pictures of me can be found **here**.