

## **Opinions Libres**

le blog d'Olivier Ezratty

## My first peer-reviewed paper on quantum computing

Since 2018, I have been exploring quantum technologies and quantum computing as a newbie. It started with a conference (with Fanny Bouton), then 18 posts on this blog, then a book in French, which turned into a 1132 pages book in English. Plus two series of podcasts again with Fanny Bouton, teaching on quantum technologies and computing in various places and cofounding the Quantum Energy Initiative with Alexia Auffèves, Robert Whitney and Janine Splettstoesser. What a journey!

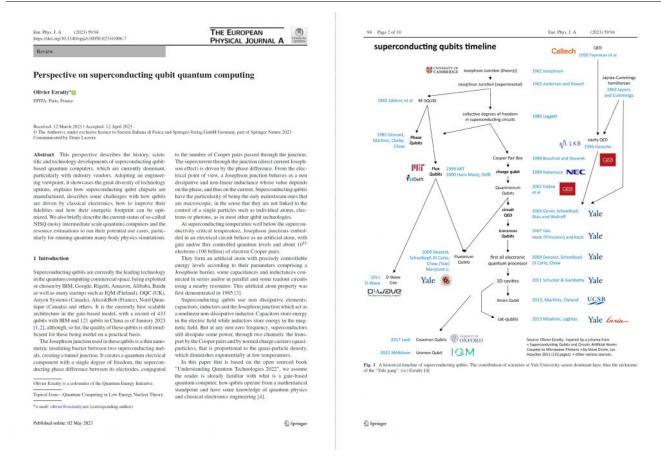
I also started to publish preprints on arXiv, like Mitigating the quantum hype (January 2022, 26 pages) and Is there a Moore's law for quantum computing? (March 2023). Plus an upcoming one titled "Where are we heading with NISQ?" (I'm still looking for reviewers for this rather long 47 pages piece).

Last but not the least, I was asked during summer 2022 by Thomas Ayral (Atos/Eviden) and Thomas Duguet (CEA) to contribute to a special edition of the **European Physical Journal A** with a perspective paper on superconducting qubits. After a long ride, "Perspective on superconducting qubit quantum computing" was recently published and you can access the **PDF file online**.

It is part of the "Quantum Computing in Low-Energy Nuclear Theory" section, coordinated by Thomas Ayral, Thomas Duguet, Denis Lacroix and Vittorio Somà.

It happens to be a premiere as I am concerned since this is the first of my papers being published in a peer-reviewed journal. This was quite an experience for me, like the one any young PhD candidate is going through when publishing his/her first papers. But with a key difference: I didn't do some actual research and didn't have a PhD thesis supervisor. I also had to learn using LaTeX for the first time and going through the submission, reviewing, updating and final editing process for the paper.

I will share more details on this experience in the next version of my book Understanding Quantum Technologies, to be published before the end of 2023.



I wouldn't have done all of that without the help and kindness from the many quantum physicists and other specialists I have met these last 5 years. You know who you are! Thank you all!

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