

# VEILLE TECHNOLOGIQUE

LIENS DES RESSOURCES  
FEDNAIL LECLERCQ

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## ⌚ Objectifs de la veille :

Comprendre le fonctionnement de l'ordinateur quantique.

Identifier les impacts de cette technologie sur l'informatique actuelle et future.

Explorer les langages, Framework et simulateurs quantiques accessibles aux devs.

## 🔗 Ressources clés utilisées :

Dans le cadre de ma veille technologique axée sur l'ordinateur quantique et l'internet quantique, j'ai adopté une stratégie d'information multi-sources, alliant rigueur académique et réactivité face à l'actualité tech. J'ai configuré des Google Alertes sur des expressions clés comme "quantum computer", "quantum internet", "Qubit" ou "quantum teleportation" pour rester informé en temps réel des innovations et découvertes majeures. À cela s'ajoutent des flux RSS spécialisés issus d'ArXiv.org (section Quantum Physics), Feedly et RSS.app, qui m'ont permis de suivre de manière structurée les publications scientifiques et les articles techniques. Pour enrichir la veille avec des retours communautaires, j'ai suivi le subreddit r/QuantumComputing, où chercheurs, développeurs et passionnés échangent autour des défis concrets de la programmation quantique, des expériences réseau quantique ou encore des simulateurs d'IBM et Google. Enfin, j'ai utilisé la documentation officielle Qiskit, ainsi que des tutoriels visuels (YouTube – IBM Research, Coding Tech) pour expérimenter la téléportation quantique et comprendre les concepts clés derrière les futurs réseaux quantiques.

## Google Alertes

The screenshot shows the Google Alerts dashboard. At the top, there's a blue header bar with the Google logo and a search bar containing the placeholder "Créer une alerte à propos de...". Below the header, the main area is titled "Alertes" and contains the sub-instruction "Recevez des alertes lorsque du contenu susceptible de vous intéresser est publié sur le Web". A list titled "Mes alertes (10)" displays ten search queries, each with edit and delete icons:

- "Ordinateur quantique" \* "Internet quantique" ...
- cryptographie quantique
- informatique quantique
- Internet quantique\*
- ordinateur quantique
- quantum
- Quantum computing
- Quantum internet
- qubits
- téléportation quantique

At the bottom of the dashboard, there's a small link "Ma présence sur le Web".

<https://www.google.fr/alerts?authuser=1>

## Feedly.com

The screenshot shows the Feedly interface. On the left, there's a sidebar with navigation links like 'Today', 'Follow Sources', 'Create AI Feed', 'Search', 'Read Later', and 'Recently Read'. Below that is a 'Favorites' section with a pinned item 'veille technologique (ordinateur...)'. The main area is titled 'veille technologique'. It displays a news article from 'Quantum Zeitgeist by Quantum News' dated April 23, 2023, at 5:35 PM. The article is titled 'UCalgary's Quantum City qHub: A Pioneering Step in Shaping Alberta's Future in Quantum Technology'. It includes a photo of four people at a ribbon-cutting ceremony. A poll asks 'Is this article about Defense Industry?' with 'Yes' and 'No' options. Below the article is a snippet: 'The launch of UCalgary's Quantum City qHub, a collaborative hub for quantum technology research and development, signals Alberta's emergence as a leader in quantum innovation, poised to drive economic growth and contribute to global technological advancements.' There's also a 'Visit Website' button.

<https://feedly.com/i/collection/content/user/5936e956-132b-44ec-ad9fbe4fc81cd8d4/category/d2b3dbe8-4fa0-487b-895a-4a5b5034f658>

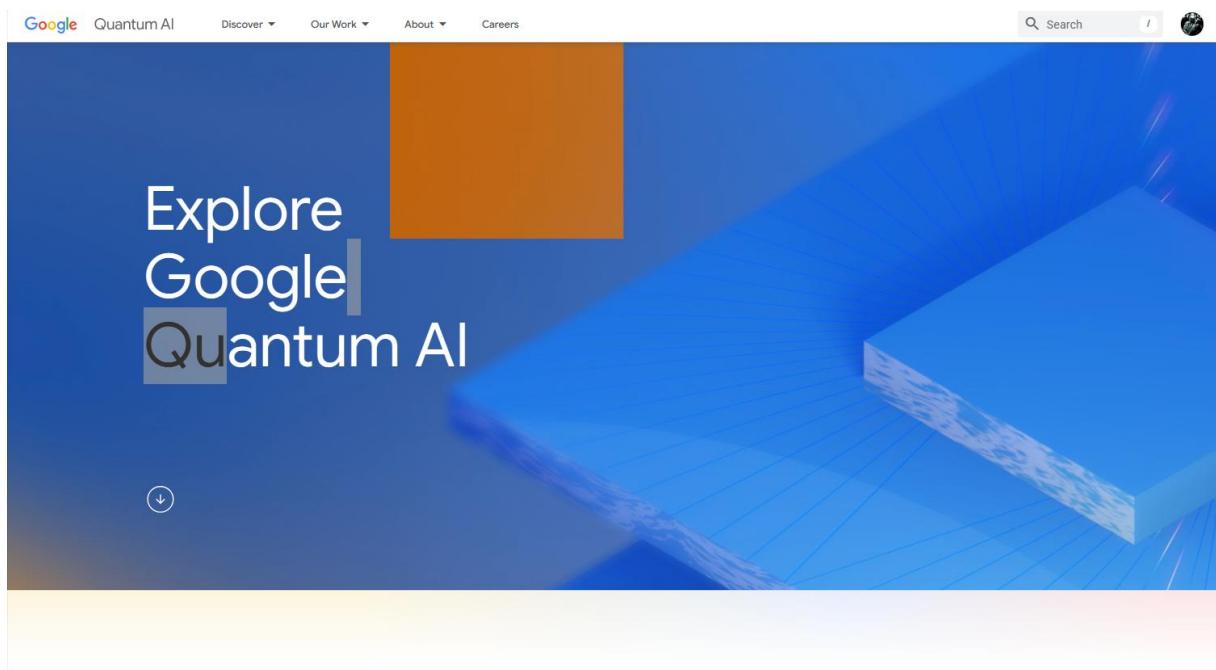
## Reddit

[r/QuantumComputing](https://www.reddit.com/r/QuantumComputing)

The screenshot shows the r/QuantumComputing subreddit homepage. The sidebar on the left has links for 'Home', 'Popular', 'Explore', 'All', 'Create a custom feed', 'RECENT', 'COMMUNITIES', and a 'Create a community' button. The main content area features the subreddit logo with a Greek letter Psi and the title 'r/QuantumComputing'. It includes a 'Community highlights' section with a 'Weekly Career, Education, Textbook, and Basic Questions Thread' (8 votes, 17 comments). Below that are several posts: one by 'w/Logineq' about scientists achieving quantum communication across 155 miles of conventional fiber optics; another by 'printempsderde' asking if there are any Quantum groups in Sydney; and a third by 'w/b1331' about a video explaining quantum computers visually. To the right, there's a sidebar for 'Quantum Computing' with a description, creation date (Sep 20, 2009), member count (69K), online users (30), and a 'Top 2%' badge. It also lists 'USER FLAIR' (eildemonoff) and 'RULES' with ten items ranging from account age to no AI-generated content.

Ressource	Lien	Description	Date consultée
<b>IBM Quantum</b>	<a href="https://quantum-computing.ibm.com">https://quantum-computing.ibm.com</a>	Plateforme de calcul quantique avec simulateurs et IDE Qiskit.	05/01/2025
<b>Qiskit Documentation</b>	<a href="https://qiskit.org/documentation/">https://qiskit.org/documentation/</a>	Lib Python open source pour coder des circuits quantiques.	10/01/2025
<b>Quanta Magazine</b>	<a href="https://www.quantamagazine.org">https://www.quantamagazine.org</a>	Articles de vulgarisation scientifique pointus et actu sur la physique quantique.	22/01/2025
<b>Microsoft Azure Quantum</b>	<a href="https://azure.microsoft.com/en-us/products/quantum/">https://azure.microsoft.com/en-us/products/quantum/</a>	Introduction au service de cloud quantique de Microsoft.	01/02/2025
<b>D-Wave Systems</b>	<a href="https://www.dwavesys.com">https://www.dwavesys.com</a>	Pionnier du calcul quantique basé sur l'annealing.	12/02/2025
<b>YouTube – ScienceEtonnante, Lex Fridman, Veritasium</b>	Divers liens	Vidéos explicatives sur la logique quantique, de la superposition et les qubits.	Tout au long
<b>ArXiv.org – Quantum Computing</b>	<a href="https://arxiv.org/archive/quant-ph">https://arxiv.org/archive/quant-ph</a>	Prépublications scientifiques sur les avancées dans le domaine.	02/03/2025
<b>GitHub – Awesome Quantum</b>	<a href="https://github.com/desireevl/awesome-quantum">https://github.com/desireevl/awesome-quantum</a>	Collection de ressources, outils, simulateurs et projets open source.	10/03/2025
<b>Google Quantum AI</b>	<a href="https://quantumai.google/">https://quantumai.google/</a>	Actus et projets de Google en calcul quantique.	20/03/2025

## Google Quantum AI



## Clubic

Informatique quantique : où en est-on ?

<https://www.clubic.com/technologies-d-avenir/actualite-854536-informatique-quantique.html>

Home > Technology > How 1,432 GPUs Cracked Google's 53-Qubit Quantum Computer

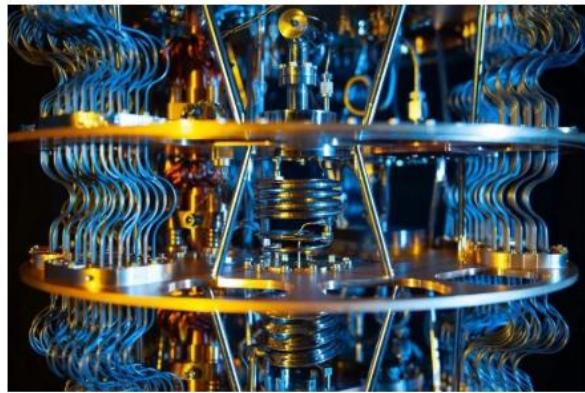
TECHNOLOGY

## How 1,432 GPUs Cracked Google's 53-Qubit Quantum Computer

BY SCIENCE CHINA PRESS – APRIL 21, 2025 1 COMMENT 3 MINS READ



SHARE



A view of the Google dilution refrigerator, which houses the Sycamore chip.  
Credit: Google Quantum AI

Researchers have achieved a major leap in quantum computing by simulating Google's 53-qubit Sycamore circuit using over 1,400 GPUs and groundbreaking algorithmic techniques.

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<https://scitechdaily.com/how-1432-gpus-cracked-googles-53-qubit-quantum-computer/>

# RSS.app

The screenshot shows the RSS.app web application interface. On the left, there's a sidebar with navigation links like 'My Feeds', 'Bundles', 'Collections', 'Bots & Alerts', and 'Explore'. Below that is a 'Starred' section with several feed items. At the bottom of the sidebar, there's a 'Trial' section indicating '6 days left' and a progress bar for 'Feeds' at '6 / 15', with an 'Upgrade' button. The main area is titled 'My Feeds (6)' and lists six feeds in a grid:

- quantumComputer - Reddit Search! (https://www.reddit.com/search/?q=quantumComputer)
- The most insightful stories about Programming - Medium (https://medium.com/topic/programming)
- quantum - Reddit Search! (https://www.reddit.com/search/?q=quantum)
- Google News INFORMATIQUE QUANTIQUE (https://news.google.com/search?q=informatique%20quantique&hl=en-US...)
- Technology (https://rss.app/rss-feed?topicid=technology)
- Google News INTERNET QUANTIQUE (https://news.google.com/search?q=internet%20quantique&hl=en-US&gl=U...)

At the bottom right of the main area, there's a blue 'Add Feed' button.

<https://rss.app/myfeeds>

## YouTube – IBM Research, Coding Tech

The screenshot shows the YouTube channel page for 'IBM Research'. The channel has 108k subscribers and 862 videos. The main video thumbnail is titled 'A lab for the future of computing' and has 17056 views. Below the main video, there's a section titled 'Pour vous' featuring four recommended videos:

- IBM Sounds of semis - 3D Integration (2.1k vues • il y a 4 mois)
- IBM Sounds of semis - Next-Gen Interconnect (798 vues • il y a 4 mois)
- IBM Sounds of semis - Nanosheet (814 vues • il y a 4 mois)
- IBM Sounds of semis - Analog AI (700 vues • il y a 4 mois)