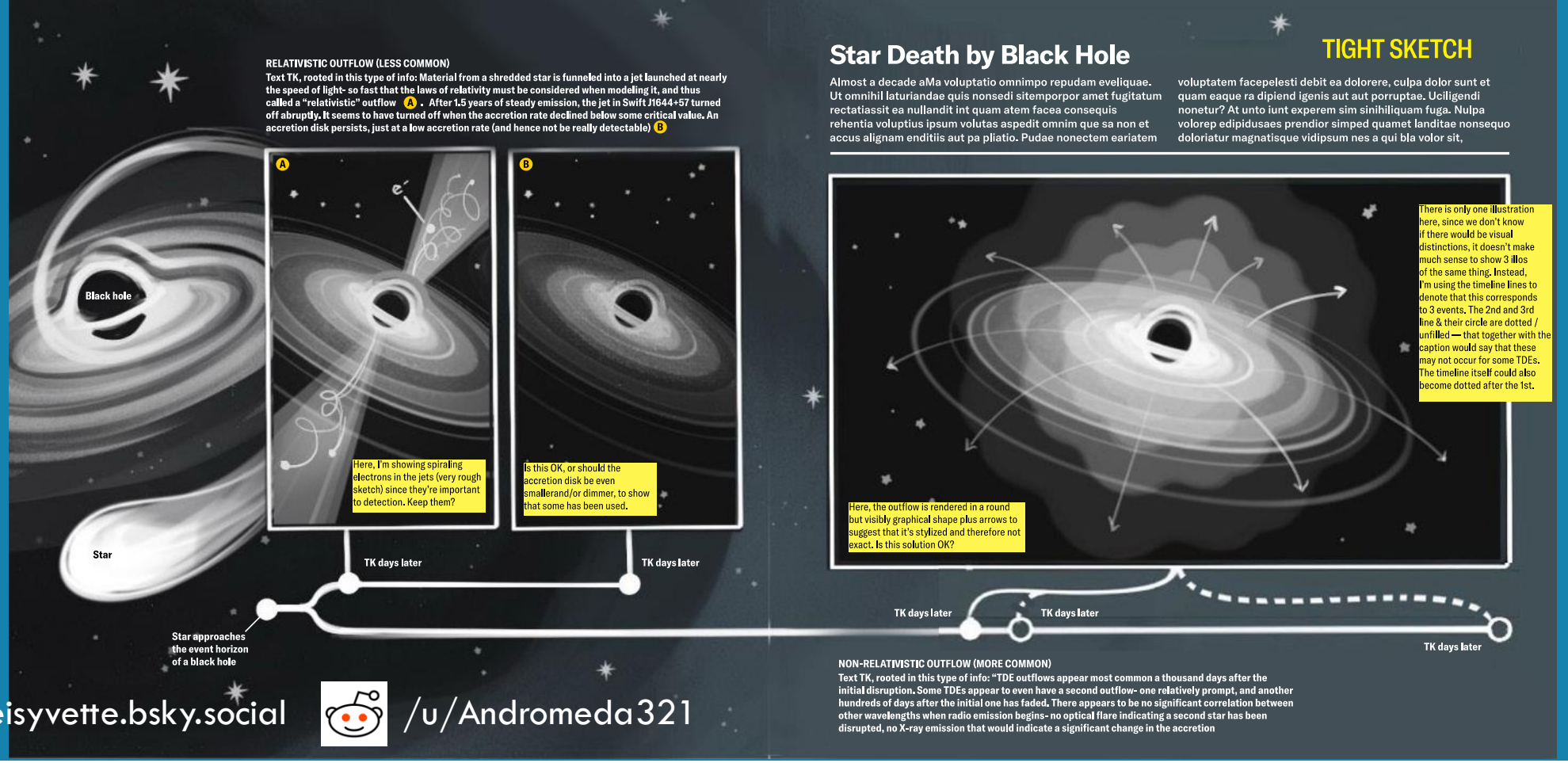


@whereisyvette.bsky.social

/u/Andromeda321

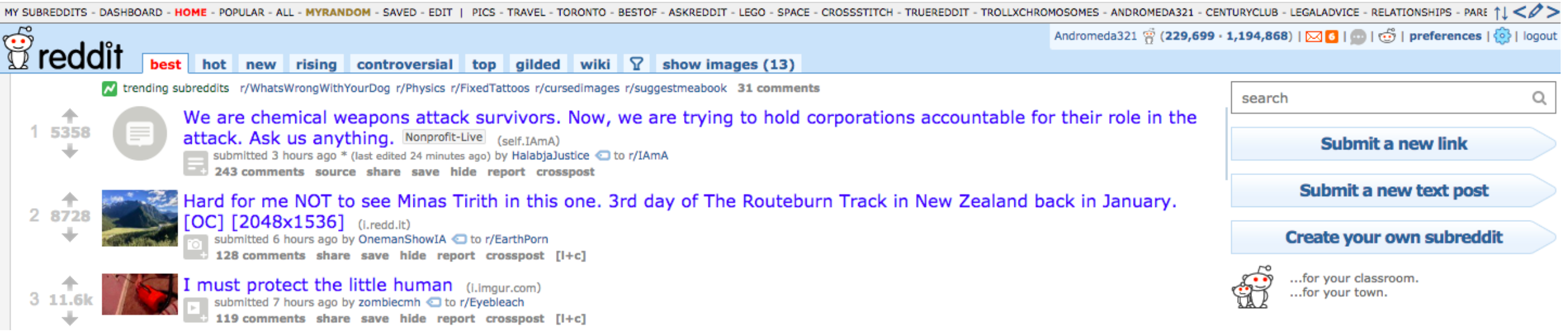
SOME OF MY OUTREACH PROJECTS

LIGO GWANW

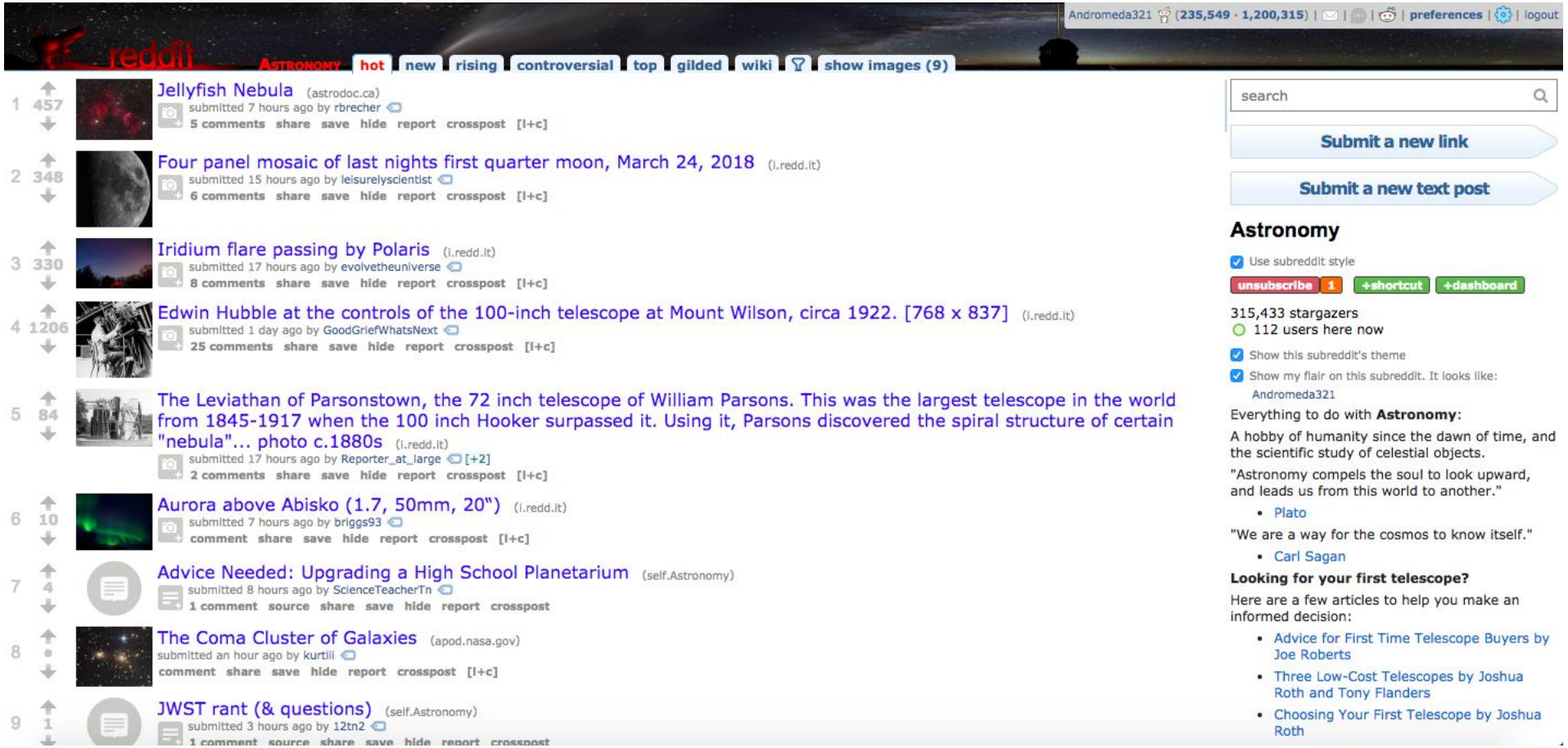
Yvette Cendes
University of Oregon
6/10/25

WHAT IS REDDIT?

- Reddit is an entertainment/ news website where registered community members can submit content, and comment on submissions
- 9th most visited website in the world (430 million monthly users), ~half from the USA
- Space/astro is huge on Reddit- 30 million subscribers on the biggest space/science subs!



SUBREDDITS FOCUS ON A TOPIC…



SUBREDDITS CAN BE ON ANYTHING…

ANDROMEDA321

ASTRONOMER HERE!

HOT ▾

1531 STICKIED **(UPDATED!) So you want to be an astronomer…** ✓ (self.Andromeda321)
submitted 5 years ago * (last edited 2 months ago) by Andromeda321 - announcement
175 comments source share save hide delete spam remove unlock nsfw spoiler crosspost

70  **Road tripping up to LIGO via the Columbia River Gorge… and it is gorge-ous!!!** (i.redd.it)
submitted 15 hours ago by Andromeda321
7 comments share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

524 REDDIT **Omg- the students in our department made trading cards for all the professors, and this one's mine!** 🤩 (reddit.com)
submitted 12 days ago by Andromeda321
20 comments (11 new) share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

198  **Finished last night- a periodic table showing the origin of the elements, in cross stitch!** (i.redd.it)
submitted 23 days ago by Andromeda321
5 comments share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

229 SELF **Man, teaching is a LOT** (self.Andromeda321)
submitted 1 month ago by Andromeda321
7 comments (1 new) source share save hide delete spam remove approve lock nsfw spoiler crosspost

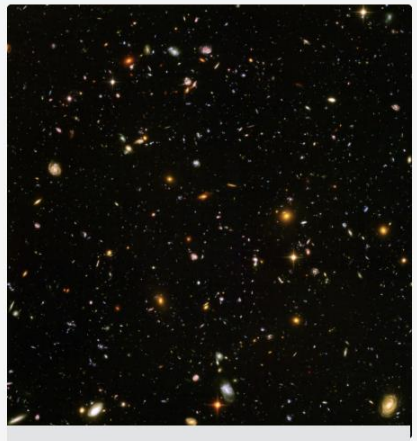
20 STICKIED **Q&A thread: June/July 2025** (self.Andromeda321)
submitted 8 days ago by Andromeda321 - announcement
9 comments source share save hide delete spam remove approve lock nsfw spoiler crosspost

170 SELF **Good news- looks like we're starting the first astronomy minor (and someday major) in the state of Oregon!!!** (self.Andromeda321)
submitted 6 days ago by Andromeda321
8 comments source share save hide delete spam remove approve lock nsfw spoiler crosspost

111  **Lovely time visiting my hometown this long weekend! I've been many places but Pittsburgh still has some of the loveliest views** 😍 (i.redd.it)
submitted 13 days ago by Andromeda321
2 comments share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

77  **I've appeared on a recent episode of the podcast "The LiUniverse"- talking about shredding stars and black holes! Check it out!** (youtu.be)
submitted 26 days ago by Andromeda321
5 comments share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

159  **I feel they're totally channeling the creepy twins from The Shining whenever I turn the corner and see this** (i.redd.it)
submitted 1 month ago by Andromeda321
3 comments share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]



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LINK TEXT

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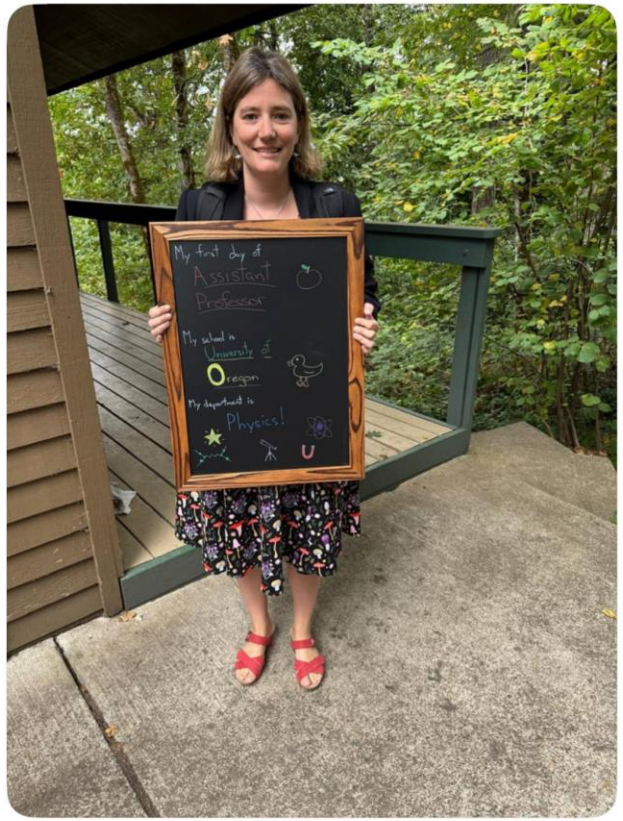
+dashboard -shortcut
17,295 readers 5 users here now
show this subreddit's theme

MY ACCOUNT, /U/ANDROMEDA321

r/Astronomy 267d

Astronomer here! Today is my first day as a professor!



38.6k 794 12 Share

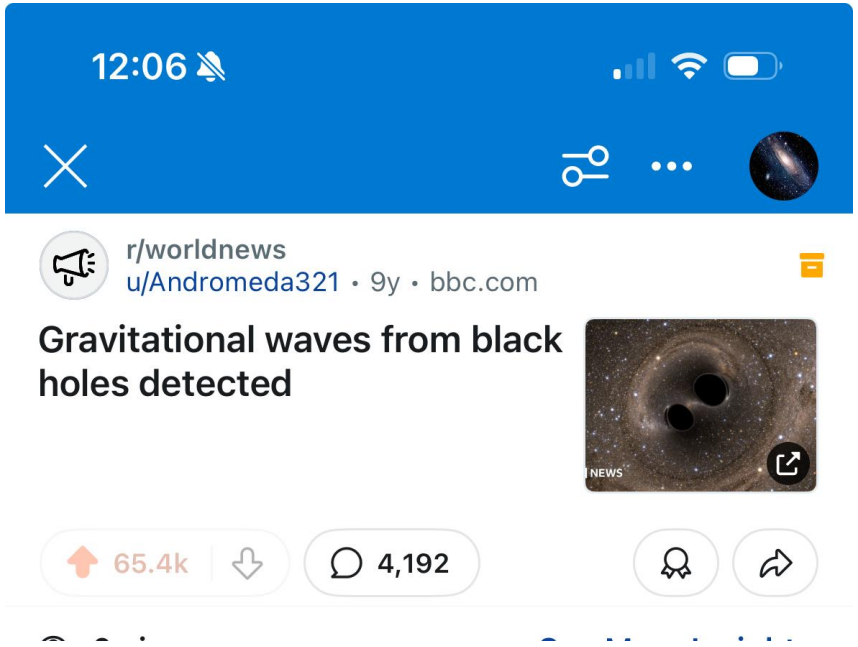
2.7M views See More Insights

r/space 2y

I cross stitched the Carina Nebula, one of the first JWST images!

42.9k 247 Share

2.2M views See More Insights



COMMENTS ARE IMPORTANT TOO!

HOW TO DO SOME REDDIT OUTREACH

- /r/askscience and /r/science are more heavily moderated, and scientists get a special badge to identify expertise
- Post comments as an individual, not an organization ("I'm a science communicator at X Observatory and…")
- **Don't** bog down in details. **Do** embed links in line
- Timing is everything! Comments posted in a "rising" thread get the most noticed (after a few hours on the front page, even good content can be buried)

IAMA ASTRONOMER! AMA!

- "Ask Me Anything!" (AMA) events bring people with a "unique experience" to the website, and the public asks questions
- Can be done by an individual, research group, organization…
- Can schedule for a certain time by messaging moderators of a subreddit
- /r/IAMA is the main subreddit, but they are also scheduled in /r/science, /r/askscience

MOVING ON… GUINNESS WORLD RECORDS

(Probably) related to my Reddit outreach, I am also the astronomy editor for the *Guinness Book of World Records* (GWR)

Astronomy is defined for these purposes as "everything outside the solar system"

Astronomy

Closest black hole to Earth
Gaia BH1 is located 1,560 light years away from Earth in the constellation of Ophiuchus. It was found in Jan 2023 by Harvard astronomer Kareem El-Badry and his team, who spotted a Sun-like star that was orbiting a massive, but invisible, companion. The black hole has a mass 9.62 times that of our own Sun.

Closest star
At "just" 149.6 million km (93 million mi) from Earth, the Sun is considered astronomically close. The **next-nearest star**, Proxima Centauri, is more than 250,000 times farther away.

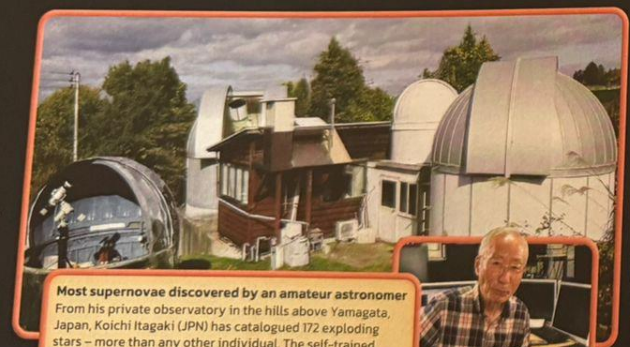
Brightest star viewed from Earth
Astronomers use a system called apparent magnitude, which describes brightness relative to the star Vega (which is zero on the scale). The higher the number, the dimmer an object appears to observers on Earth. Some exceptionally luminous objects can have negative magnitudes. Sirius A (or alpha Canis Majoris) has an apparent magnitude of -1.46.

Brightest object ever seen
On 9 Oct 2022, the GRB221009A gamma-ray burst was dubbed the "BOAT" (Brightest Of All Time) by astronomers. This cosmic explosion was 70 times brighter than any previously recorded event. It reached a peak of 6.5 million gamma-ray photons per second, each carrying an energy of 18 teraelectronvolts – or around two times the power that the Large Hadron Collider can impart on particles.

Largest galaxy
Located at the centre of the Abell 2029 galaxy cluster, IC 1101 has a major diameter of 5.6 million light years – around 50 times larger than our own Milky Way. Its light output is equivalent to 2 trillion Suns.

Most distant black hole
CEERS 1019 was discovered by the James Webb Space Telescope at a distance of 13.1 billion light years, which means it formed just over 570 million years after the Big Bang. The black hole is 9 million times more massive than the Sun, which is actually surprisingly small for black holes found in the early universe.

Youngest person to discover an exoplanet
Tom Wagg (UK, b. 30 Nov 1997) was 15 years 75 days old when he found the gas giant WASP-142b on 13 Feb 2013. He was examining sky survey telescope data from the WASP (wide-angle search for planets) collaboration, an hour after starting his work-experience placement at Keele University. It took two years for the existence of Wagg's exoplanet to be confirmed by follow-up observations.



Most supernovae discovered by an amateur astronomer
From his private observatory in the hills above Yamagata, Japan, Koichi Itagaki (JPN) has catalogued 172 exploding stars – more than any other individual. The self-trained astronomer scours the sky with seven computer-controlled telescopes situated across Japan. His most recent discovery – a spectacular supernova named SN 2023ixf in the Pinwheel Galaxy – was logged in May 2023.

Eyes on the skies
Although Earth-based observatories still play an important role, many of the new discoveries mentioned on these pages were found using one of the three space telescopes shown below. By working in space, they avoid the issues of light pollution and electromagnetic radiation that can affect observations from Earth. The **first space telescope** – the US-made *OAO-2* – launched in 1968.

Kepler (2009–18)
Designed to continuously monitor stars for signs of exoplanets; it lays claim to the **most exoplanets discovered by a telescope** – 2,778.

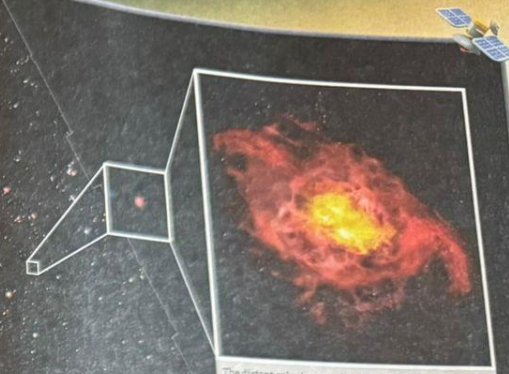
1 m

Gaia (2013–)
Continually measures the location, brightness and movement of 1.8 billion celestial objects as part of the **largest astrometric survey**.

1 m

James Webb Space Telescope (2021–)
Built to see infrared light, this is the **largest space telescope**, with a 6.5 m (21-ft) primary mirror.

1 m



The distant galaxies revealed by JADES would have been smaller and less defined than the giant multi-armed spiral of our own mature galaxy, the Milky Way. This illustration shows what astronomers believe these early galaxies may have looked like.

MOST DISTANT CONFIRMED GALAXY
In Dec 2022, astronomers studying data from the James Webb Space Telescope (JWST; see *left*) announced the discovery of a galaxy called JADES-GS-z13-0 (or z13 for short), which has a redshift of 13.2. This means that the light which reached the telescope had been travelling for 13.2 billion years, and originated just 325 million years after the Big Bang – making z13 also the **oldest galaxy**.

Due to the ongoing expansion of the universe, z13 is now an estimated 33.6 billion light years away from Earth. To put it in the terms used in our first edition (*see right*), that's 317,900,801,000,000,000,000,000 km (or 197 trillion billion mi)!

Galaxy z13 was found by the JWST Advanced Deep Extragalactic Survey (JADES), which focused the telescope on a tiny patch of seemingly empty darkness – about a tenth of the size of the full Moon – between the stars of the constellation Fornax.

This record was the first text entry in 1955's GWR annual. It was credited to "extra-galactic nebulae".

ONE

THE UNIVERSE

REMOTEST KNOWN BODIES

The universe is the entirety of space and matter. The remotest known heavenly bodies are extra-galactic nebulæ at a distance of some 1,000 million light years or 6,000,000,000,000,000,000,000 miles. There is reason to believe that even remoter nebulæ exist but, since it is possible that they are receding faster than the speed of light (670,455,000 m.p.h.), they would be beyond man's "observable horizon".