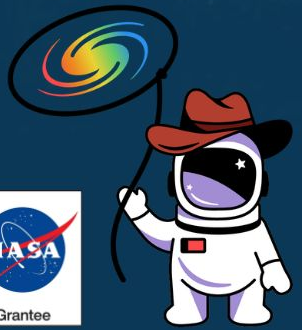
Do NASA Science LIVE!

with Redshift Wrangler



December 11, 2025

SciStarter
Science we can do together.

NASA Grantee

Join NASA researchers and discover the secrets of the universe, search for life elsewhere, and protect and improve life on Earth and in space.

SciStarter.org/NASA-LIVE



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WELCOME
Whether you are joining from home or from a local watch party at a library, museum, or cafe!
Become a satellite event host: SciStarter.org/NASA

~We’re about to get started~

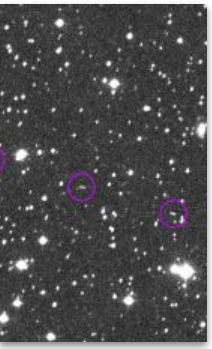
It’s a good time to create your free SciStarter account.

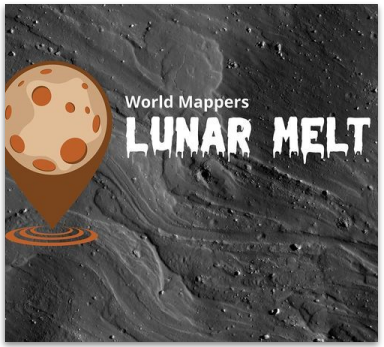


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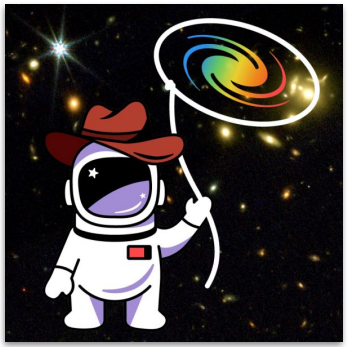
NASA Citizen Science

There are more than 35 NASA Science projects that need your help!



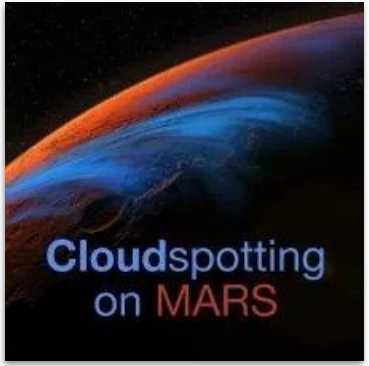


















Science.NASA.gov/citizen-science/

Do NASA Science LIVE!

2026 dates released!

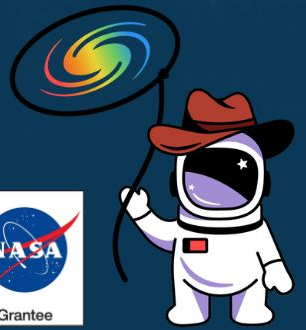


Hold your spot:
SciStarter.org/NASA-LIVE

CITIZEN SCIENCE MONTH

Do NASA Science LIVE!

with Redshift Wrangler



December 11, 2026

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SOLAR SYSTEM AMBASSADORS

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A global hub for citizen science participation:

- *Free accounts for volunteers and institutions*
- *The largest database of citizen science projects*



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Citizen Science is Serious Science

A global movement that enables people from all walks of life to contribute to real scientific research in collaboration with scientists.

Anytime, from anywhere.

Participatory Research, Community Science, Neighborhood Science, Civic Science, Crowdsourcing

Welcome to our Ambassadors!

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AMBASSADOR

for

CITIZEN SCIENCE



Become a SciStarter Champion



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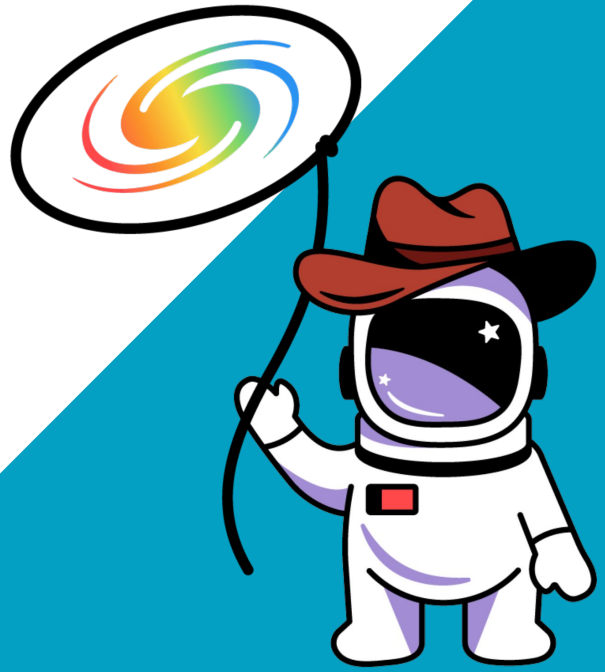
CITIZEN SCIENCE

Do NASA Science LIVE!

With Redshift Wrangler



Sadie Coffin
Project Manager



SOLAR SYSTEM AMBASSADORS

SciStarter

NASA Grantee

Participation Set Up

- Step 1: Create your **SciStarter** Account
- Step 2: Create your **Zooniverse** account with the same credentials and take note of your username
- Step 3: Revisit SciStarter and **add your Zooniverse username** to your SciStarter account (click “my info & settings” then scroll down to “Affiliation Integration”)
- Step 4: Visit **Redshift Wrangler** to get started!

Free Flyer to Keep You Going

SciStarter.org/go/DNSL-RW-flyer



BECOME A GALAXY DETECTIVE WITH REDSHIFT WRANGLER

Do NASA Science LIVE!

Look at real light from faraway galaxies and help scientists learn more about the Universe using citizen science. **No experience needed, just curiosity!**

Learn more about **Redshift Wrangler**

SciStarter.org/Redshift-Wrangler

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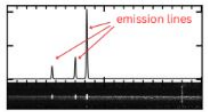
Become a galaxy detective with Redshift Wrangler!

What are we looking at? Galaxies give offlightin manycolors. When we spread the light into a *spectrum* (using something like a prism), some colors shine brighter than others. Those bright spots are called **emission lines**, and they help scientists learn more about the galaxy, like what it's made of and how far away it is.

Here are three steps to help you get started and investigate the spectral fingerprints of distant galaxieswith RedshiftWrangler:

STEP 1: Look for tall, skinny, spikes in the graph.

*These spikes are **"emission lines."** They are places the galaxy is glowing brighter in a specific color of light.*

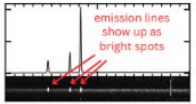


Galaxy = a huge collection of stars, dust and gas

Spectrum = the light from the galaxy, spread out into colors

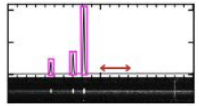
STEP 2: Look for bright blobs in the picture below the graph.

*These blobs sit directly below spikes in the graph and show exactly where the galaxy is shining in that color. If you see a spike and a matching blob, you've found a real **emission line**!*



STEP 3: Use the drawing tool to box every spike you can find.

*Draw a box around **every emission line spike** in the graph. The bright blobs can help you make sure you've found the right ones.*



Redshift: the light from distant galaxies gets *stretched* as the Universe expands, making emission lines appear at redder colors. The position of the lines tells us how much the galaxy's light has shifted (it's *redshift*!)

Why does this matter? By finding emission lines, you're helping scientists measure galaxy distances and discover how galaxies grow and evolve across cosmic time. Thanks for all of your help, we couldn't do it without you!

You're officially a Redshift Wrangler! You can help us inspect more real galaxy data on Zooniverse



SciStarter.org/go/do-nasa-live-survey