



You Can Be A Scientist Too!

Citizen & Data Science @ **NASA**

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Questions We'll Answer Today

It's rocket
[data] science!



1. What is citizen & data science?
 2. How does NASA use citizen & data science for space science & exploration?
 3. How can I get involved (or be a NASA Scientist too)?
-

Who do you think of
when you think
of the word,
“scientist” ?



citizen science =

Anyone
can be a scientist!

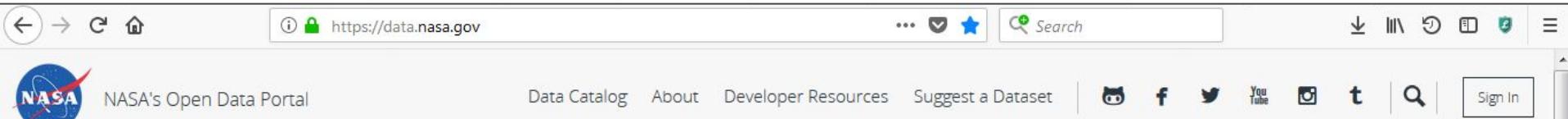




Data Science

1. Asking questions.
2. Defining the data/info needed.
3. Identifying the type of analysis needed and performing it.
4. Communicating findings.

Data Science in Action!



A screenshot of a web browser displaying the NASA Open Data Portal. The URL https://data.nasa.gov is visible in the address bar. The page features a large banner image of the International Space Station (ISS) against a dark background with stars. Overlaid on the banner is the text "Welcome to NASA's Data Portal" in large white letters. Below the banner, there is descriptive text about the portal's purpose and a search bar. The top navigation bar includes links for Data Catalog, About, Developer Resources, Suggest a Dataset, and social media icons for GitHub, Facebook, Twitter, YouTube, Instagram, and LinkedIn. A "Sign In" button is also present.

NASA's Open Data Portal

Data Catalog About Developer Resources Suggest a Dataset

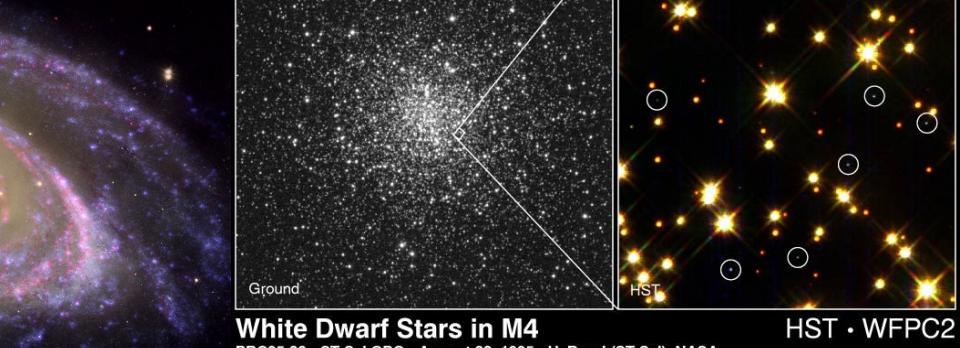
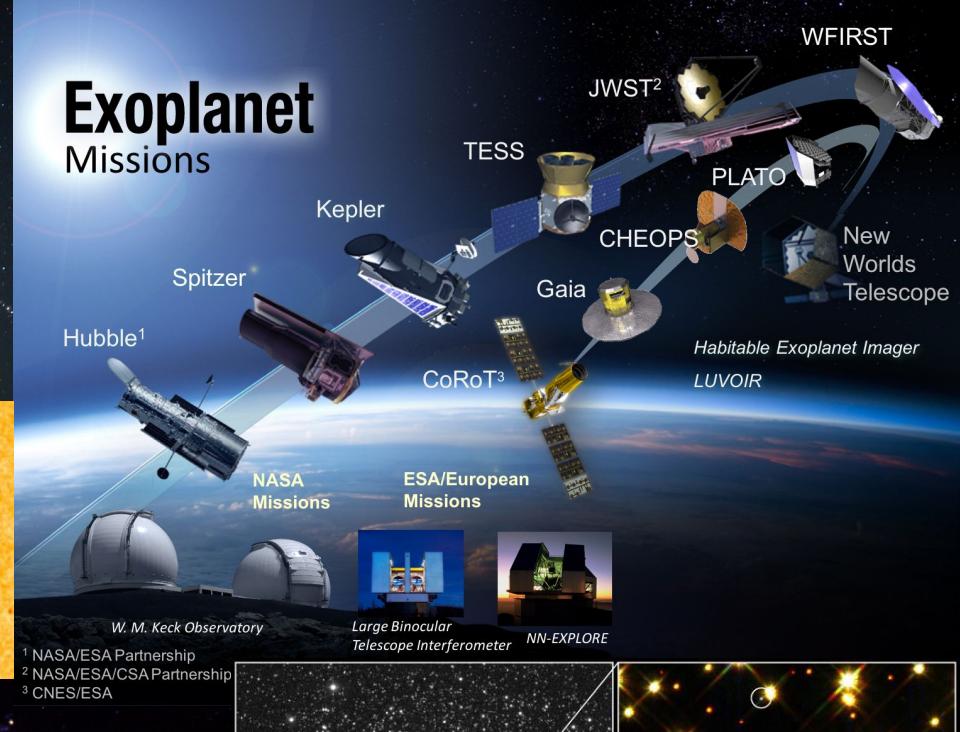
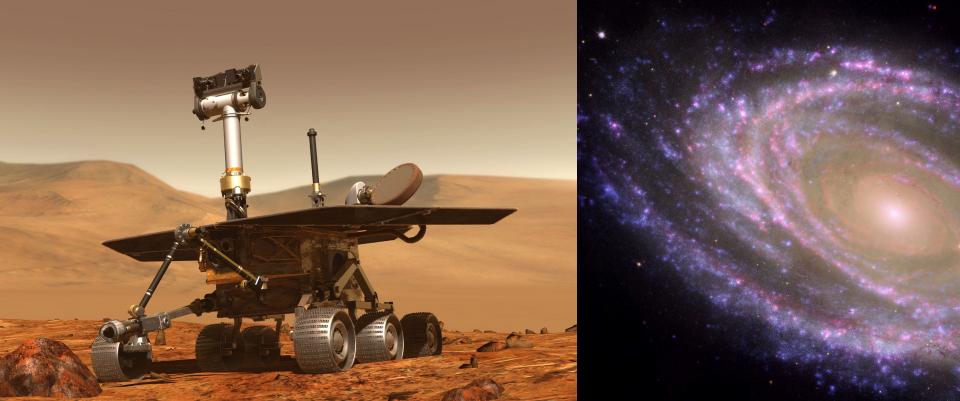
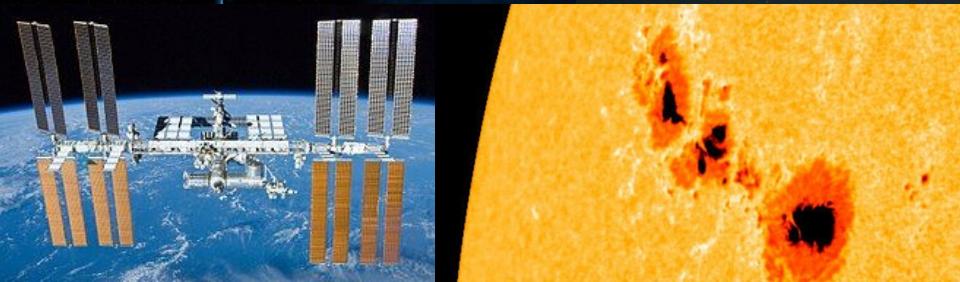
GitHub f Twitter YouTube t Sign In

This site is a continually growing catalog of publicly available NASA datasets, APIs, visualizations, and more!

 Search



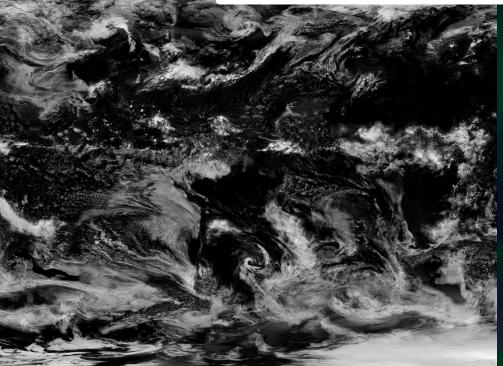
Data Science @ NASA



White Dwarf Stars in M4

Ground, STS-107, HST, WFPC2

HST • WFPC2



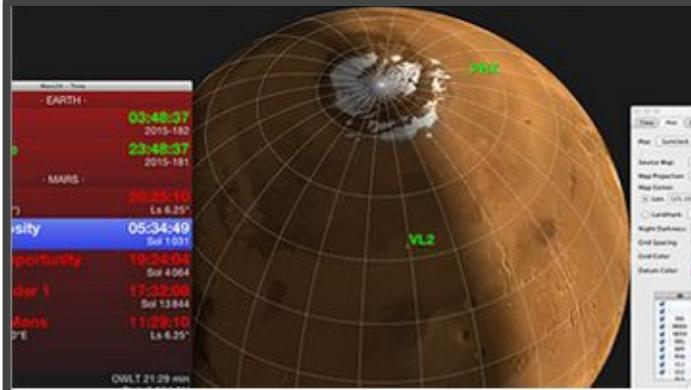
NASA Datanauts

1. Engage with NASA's open data to create innovative new processes and products.
2. Introduce and advance data science skills.
3. Outreach & create a vibrant data problem-solving community.

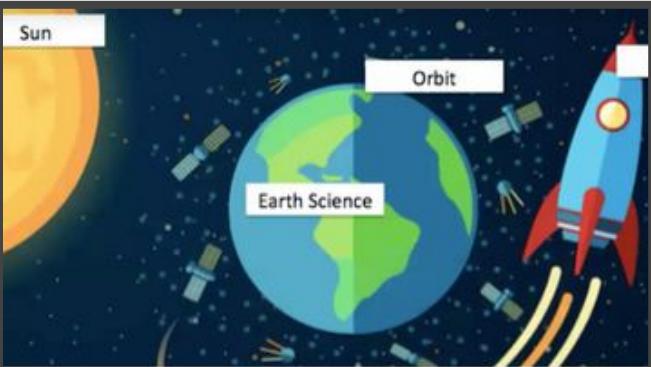




Sonification of Data for Better
Data Understanding and
Exploration



NASA's Mars24 Timekeeping
Algorithm in R



Mapping the NASA Dataverse



Friendship 7 3D Visualization



Print My Rocket



How YOU Can Be A **NASA** Scientist

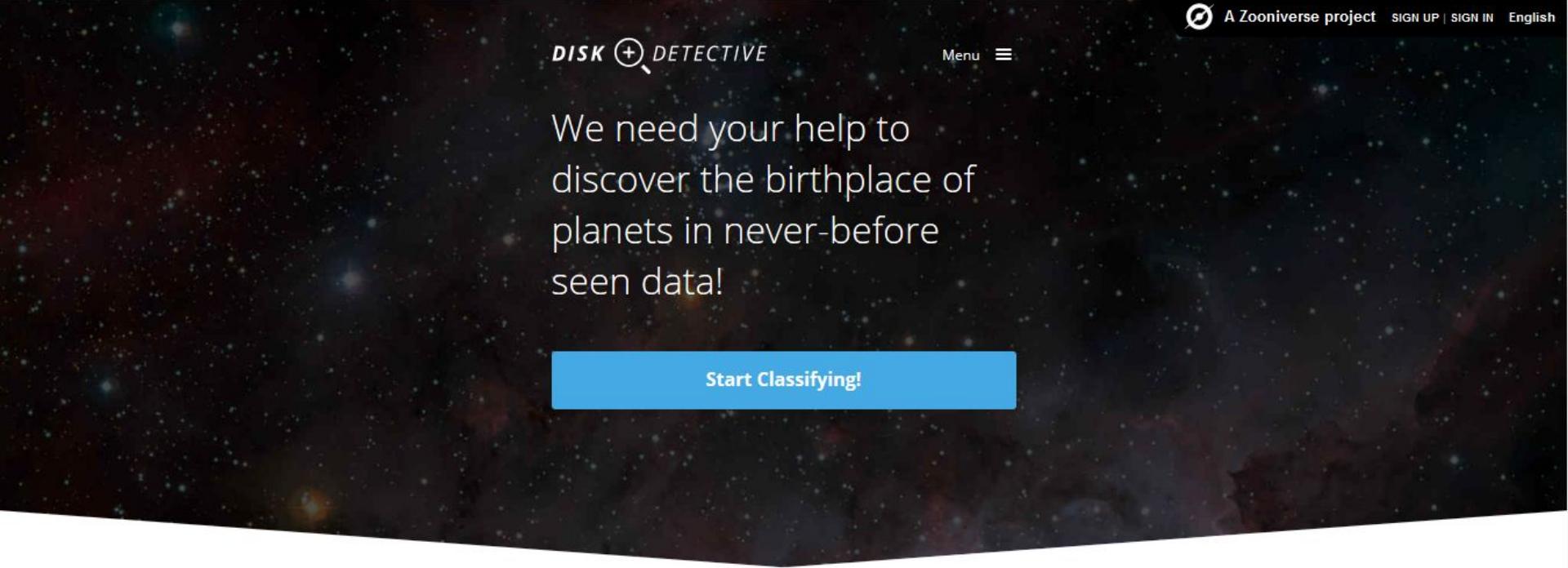
Citizen Science Projects for Everyone



**Help scan the realm beyond
Neptune for brown dwarfs and
planet nine.**

[Learn more](#)[Get started](#)

We need your help to
discover the birthplace of
planets in never-before
seen data!



Start Classifying!





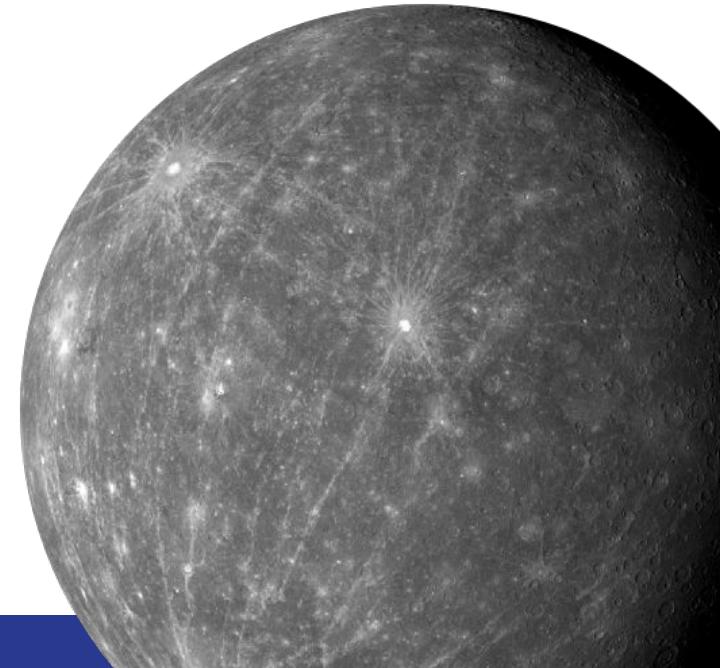
NASA and GLOBE Launch New Opportunity for Citizen Scientists

Want to be a citizen Earth scientist?
Join GLOBE Observer.

Find Other Citizen Science Projects

@ science.nasa.gov/citizenscientists

- Aurorasaurus
- Galaxy Zoo
- S'COOL
- And Many More!





ABOUT

NEWS

SAVE THE DATE!

NASA's International Space Apps Challenge
is October 19-21, 2018.

APPLY TO HOST

This year's theme: Earth and Space!
[2018.SPACEAPPSCHALLENGE.ORG](http://2018.spaceappschallenge.org)

A green rectangular banner with white text. The background features a collage of white line-art icons related to space exploration, science, and technology, such as a globe, a recycling symbol, a telescope, a wrench, and a lightbulb.

A GLOBAL COMMUNITY

Thank You!



NASA