

Education, Citizen Science & the Zooniverse

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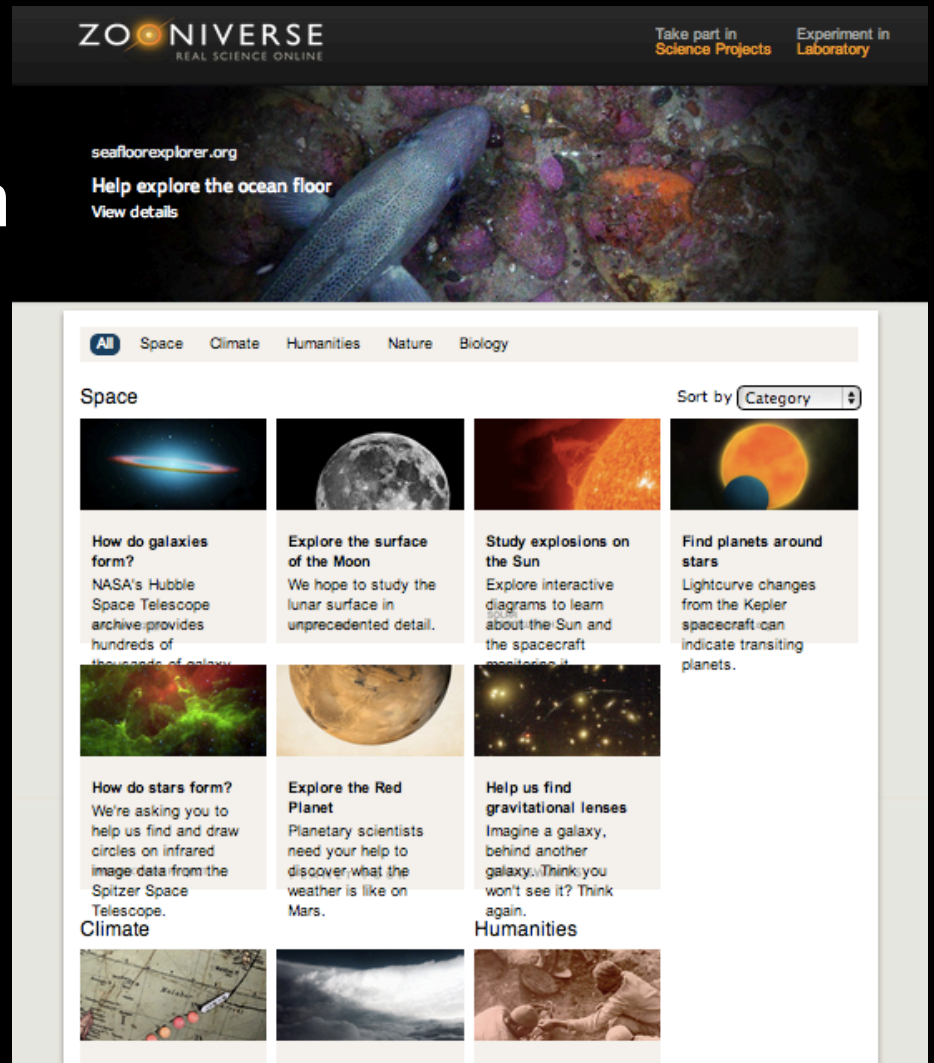


@ZooTeach



What we do....

Zooniverse is a collection of online citizen science projects from across a variety of scientific disciplines (astronomy, biology, etc).





ZOONIVERSE
REAL SCIENCE ONLINE

Why Zooniverse in the classroom?

- Authentic scientific experience
- Real data
- Contributing to cutting-edge research
- Free

Zooniverse Education Resources

ZooTeach (zooteach.org)

zooteach

Where educators can share high quality lesson plans & resources that compliment the Zooniverse citizen science projects. [Find out more...](#)

Search

subjects



Sciences

Browse subjects including Astronomy, Biology, Physics and Chemistry.



Mathematics

Browse lesson plans and resources for teaching Mathematics.



Humanities

Browse subjects including Geography and History.



Arts

Browse subjects including English, Literature and Art.

ages



USA: Elementary School.
UK: KS1 & KS2 students.



USA: Middle School.
UK: KS3 students



USA: High School.
UK: KS4 & KS5 students.



Higher education.

Galaxy Zoo Navigator

[CLASSIFY](#)[SCIENCE](#)[STORY](#)[ASTRONOMERS](#)[DISCUSS](#)[PROFILE](#)

Navigator

Zooniverse Education ▼

My Galaxies

Graph Data

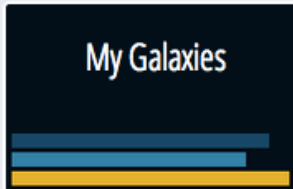
Welcome to the Galaxy Zoo Navigator, where you can investigate the galaxy classifications you have made as part of a group. To get started you will need to select the group you'd like to work with.

Classify Galaxies



Visit the Galaxy Zoo website to classify galaxies as part your group.

My Galaxies



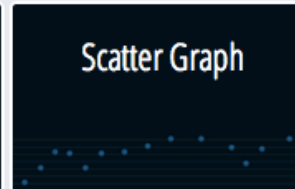
Compare your classification choices with those made by other volunteers.

Histogram



Investigate the characteristics of different galaxy types.


Scatter Graph



Compare the characteristics of different galaxy types.

The Navigator is based upon work supported by the National Science Foundation under Grants No. 1041419 and 0941610. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.


Skype in the Classroom



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Ms. Julie



Meet a Galaxy Zoo Scientist!

About this Skype lesson

Interested in citizen science and providing the opportunity for your students to talk to a research scientist?

We have put together a lesson for you and your class around the Zooniverse astronomy project, Galaxy Zoo - <http://www.galaxyzoo.org/>

Your students will learn about the role of classification in science and how it is used by Galaxy Zoo scientists.

Dr. Karen Masters from the Institute of Cosmology and Gravitation from the University of Portsmouth, UK will be our guest speaker.

This is our first lesson so this would be a test and we would ask for feedback from the teacher.

We are looking to test with about 5 classes by mid October. Please see the lesson plan in our resource section for more information on how the session would be structured.

Manage your lesson

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Zooniverse



Working with science teams, the Zooniverse puts massive data sets online and asks volunteers to...

About this Skype lesson


Looking for

A class

Student ages

6-11, 12-15

Guest speakers for this Skype lesson



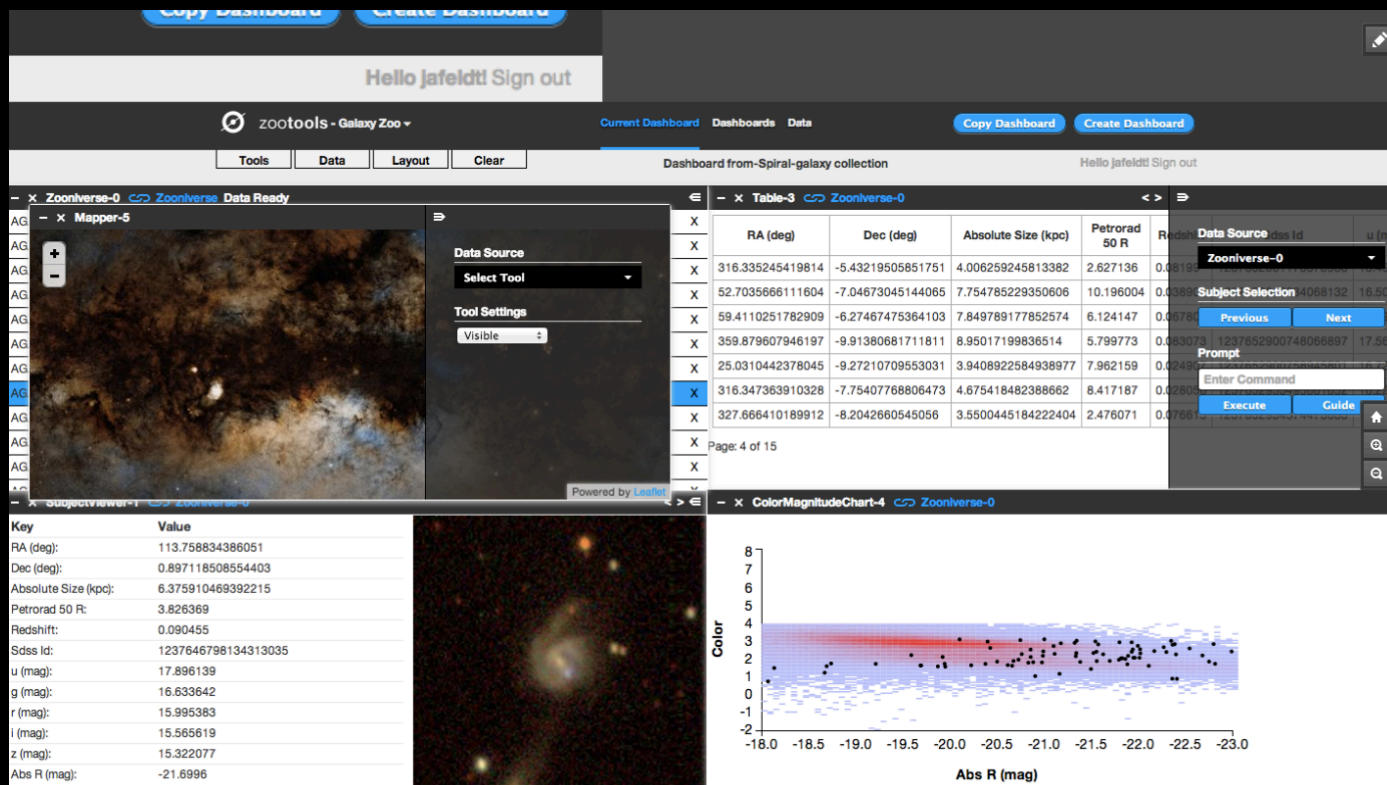
Dr. Karen Masters
✔ Guest Speaker
Dr. Karen Masters is based at the Institute of

ZooTools

tools.zooniverse.org

The screenshot displays the ZooTools web interface for the 'Spiral-galaxy' collection. The interface is organized into several sections:

- Header:** Includes a greeting 'Hello jafeldt! Sign out' and navigation links for 'Copy Dashboard' and 'Create Dashboard'.
- Navigation Bar:** Features tabs for 'Tools', 'Data', 'Layout', and 'Clear', along with a 'Current Dashboard' indicator and a 'Data' link.
- Main Content Area:**
 - Mapper-5:** A tool for mapping galaxies, showing a 'Data Source' dropdown, 'Tool Settings' (Visible), and a 'Powered by Leaflet' map.
 - Table-3:** A data table with columns: RA (deg), Dec (deg), Absolute Size (kpc), Petrorad 50 R, and Redshift. It displays a list of galaxies with their coordinates and sizes.
 - ColorMagnitudeChart-4:** A plot showing 'Color' (Y-axis, ranging from -2 to 8) versus 'Abs R (mag)' (X-axis, ranging from -18.0 to -23.0). The plot displays a distribution of galaxies, with a red line indicating a selection or trend.



Keeping Up With Zooniverse Education

Zooniverse Education Blog – education.zooniverse.org



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If you have any questions, please email education@zooniverse.org