

Celebrate Citizen Science with SciStarter and STAR Net

March 30, 2021

The webinar will begin at 12:00 p.m. (MT) and will be recorded.

While you're waiting

- 1) Find the toolbar – it will either be on the bottom or top of your Zoom window
- 2) Introduce yourself in the chat box (please select **“Share with Panelists and Attendees”** not **“Share with Panelists”**)
- 3) Click audio “Join by Computer” – you won’t have microphone access

Tip for viewing: You can resize and move the location of the video and slide screens by clicking and dragging them

Facilitator Introduction

- Caroline Nickerson (SciStarter)
- Laurie Fitzgerald (St. Charles City-County Library, MO)
- Judy Brown (San Miguel Library, a branch of the County of San Luis Obispo Public Libraries, CA)
- Barbara A. Shatara (Fletcher Free Library, VT)
- Katie Johnson (Lummi Island Heritage Trust, Partner of Whatcom County Library System, WA)

Today's Agenda

- **Welcome/Intro**
- **What is Citizen Science?**
- **SciStarter Overview**
- **Libraries as Hubs for Citizen Science**
- **Citizen Science Month 2021**
- **Library Showcases**
- **Citizen Science Resources**
- **Discussion and Q&A**

Poll Question

How long have people been participating in and contributing to citizen science?

- Late 1800s
 - 1920s
 - 1990s
 - 2006



CITIZEN SCIENCE
APRIL 2021 MONTH

scistarter

Science we can do together.

Citizen Science

A **collaboration** between scientists and those of us who are curious, concerned, and **motivated to make a difference.**

It's how people can make an impact on issues they care about...and help **science!**

Millions of
people enjoy
science and
nature.





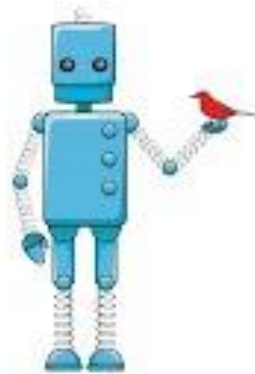
Thousands of
scientists need
volunteers.

*But they can't
find each other.*



We
connect
them.





scistarter
People-powered science.

SciStarter connects citizen scientists to over 3,000 projects, events, and tools.

scistarter™
Science we can do together.

Search [log out](#)

[My Account](#) [Project Finder](#) [CitSciDay](#) [Calendar](#) [Blog](#)



CITIZEN SCIENTISTS ARE
DISCOVERING
NEW WORLDS

FIND A PROJECT

Find a location

Select a topic

[find a project](#)

Featured Projects



credit:

Stream Selfie

★★★★★ (3)

Goal: Map streams across the country and start testing the waters.

Task: Simply snap a pic of your local stream and share it!

Where: Stream Selfie, United States of America



[search all projects](#)

Come and Participate



“SciStarter is the Amazon.com of Citizen Science,” Carl Zimmer, Discover Magazine

I think you'll be
delightfully surprised
by the quality of my work
on this assignment.
I crowdsourced it.



Because of citizen scientists, we now know....

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- Bird populations have **declined** by 50%

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- 50+ types of bacteria live in your belly button
- The first **flowering** of 19 species of plants has moved 9 days **earlier** over the past decade

Because of citizen scientists, we now know....

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- Birds are breeding earlier
- 50+ types of bacteria live in your belly button
- The first flowering of 19 species of plants has moved 9 days earlier over the past decade
- There's a new type of **aurora** in the night sky (and the citizen scientists named it **Steve!**)

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- There's a new type of aurora in the night sky (and the citizen scientists named it Steve!)
- There's another **Jupiter**-sized planet

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- There's another Jupiter-sized planet
- Invasive **mosquito** species have arrived in Germany

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- There's a new type of aurora in the night sky (and the citizen scientists named it Steve!)
- There's another Jupiter-sized planet
- Invasive mosquito species have arrived in Germany
- Plus...in one weekend in 2019, citizen scientists accomplished **2,566 research hours**, or 3.5 months of lab-equivalent research time, for an **Alzheimer's** research project



iNaturalist

IN THE
LAST DECADE,

92%



of all records of U.S.
butterflies and moths in
the Global Biodiversity
Information Facility
were uploaded through
iNaturalist.

Loarie 2016

SciStarter.org/library-resources



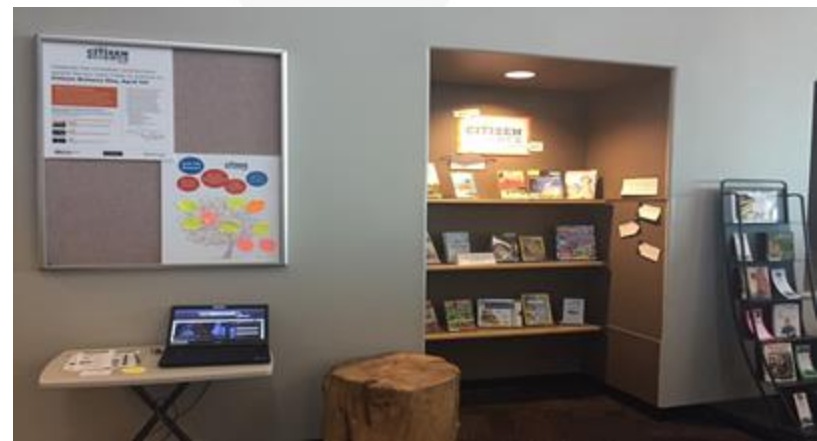
[Library Kits](#) » [Resources](#)

Welcome!

Resources for Librarians and Facilitators

These resources are designed to help you:

- Learn about and introduce Citizen Science to your communities
- Build your own kits! Download PDFs of project instructions and access supply lists for any tools or materials you need to purchase
- Use and promote your kits: Download promo fliers and kit check out cards







EXPLORING BIODIVERSITY

Document and identify plants and animals around you.



MEASURING LIGHT IN THE NIGHT

Help gather light pollution data.



MONITORING AIR QUALITY

Capture measurements using an AirBeam sensor.



STREAM MAPPING

Use wet/dry mapping to help chart streams near you.



ZOMBIE HUNTING

Is the Zombie Fly attacking bees in your neighborhood?



CHECK IT OUT!

CITIZEN SCIENCE
AT YOUR LIBRARY

Citizen Science Month

“Informing and engaging the **public** on the core principles and practices of **citizen science** and amplifying opportunities to participate through public **libraries, community-based** organizations, and other **trusted partners** during **April.**”

CitizenScienceMonth.org

From CitSciDay to CitSciMonth

- First Citizen Science Day: April 2016
- Events at the USA Science and Engineering Festival in collaboration with the National Park Service, City Nature Challenge, SciStarter, and the Federal Community of Practice
- Citizen Science Association: CitSciDay Working Group
- Stall Catchers Megathon in 2019: 1,500 citizen scientists completed 3.5 months of research in one weekend.
- CitSciMonth April 2020: Over 100 events



The Los Angeles Public Library won the Megathon in 2019, accomplishing more Alzheimer's research than any other team!

Crowdsourcing and Citizen Science: A National Library of Medicine Priority



Introduction to Citizen Science

What it is

Who can do it

How to join

Why participate

This graphic features a central image of a hand holding a smartphone displaying a nature scene. To the left, there are icons for a question mark and a person, with the text 'What it is' and 'Who can do it'. To the right, there are icons for a group of people and a person with a gear, with the text 'How to join' and 'Why participate'.

Open Source Online
Tutorial in English and
Spanish



Increase Diversity
in Participation



A grid of six project cards:

- GLOBE AT NIGHT**: Help gather light pollution data.
- FLU NEAR YOU**: Spread the word, beat the flu.
- DEBRIS TRACKER**: Submit sightings of litter where you are.
- ISEECHANGE**: Document and classify...
- STALL CATCHERS**: ...
- CROWD THE TAP**: ...

Featured Citizen
Science Projects

[SciStarter.org/NLM](https://www.ncbi.nlm.nih.gov/scistarter/)



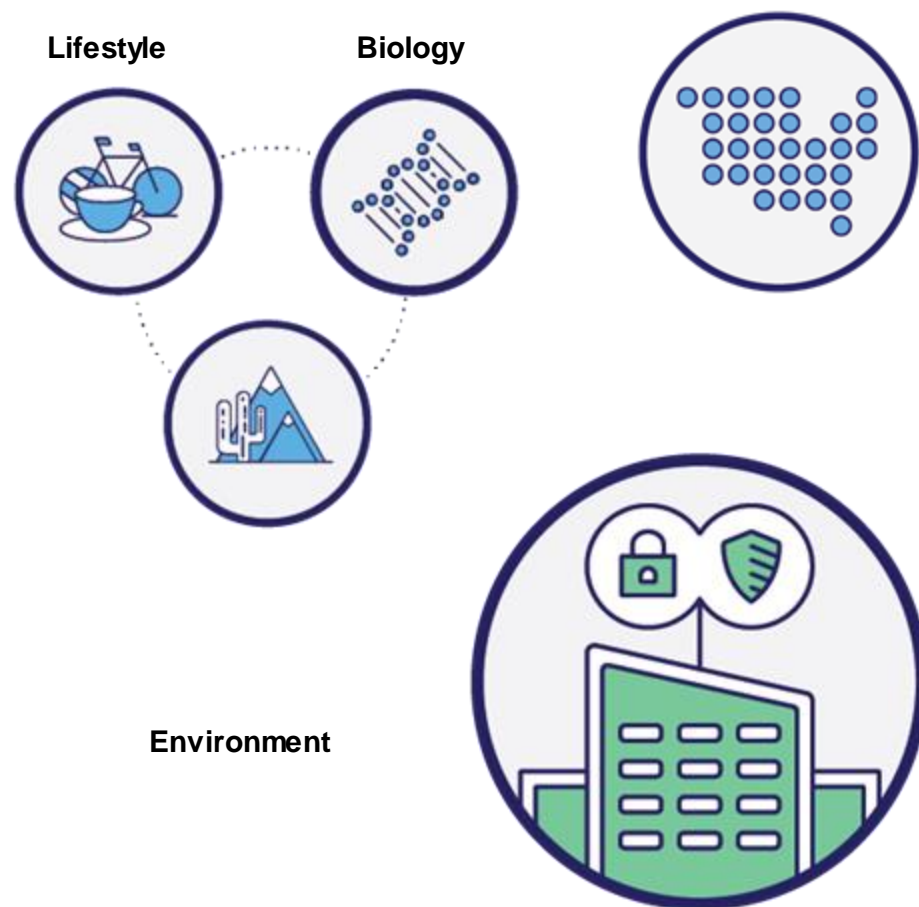
**The future
of health
begins
with you**



What is Precision Medicine?

Precision medicine is an emerging approach for disease treatment and prevention that takes into account individual variability in lifestyle, socioeconomics, environment, and biology.

It is a radical shift in how each of us can receive the best care possible based on our unique makeup.



Precision Medicine in Real Life

Right treatment for the right person:



Prescription
Eyeglasses



Insulin
Pump



Blood
Transfusions



Hearing
Aid

21
Shares

Share

Share

Tweet

Email

How One Million Volunteers Could One Day Revolutionize Medicine

By Eric Betz, Jan 19, 2021



An All of Us staff member sorts new samples from volunteers. (Credit: All of Us/NIH)

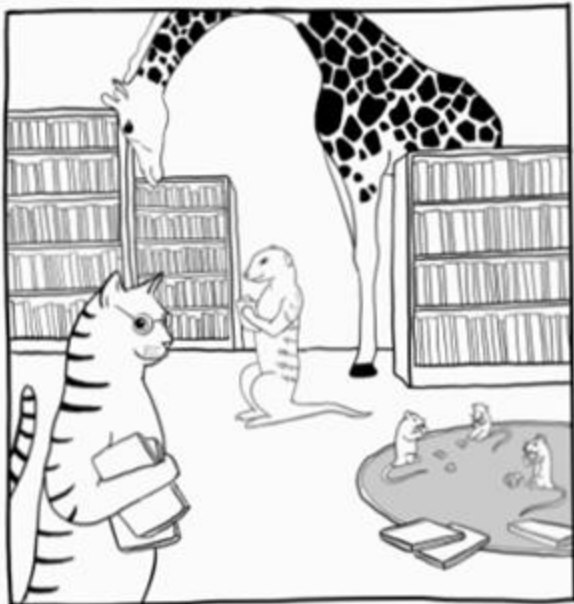
The future of individualized medicine may depend on an army of one million volunteers. And scientists want you to get involved.



All *of* **Us**
RESEARCH PROGRAM

joinallofus.org/nlm

PLAN YOUR OWN CITIZEN SCIENCE EVENT



CARLA IS A LIBRARIAN. SHE WANTS HER LIBRARY TO BE A PLACE WHERE PEOPLE CAN DEVELOP THEIR CURIOSITY AND MAKE AN IMPACT ON THEIR COMMUNITY.



SHE'S HEARD ABOUT CITIZEN SCIENCE, WHERE EVERYDAY PEOPLE COLLECT AND SHARE DATA WITH SCIENTISTS TO ACCELERATE RESEARCH.



CARLA SEES A POST ABOUT SCISTARTER.ORG, WHICH CONNECTS PEOPLE TO THOUSANDS OF CITIZEN SCIENCE PROJECTS AND LOTS OF FREE RESOURCES, INCLUDING THOSE FOR CITIZEN SCIENCE MONTH (CITSCIMONTH) IN APRIL.



SHE JOINS ONE OF THE PHONE CALLS OFFERED BY SCISTARTER EACH WEEK TO HELP PEOPLE HOST A CITSCIMONTH EVENT AND LEARNS ABOUT A CURATED PAGE OF SIX PROJECTS SELECTED BY THE NATIONAL LIBRARY OF MEDICINE. [SCISTARTER.ORG/NLM](https://scistarter.org/nlm)



CARLA WANTS TO ENGAGE THE SENIOR POPULATION USING THE DIGITAL RESOURCES AT HER LIBRARY, SO SHE PICKS THE PROJECT STALL CATCHERS, AN ONLINE GAME WHERE VOLUNTEERS CATEGORIZE IMAGES FROM BRAIN STUDIES.



SHE SELECTS A TIME AND DAY FOR THE SENIORS TO COME TO THE LIBRARY TO LEARN ABOUT CITIZEN SCIENCE AND PLAY STALL CATCHERS, TOGETHER.



SHE REGISTERS HER EVENT ON CITIZENSCIENCEMONTH.ORG, AND BEGINS SPREADING THE WORD! SHE CONTACTS OTHER COMMUNITY GROUPS AND USES FREE PUBLICITY MATERIALS AT CITIZENSCIENCEMONTH.ORG TO LET PEOPLE KNOW ABOUT HER EVENT.



THE CITIZEN SCIENCE EVENT IS A HIT! PEOPLE MAKE NEW CONNECTIONS IN THEIR COMMUNITY, AND THE BRAIN RESEARCHERS GET DATA. CARLA IS ALREADY GETTING REQUESTS TO DO ANOTHER EVENT AND SHE CAN TURN TO SCISTARTER.ORG TO FIND LOCAL OR GLOBAL PROJECTS!

LEARN MORE ABOUT
CITSCIMONTH,
FIND RESOURCES,
OR REGISTER YOUR
EVENT AT:
CITIZENSCIENCEMONTH.ORG

Illustrated by Iris Gottlieb

UPDATED
FOR
2021



The Library & Community Guide to Citizen Science

Understanding, planning and sustaining ongoing engagement
in citizen science at your library or community-based organization

December 2020

scistarter
Science we can do together.

ASU School for the
Future of Innovation
in Society
Arizona State University



Citizen Science Month offers thousands of opportunities for you to turn your curiosity into impact. There's something for everyone, everywhere! Join a project or event from wherever you are to help scientists answer questions they cannot answer without you.

Check out our featured projects below, which are perfect for beginners. You can also browse the featured events to join a virtual citizen science project. Together, we can move the world forward.

LEARN MORE

- [Explore Featured Projects](#)
- [Find an online event](#)
- [About Citizen Science Month](#)
- [What is Citizen Science?](#)

FOR FACILITATORS

- [Read this first! "Get Started" Welcome Letter](#)
- [Register your online event](#)
- [Download resources for online events](#)
- [Sign up for planning updates](#)
- [Frequently Asked Questions](#)

SIDE 2

Various projects are featured on bookmark backs

PROMO BOOKMARK - SIDE 1

**CITIZEN
SCIENCE
MONTH** APRIL 2020

*Join us and
celebrate all
things citizen
science!*

*Learn about amazing
discoveries, meet
incredible volunteers
and hardworking
practitioners,
and find a project to
get involved in!*

FIND PROJECTS!

Discover local and global projects in need of your help.
scistarter.com/citizen-science-day

JOIN THE MEGATHON!

Help advance research on Alzheimer's Disease.
stallcatchers.com

2.5 x 8.5

GENERAL BOOKMARK - SIDE 1

What is Citizen Science?

Citizen science is real science done by people like you! There are resources to match your interests with real scientific studies. Whether you share pictures from your garden to help track plant and animal species populations or take a walk in your own neighborhood with a personal air monitor, you can contribute!

Learn more: scistarter.org

scistarter
Science We Can Do Together

2.5 x 8.5

CITIZEN SCIENCE PROJECT: AirCasting



AirCasting is solution for collecting, displaying, and sharing health and environmental data using your smartphone. Use wearable sensors to detect changes in your environment and physiology, including the AirTeam.

Learn more: scistarter.org

CITIZEN SCIENCE PROJECT: Globe at Night



Collect light pollution levels using a Sky Quality Meter and use the Globe at Night app or website to report your data. The data is used to monitor levels of light pollution around the world as well as learn about the impacts of light pollution on energy consumption, plants, wildlife, and human health.

Learn more: scistarter.org

CITIZEN SCIENCE PROJECT: GLOBE Observer: Clouds



Download the app, go outside and observe your environment. Photograph clouds, record sky observations and compare them with NASA satellite images to help scientists understand the sky from above and below.

Learn more: scistarter.org

CITIZEN SCIENCE PROJECT: iNaturalist



Use your smartphone and clip-on lenses to take and share detailed pictures of nature and help create a living record of life on Earth. By recording and sharing your observations, you'll create research-quality data for scientists working to better understand and protect nature.

Learn more: scistarter.org



3" button with 1/2" bleed



POSTER 22 x 28



#CitSciMonth

CitizenScienceMonth.org

GET STARTED!
Create your SciStarter account

Username
What should we call you?

* Email
Email address

Zip Code
For finding projects in your area

* Password
Password

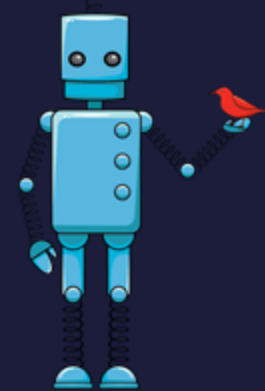
* Repeat password
Repeat password

Sign up for our newsletter

Agree to our [Terms of Use](#)

A SciStarter account is not required, but it saves you time when submitting data, tracks your contributions, and connects you with relevant projects and the wider citizen science community.

[Sign up](#) [Log in](#)



Make a SciStarter Account!

scistarter
People-powered science.

SciStarter.org/nlm



Image credit: Samantha Lloyd

Citizen science project: **Globe at Night**



Monitor light pollution by observing the **night** sky.

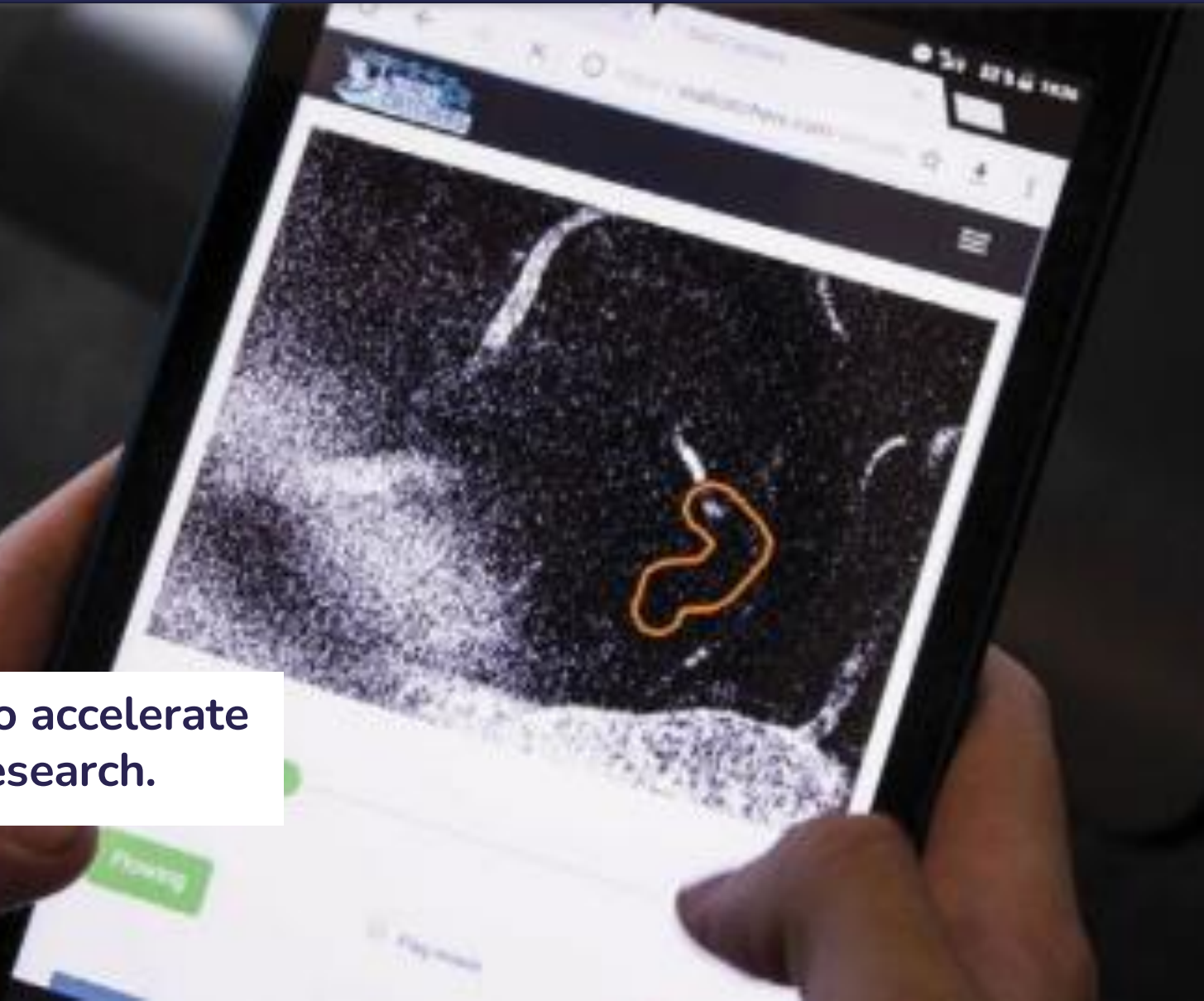
Citizen science project: **The Great Sunflower Project**



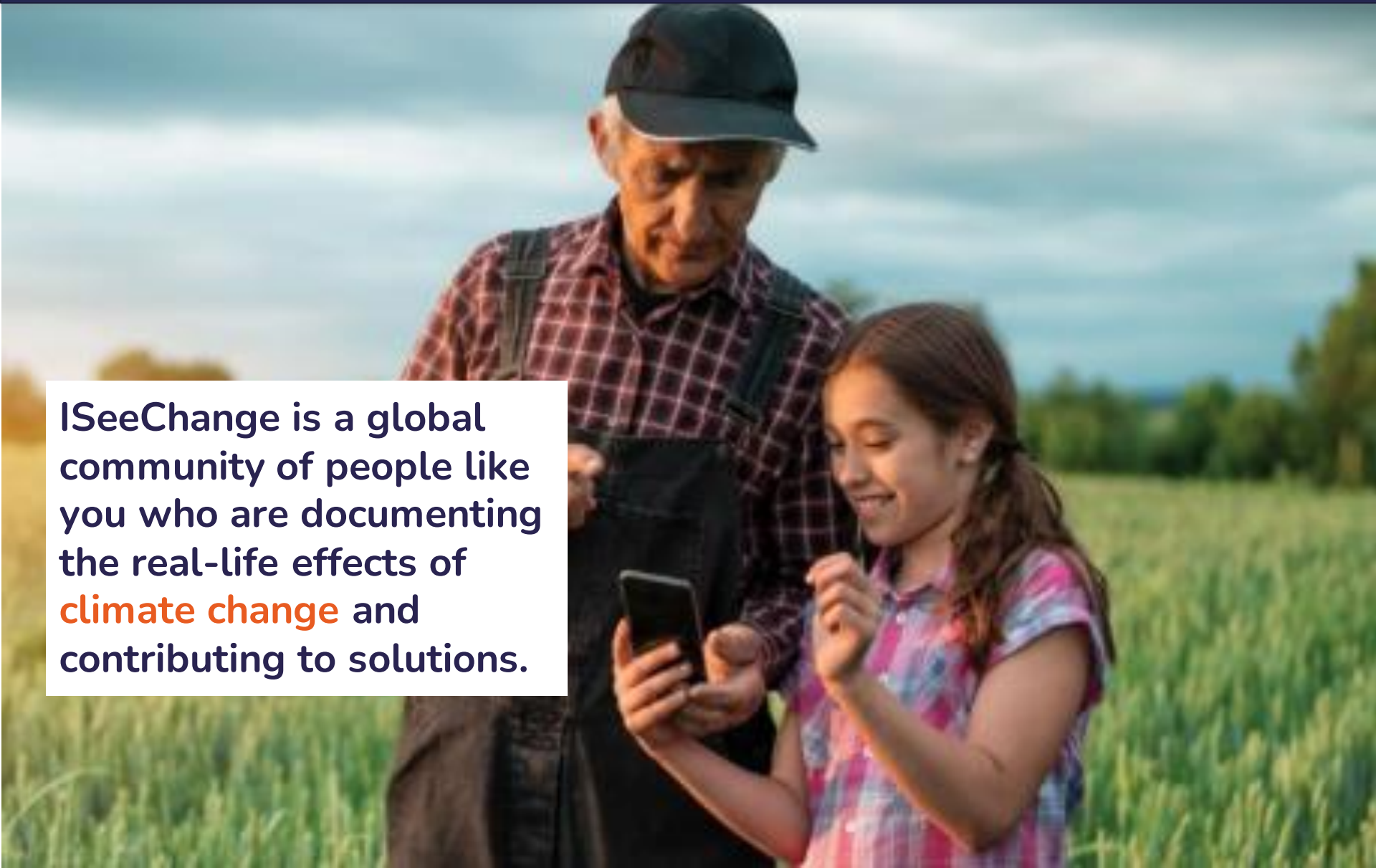
Count **pollinators** to track their population numbers.

Citizen science project: **Stall Catchers**

Play a game to accelerate
Alzheimer's research.



Citizen science project: ISeeChange

A photograph of an older man wearing a black cap and a red and white plaid shirt, and a young girl with long brown hair wearing a pink and white plaid shirt. They are standing in a green field under a blue sky with light clouds. The man is holding a smartphone, and the girl is looking at it with a smile. A white text box is overlaid on the left side of the image.

ISeeChange is a global community of people like you who are documenting the real-life effects of **climate change** and contributing to solutions.

Citizen science project: Debris Tracker

Debris tracker empowers you to fight **plastic pollution** by recording the litter you see in your community.



Image credit: Rich Blinkinsoop

CitSciMonth for researchers: Find participants.

- Add your project to SciStarter: SciStarter.org/add
- Create an event during CitSciMonth:
SciStarter.org/add
- Co-host that event with SciStarter (join Thursday office hours to discuss!):
CitizenScienceMonth.org/MailingList
- Use the People Finder to invite folks to your event:
SciStarter.org/People-Finder

CitSciMonth for community leaders: Turn your community's curiosity into impact.

- Find a project to feature for your community!
CitizenScienceMonth.org
- Leverage the Introduction to Citizen Science Tutorial with your community: SciStarter.org/NLM
- Add an event to SciStarter: SciStarter.org/add
- Co-host that event with SciStarter (join Thursday office hours to discuss! We can help find speakers, etc):
CitizenScienceMonth.org/MailingList
- Use the People Finder to invite folks to your event:
SciStarter.org/People-Finder

CitSciMonth for individuals: Do citizen science.

- Find an event or project to participate in!
CitizenScienceMonth.org
- Keep track of your participation to SciStarter
Affiliate Projects in your Dashboard:
SciStarter.org/Affiliates & SciStarter.org/Dashboard
- Learn something new from an event, blog, or
podcast on SciStarter. Have fun & make a difference!
CitizenScienceMonth.org

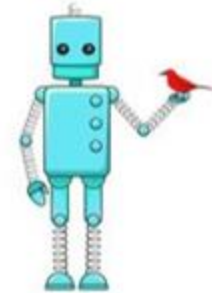
CitSciMonth 2021: April

- We're here to help.
- Sign up for a global social media takeover: bit.ly/CitSciMonthTakeover
- Go ahead and get your event on the calendar: SciStarter.org/add
- Sign up for facilitator updates and join office hours. Ask for SciStarter's help (use of webinar account, promotional support, etc) in office hours: CitizenScienceMonth.org/MailingList
- The CitSciMonth hub, for the public and facilitators: CitizenScienceMonth.org

Partners



All of Us
RESEARCH PROGRAM



scistarter
People-powered science.



**School for
the Future
of Innovation
in Society**

Arizona State

Join a fun event!



Join us on Zoom - April 3rd

Spend your Saturday morning
with National Geographic's

Weird But True!

and PBS's **SciGirls**

bit.ly/CitizenScienceKidsDay

TIME **for KIDS**

Sci**Girls**

iNaturalist

scistarter
Science we can do together.



Join a fun event!

GAMING SCIENCE

APRIL 16, 2021



<http://bit.ly/Gaming4ScienceDay>



Join a fun event!

Citizen Science in the Night Sky, a special presentation from SciStarter, NASA's Night Sky Network & Astronomy Magazine

April 29 @ 6 PM PT:

Join us online. RSVP at
bit.ly/NightSkyCitSciMonth



**CITIZEN
SCIENCE**
MONTH APRIL 2021

Inspirational examples!

- Laurie Fitzgerald (St. Charles City-County Library, MO)
- Judy Brown (San Miguel Library, a branch of the County of San Luis Obispo Public Libraries)
- Barbara A. Shatara (Fletcher Free Library)
- Katie Johnson (Lummi Island Heritage Trust, Partner of Whatcom County Library System)

From the St. Charles City-County Library in St. Charles MO -
website - MYLIBRARY.org

[Discover Science Classes](#) [Wonderful Science Databases](#)

Citizen Science in the City

Virtual Event

Thursday, April 1 at 7 pm

Celebrate Citizen Science Month!

#citizenscience




**CITIZEN
SCIENCE
MONTH** **APRIL 2021**

Learn how you can carry out genuine scientific research with Darlene Cavalier, professor, author, & founder of SciStarter.

On
April 22
at 1PM

Citizen Science and Bees with the County of San Luis Obispo Public Libraries: The Great Sunflower Project

1.



3.



<https://scistarter.org/citizen-science-and-bees-with-the-county-of-san-lu>

2.



Fletcher Free Library



Burlington, Vermont
Barbara Shatara
Programming Librarian



scistarter
Science we can do together.

NIH National Library of Medicine
Network of the National Library of Medicine



Citizen Science Month on Lummi Island, Washington

Lummi Island Heritage Trust – accredited conservation organization

- Marine Debris Prevention and Education
- Hummingbirds at Home
- The Great Sunflower Project



Lummi Island Community Association

50th Annual Spring Roadside Cleanup

Island wide, community effort, fun for everyone!



Island Library – Whatcom County Library System

- Resource headquarters
- Books, activities, data sheets & more!



Thank you!

Contact:

info@SciStarter.org

The logo for Citizen Science Month April 2021. It features a stylized orange molecular structure with three spheres and connecting lines at the top. Below it, the words "CITIZEN" and "SCIENCE" are stacked in large, bold, white, sans-serif capital letters. Underneath "SCIENCE", the word "MONTH" is written in white, and "APRIL 2021" is written in white on an orange rectangular background.

**CITIZEN
SCIENCE
MONTH** APRIL 2021

scistarter
Science we can do together.

Discussion

What citizen science topics may be of interest to your community?

Link!

SciStarter.org/LibraryNetwork

—

Thank you!

Any
Questions?

