

Welcome to the NGCP National Webinar

**Reach Across the Stars: Meet Your Female Space &
Science Heroes (virtually!)**

Wednesday, January 27, 2021

Please respond to the poll and introduce yourself in the chat.

Use the chat to ask questions, respond to one another, and share resources.



NGCP Vision

The National Girls Collaborative Project **brings together organizations** committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).

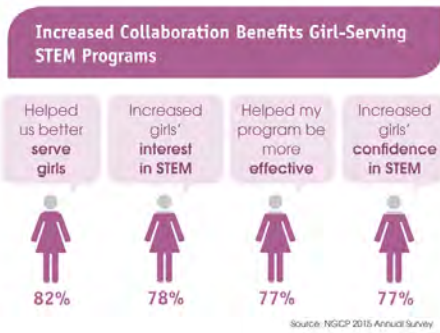


NGCP Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.
2. **Strengthen the capacity** of programs by sharing exemplary practice research and models.
3. **Use the leverage of a network** to achieve gender equity in STEM.



NGCP Activities



National Network of Collaborative Teams



NATIONAL GIRLS COLLABORATIVE PROJECT

Speakers:



Dr. Kimberly Kowal Arcand

Visualization Scientist & Emerging Tech Lead for NASA's Chandra X-ray Observatory



Christina Hernandez

Aerospace Engineer at NASA's Jet Propulsion Laboratory



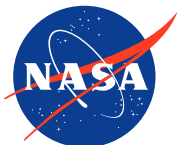
Sasha Samochina

Creative Technologist and Software Systems Engineer at NASA's Jet Propulsion Laboratory



Nicole Stott

Veteran NASA astronaut, aquanaut, founder of the Space for Art Foundation, and author

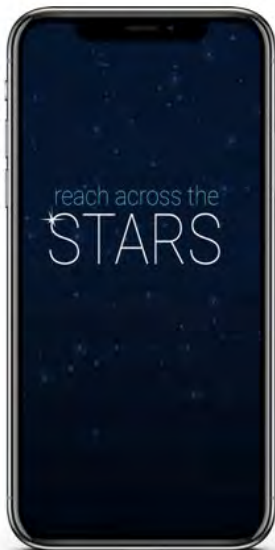




reach across the STARS

<https://chandra.si.edu/women/ar/>

reach across the STARS



reach across the [★]STARS



Explore new worlds

reach across the STARS



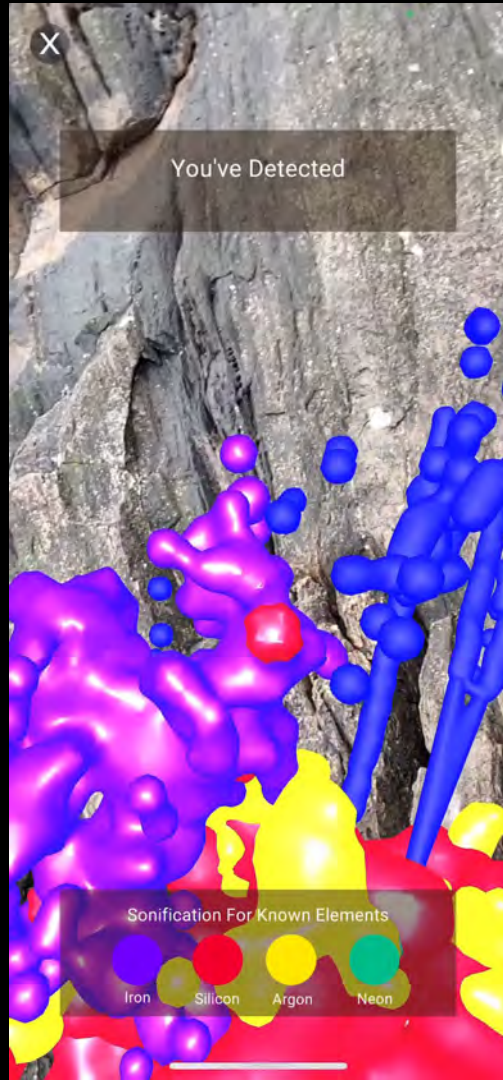
SEE YOURSELF AS A SCIENTIST

Chemist, Astrophysicist, Engineer, Geologist. What are some of the careers in STEM today? Many STEM careers are interdisciplinary and collaborative. So whether you like to understand how things work, figure out a puzzle, or tinker on a phone app, there are a wealth of careers to try on. These selfie frames offer a few fun career choices:





You've Detected



Sonification For Known Elements



Iron



Silicon



Argon



Neon



ON THE COMS

**ASTRONAUT
CADY COLEMAN**



And Houston, what you're seeing is the actual moment of deploy there when we take



LISTEN TO A PULSAR CLOCK

LOOK CLOSER AT THE PULSAR

CRAB NEBULA



X



EXPLORE THE ISS



GALE CRATER RIM





Aim the target towards an open space on the floor and tap to place the AR scene.



**EXPLORE THE
NEUTRAL BUOYANCY LAB**



reach across the **STARS**

Panel Discussion

reach across the STARS



Ada Lovelace



Annie Easley



Grace Hopper

DO YOU LOVE COMPUTERS?

Try coding & modeling

chandra.si.edu/tinkercad
chandra.si.edu/code
chandra.si.edu/binary

DO YOU LIKE MATH?



Hypatia



Melba Roy



Ada Lovelace



Katherine Johnson

Try NASA Space Math
spacemath.gsfc.nasa.gov/



Annie Easley

Mary Jackson

LIKE DISCOVERING HOW THINGS WORK?

Check out the Universe of Making & Doing:

<http://chandra.si.edu/make/>

WANT TO GO INTO SPACE?



Liu Yang



Eileen Collins

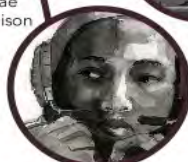
Make your own models, planes & papercraft.

chandra.si.edu/make/paper

LIKE BIOLOGY & CHEMISTRY?



Cady Coleman



Mae Jemison

Check out Macro Micro

chandra.si.edu/micro



Vera Rubin

WANT TO UNDERSTAND THE UNIVERSE?

Learn about the Dark Universe

chandra.si.edu/darkuniverse



Henrietta Leavitt

Learn about cosmic scale and distance

chandra.si.edu/scale

LOVE STUDYING THE STARS?

reach across the

STARS

X

SUNI WILLIAMS



Sunita (Suni) Williams is an astronaut who piloted 40 different types of naval aircraft, has flown in three different spacecraft, and commanded the International Space Station. Williams is also bridging the gap between NASA crewed flights and the private commercial efforts from companies like SpaceX and Boeing. She has tapped to command a Boeing's Starliner spacecraft when it carries astronauts to the International Space Station.

Born in Ohio in 1965, Williams's childhood dream was to become a veterinarian. She passed up the chance to attend Columbia to do that, and instead opted to study physics sciences at the United States Naval Academy. After receiving her commission in May 1987, Williams wanted to become a diver, but shifted her career goals once again to focus on flight school. During a visit to the Johnson Space Flight Center, Williams attended a talk by John Glenn, it sparked her interest in becoming an astronaut.



Hi, my name is Suni Williams.

X

JESSICA WATKINS



Jessica Watkins has been selected by NASA to join the 2017 Astronaut Candidate Class. She reported for duty in August 2017. The Colorado native earned a Bachelor's degree in Geological and Environmental Sciences at Stanford University, and a Doctorate in Geology from the University of California, Los Angeles (UCLA). Watkins has worked at NASA's Ames Research Center and NASA's Jet Propulsion Laboratory, and was a collaborator on the Mars Science Laboratory rover, Curiosity.

Excited to potentially go into space, Watkins also realizes that this wouldn't be possible if not for women like Dorothy Vaughan, Katherine Johnson and Mary Jackson. Currently, Jessica is training and preparing for her possible voyage to space. Many of her training tasks are out of the ordinary and simulate space environments, like the NASA Extreme Environment Mission Operations mission in the only Aquatic habitat in the world.



Hi, my name is Jessica Watkins and I'm a NASA astronaut.



UNIVERSE



ALL STORIES



ABOUT



UNIVERSE



ALL STORIES



ABOUT



reach across the **STARS**

<https://chandra.si.edu/women/ar/>

Dr. Kimberly Arcand, kkowal@cfa.harvard.edu

Upcoming NGCP Webinars



ALLIANCE FOR A
**HEALTHIER
GENERATION**



**STEM, Health, and
Mental Health**
February 9, 2021