

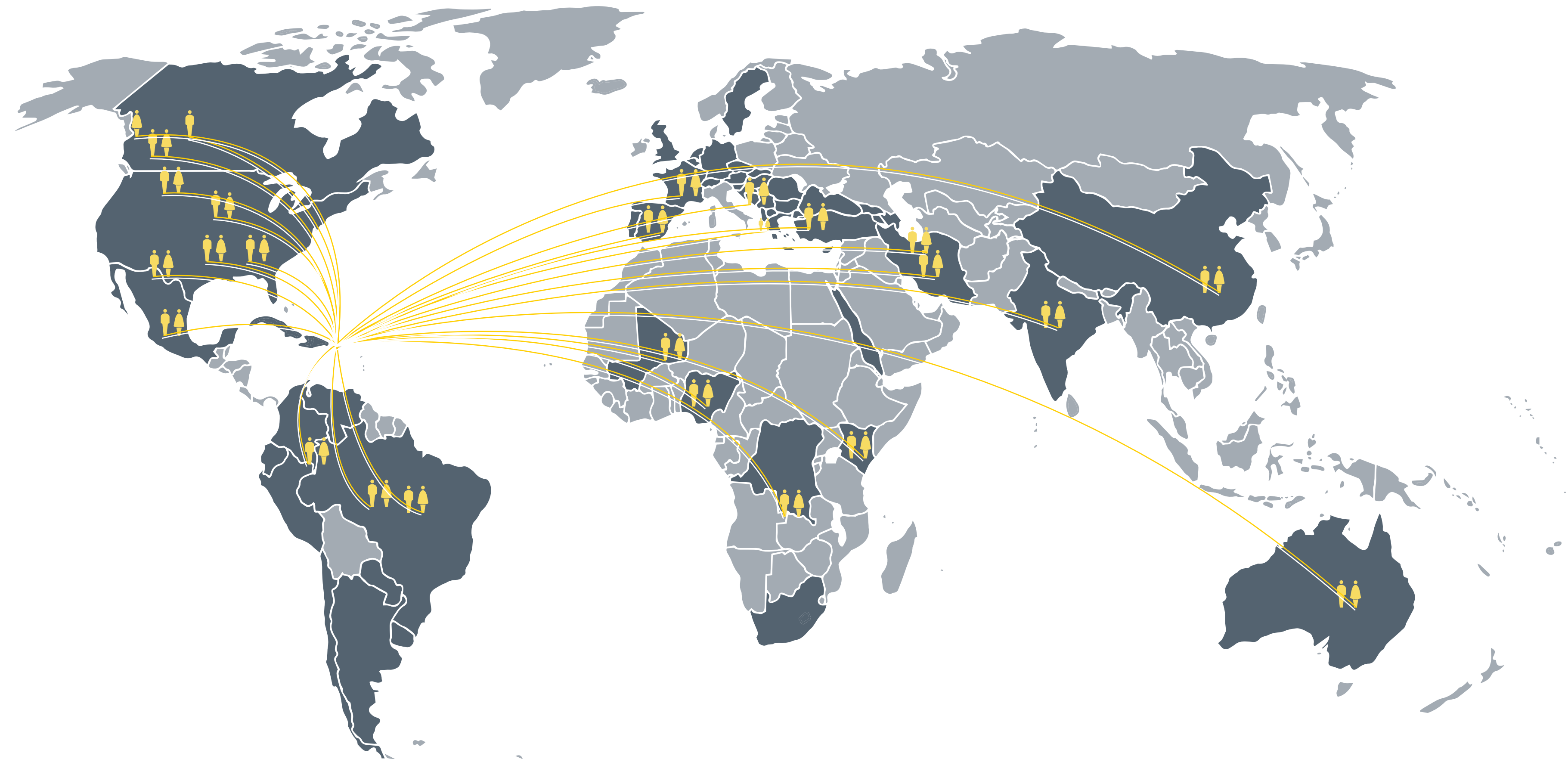


Ciencia
Puerto Rico
cienciapr.org

**DEMOCRATIZING
SCIENCE EDUCATION
AND CAREERS
FOR PUERTO RICO**

Who We Are

A global community of >15K scientists, students, educators and allies who believe that science can empower individuals with the knowledge, capacity, and agency to improve their lives and society.



Our Vision

A society where individuals are empowered by science to think critically, solve problems, and be agents of change in their communities.

Our Mission

To democratize science and transform science education by engaging and empowering a diverse global community of scientists, students, educators, and allies



Our Difference



COMMITTED EXPERTS

We leverage our rich and diverse community to fuel solutions that democratize science, and transform science education and career training



CULTURAL RELEVANCE

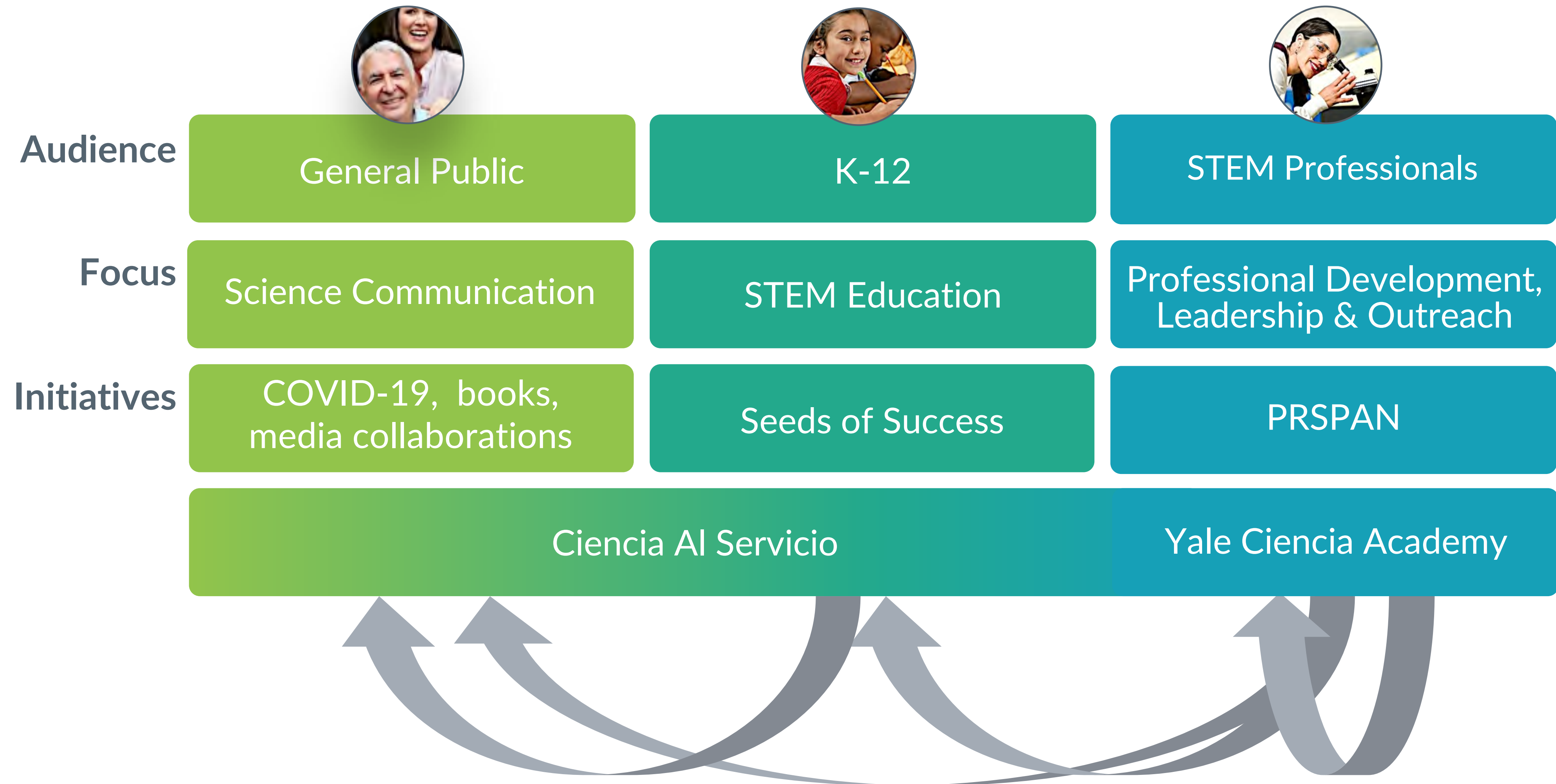
By making science more engaging and culturally relevant, our goal is to enable people to become critical thinkers and problem solvers



IMPACT

Focus on evidence-based interventions to ensure we are transforming how people relate to and learn from science

Our Programs





STEM Leaders

Our programs provide STEM experts with professional development, and science outreach and communication training, and with platforms to put those skills into practice.

Yale Ciencia Academy

Read more:

www.cienciapr.org/yca

NIH-funded program that provides career development for doctoral students in biomedical and behavioral sciences. Fellows participate in virtual conversations with successful scientists; define academic and professional goals; and receive training in communication and leadership skills.



210
students

32
U.S. states &
Puerto Rico

71
academic
institutions

Yale Ciencia Academy

190
outreach projects

30,000+
people impacted

As part of the program, YCA Fellows complete guided outreach and public engagement projects, through which they practice science communication and leadership skills and impact their communities.

Projects have included articles, podcasts, op-eds, lesson plans and school visits, public lectures, career workshops and panels, and the Puerto Rico Science Policy Action Network, a science policy and advocacy initiative



PUNTO DE VISTA

Por Charlene Rivera Bonet



miércoles, 18 de marzo de 2020

Manejando el trauma y la incertidumbre ante COVID-19

Puerto Rico ha sido afectado por tres fenómenos diferentes en los últimos tres años: los huracanes Irma y María, los terremotos de principios de año, y ahora la pandemia del COVID-19. El COVID-19, comúnmente conocido como coronavirus, ha sido confirmado en cinco personas en Puerto Rico hasta la fecha, con 37 casos sospechosos. Mientras cuidamos de nuestra salud física, también es vital mantener buena salud mental. Tanto las experiencias pasadas como el aislamiento ante la necesidad de guardar distancia social tienen el potencial de afectar nuestra salud mental.

Aunque muchas veces vemos la salud mental como algo separado a la salud física, nuestro cerebro sufre cambios físicos con experiencias traumáticas. Ante el trauma, las conexiones entre las neuronas en las regiones de nuestro cerebro que regulan nuestra respuesta al estrés y al miedo—la amígdala y la corteza prefrontal—cambian. Estos cambios hacen más difícil controlar el miedo. Por esta razón, puede ser difícil mantener la calma al enfrentarse a circunstancias como el COVID-19. Teniendo eso en cuenta, hay acciones que podemos tomar al respecto.

A continuación, comparto unas recomendaciones dadas por los servicios de salud de la Universidad de Harvard y otros recursos:

- **Manténgase informado**, pero sea cauteloso con el uso de redes— Use fuentes confiables para mantenerse informado. Es importante no creer toda la información que está en las redes, sino acudir a fuentes válidas como los Centros para el Control y la Prevención de Enfermedades (CDC) o la Organización Mundial de la Salud (WHO). Use

In 2020, several students used their outreach projects to respond and contribute to COVID-19 science communication or education

Puerto Rico Science Policy Action Network

Read more: <http://bit.ly/PR-SPAN>

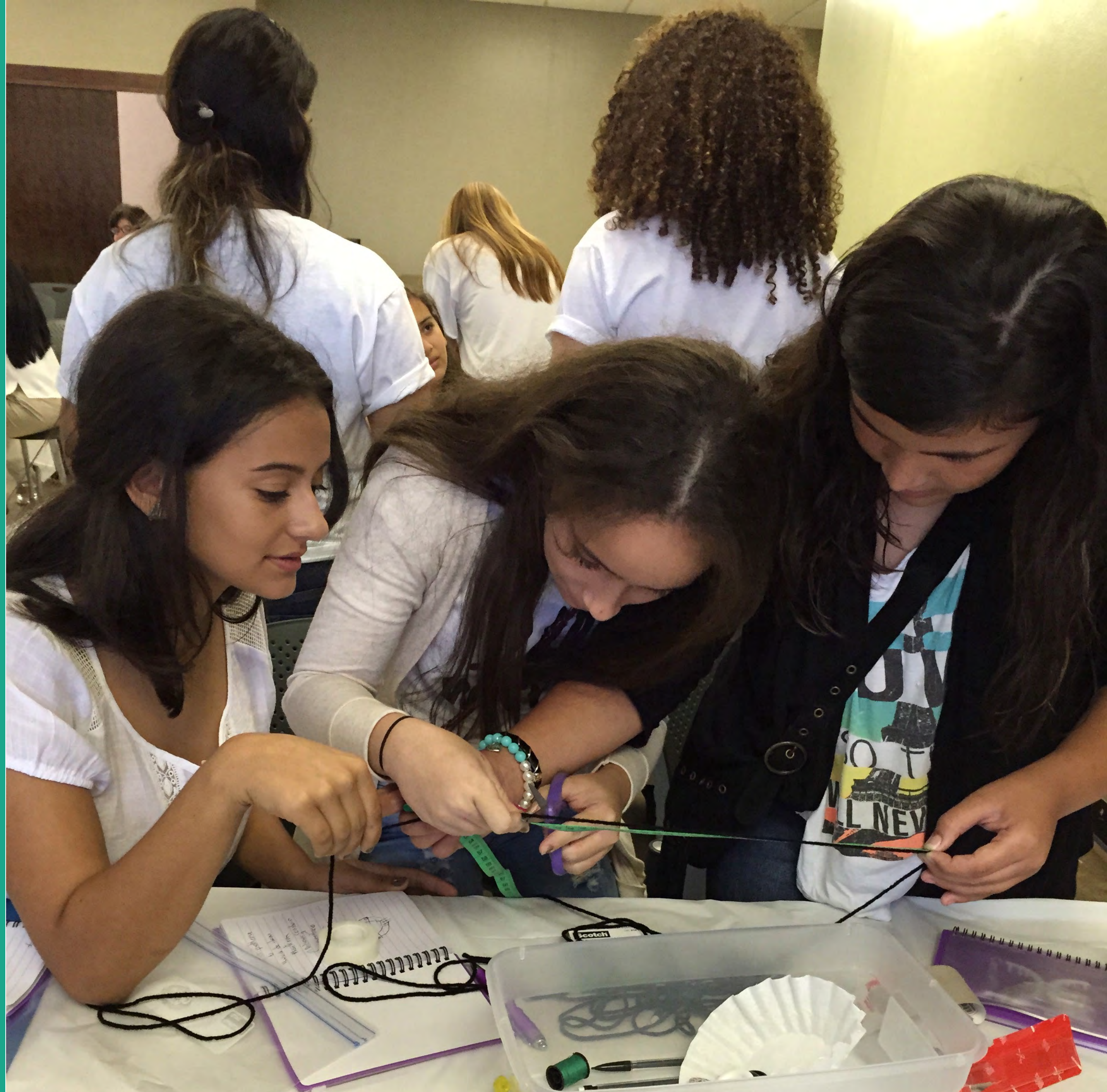
Established to empower and activate Puerto Rican scientists— in Puerto Rico and the US—to contribute their knowledge and diverse perspectives to science policy and advocacy discussions and ensure policies for Puerto Rico are evidence-based.

The initiative has trained >100 scientists in science advocacy, published >30 blog posts and policy alerts, launched a campaign to preserve the Puerto Rico Institute of Statistics, and has resulted in several articles and op-eds in newspapers and a presentation at a US House Committee hearing.



K-12 Science Education

We create culturally relevant STEM education resources and experiences to increase interest in STEM among Puerto Rican youth.



Seeds of Success: STEM Girl Ambassadors

A program to give middle school girls the chance to experience the excitement of STEM through workshops (online during COVID-19) and interactions with Latina STEM mentors.



Girls are also given leadership training and the chance to work with local nonprofits to complete STEM Ambassador projects that impact other students and raise awareness and exposure to STEM.

A photograph of two young girls looking upwards with expressions of wonder and awe. The girl on the left is slightly out of focus, while the girl on the right is in sharper focus, wearing glasses and a green headband. The background is a bright, patterned surface, possibly a window or a wall. The overall tone is inspirational and hopeful.

Each year...

120

middle school girls from
across Puerto Rico

middle school girls from
across Puerto Rico

Latina STEM mentors

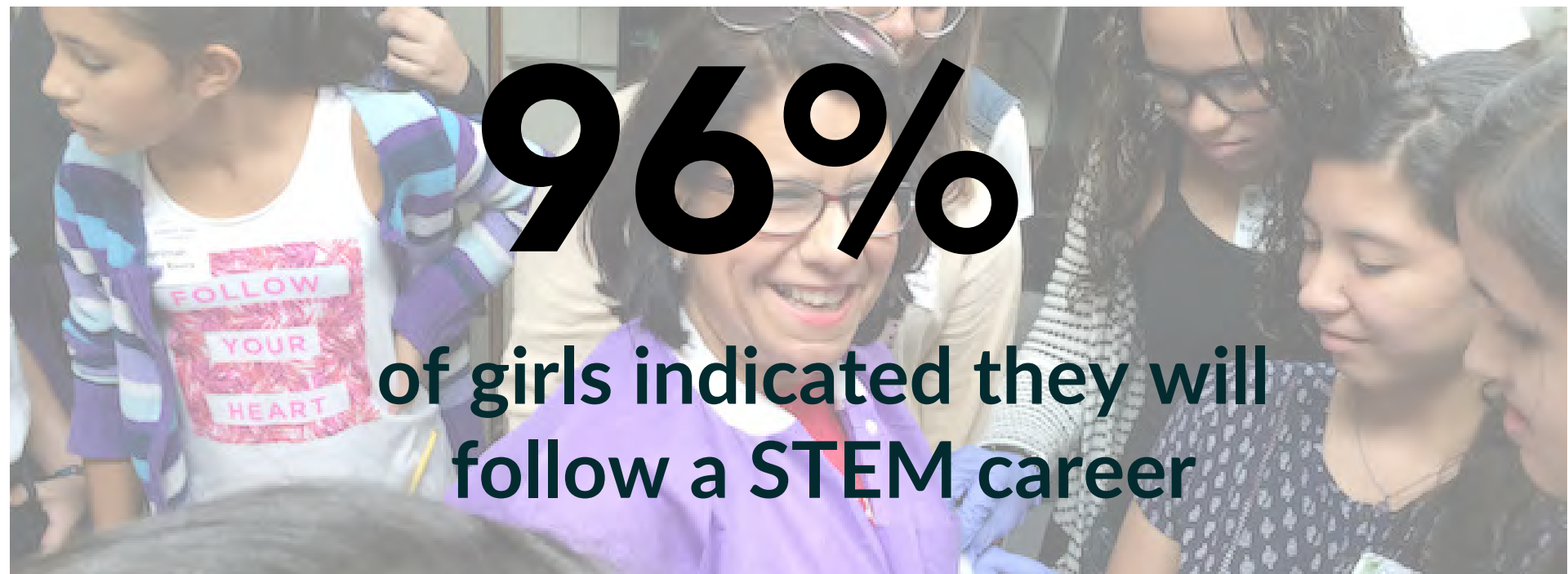
people reached through girls' STEM outreach projects



92%
of girls are more self-confident in their
STEM skills after their participation



of girls are more self-confident in their
STEM skills after their participation




96%
of girls indicated they will
follow a STEM career

of girls indicated they will follow a STEM career

New Digital Resources for Girls in STEM!

AILED CRUZ COLLAZO


Soy Borinqueña... y bioquímica



Ailed Marie Cruz Collazo

Semillas de Triunfo

Ailed M. Cruz Collazo es candidata a Doctorado en Bioquímica de la UPR, Ciencias Médicas, donde investiga sobre terapias experimentales que ayuden a evitar la metástasis en el cáncer. Vive en Vega Baja, y le encanta la comunicación científica, el arte como medio de comunicación, y bailar salsa y bomba.



Largest digital collection of Latinas in STEM

ECOexploratorio MUSEO DE CIENCIAS DE PUERTO RICO

Ciencia Puerto Rico ciencia.org

AAAS AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

IF/THEN Ambassador

Pfizer



Juntas Podemos

serie de charlas de Semillas de Triunfo: Edición IF/THEN

10 grandes mujeres en las disciplinas de ciencia, tecnología, ingeniería y matemáticas

 Nanette Cocero Farmacóloga 4 noviembre 2020	 Deborah Berebichez Física 17 noviembre 2020	 Karen Moreno Paleontóloga 2 diciembre 2020	 Marissa Morales Ingeniera 9 diciembre 2020	 Mónica Feliú-Mójer Neurobióloga 13 enero 2021
 Davina Durgana Bioestadística 27 enero 2021	 Wanda Díaz Astrofísica 10 febrero 2021	 Clara Mosquera Científica de cómputos 24 febrero 2021	 Alba Colón Ingeniera mecánica 3 marzo 2021	 Ana M. Porras Ingeniera biomédica 17 marzo 2021

noviembre 2020 a marzo 2021 5:00 PM AST

 LIVE @ecoexploratorio

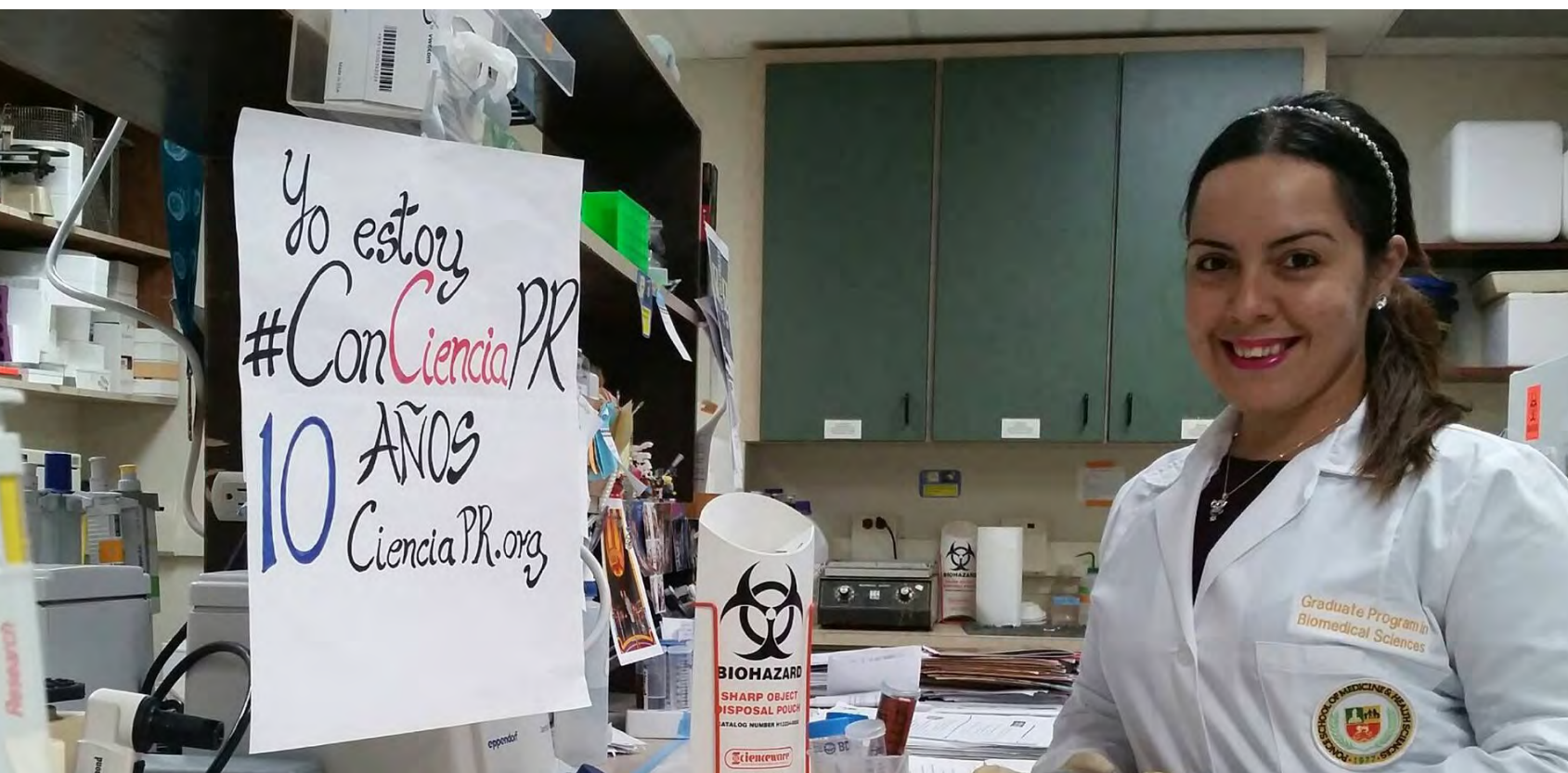
Webinar series with inspiring role models

Ciencia al Servicio de Puerto Rico

To address the need for better science education, in early 2018 we created Ciencia al Servicio de Puerto Rico.

Read more: bit.ly/CienciaAlServicioPR

We bring together scientists and educators to co-create science lessons relevant to the Puerto Rican context and that empower students to solve problems they observe in their communities.



Educators



Scientists



Students

STEM Education Continuity



STEM lessons developed through our programs have been distributed to schools affected by earthquakes and digitalized for the pandemic.

Científicos al Servicio ((.)) en línea

visitas virtuales para educadores y sus estudiantes

Los martes a las 11 AM

Educador: Reserva un espacio para tus estudiantes

- Para grupos de escuela intermedia y/o superior
- Se requiere que el educador separe el espacio para su grupo
- Se puede registrar más de un grupo/escuela por charla, según disponibilidad

Para detalles y registro: cutt.ly/cientificosenlinea

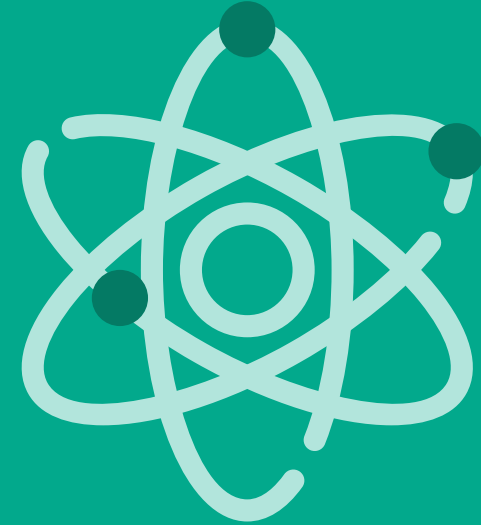
#CientificosAlServicio

En vivo para público general:

We continued providing scientist lessons online throughout the pandemic and these have also been converted into a TV show.

Ciencia al Servicio by the Numbers - 2020

27



Online STEM professional
classroom visits

58

teachers
trained



96

STEM kits
distributed



>400

STEM lessons
downloaded



>3,600

students benefitted
through lessons



Science for All

Through our website, communication initiatives, and media collaborations, we give voice to scientific role models and present science “in rice and beans” to make science content accessible and valuable to all.



Celebrating #CienciaBoricua

In 2011, we published ¡Ciencia Boricua! the first anthology of essays by Puerto Rican scientists for a Puerto Rican public

Since 2006, we have published >700 scientist-written articles, through national and international media outlets

Since March 2020, we have published >97 COVID-19 related articles and columns in local newspapers written by > science and public health experts. We also facilitated >100 media interviews between scientists and local and international media.



COVID-19

We have leveraged our culturally-relevant communications expertise and STEM expert network to develop science-informed, audience-targeted COVID-19 prevention campaigns. We are planning on expanding this model to other topics.



Cuídate Cuídame leverages influencers & applies differentiated messages

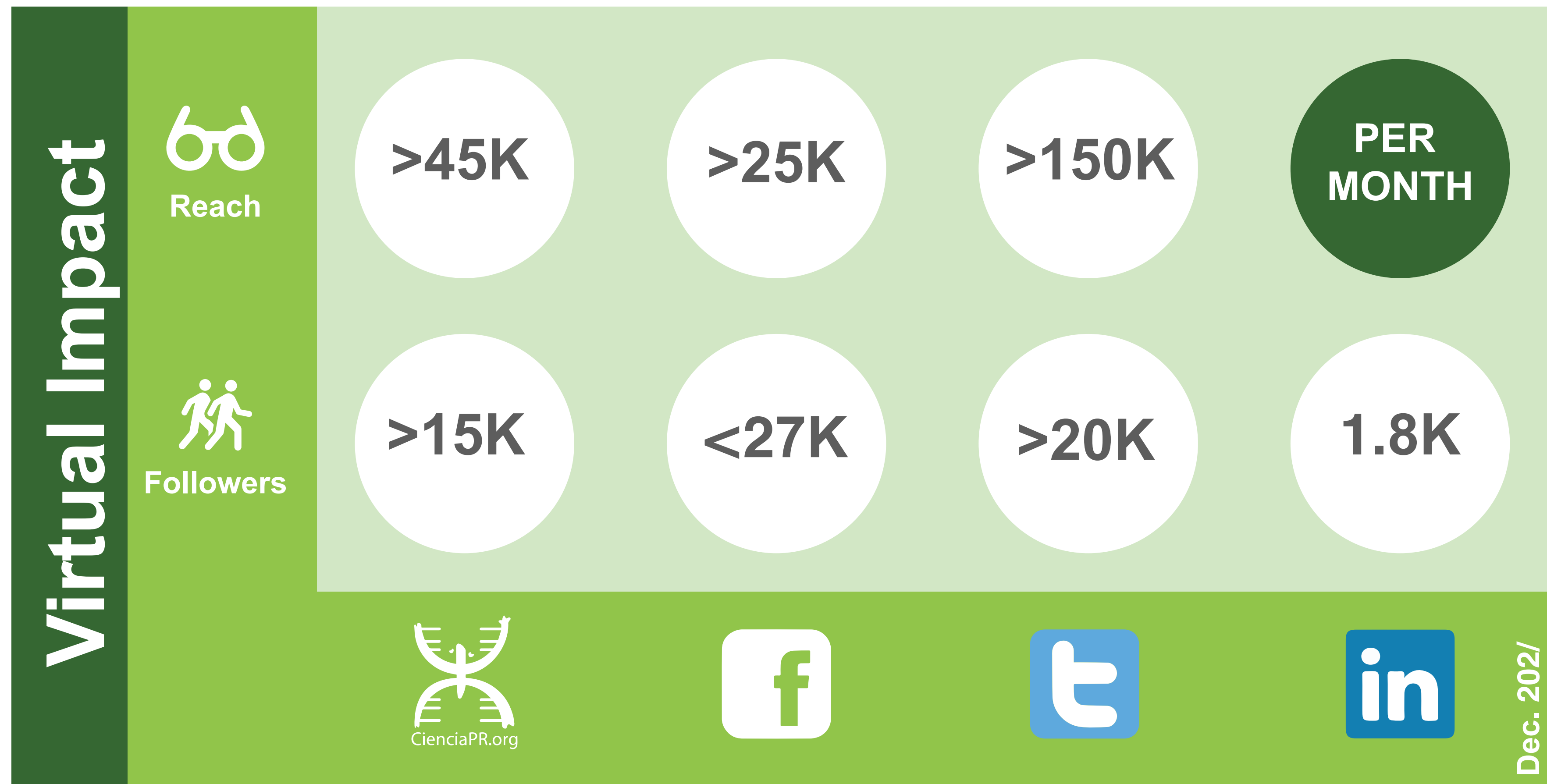


With support from the Simons Foundation, Aquí Nos Cuidamos uses participatory strategies to reach vulnerable communities

A Platform for Impact

CienciaPR.org is the **most popular science website in Puerto Rico**

Puerto Rican audiences **visit our website 40%** and **157% more** than the most popular “Science” & “Jobs and Education” websites in the world (Google Analytics)



Bringing it All Together

Scientists

- Are supported through training, community, and visibility
- Are engaged to contribute through science education, communication, and training programs

Educators

- Get project-based learning training & tools
- Collaborate with scientists to design new lessons and bring them to their schools or community centers

Students

- Are exposed to real and engaging science & scientists
- Can see themselves as future leaders & change agents

Communities

- Are engaged through relevant & accessible science communication & civic science
- Promote and are empowered by knowledge and evidence-based policies and practices



Recognition for CienciaPR

In 2015, CIENCIAPR was recognized by the White House as a Bright Spot in Hispanic education.



In 2018, CienciaPR was recognized as one of five “Science Defenders 2018” by the Union of Concerned Scientists.



Recognition for CienciaPR



In 2021, our civic science project "Aquí Nos Cuidamos" was selected as Science Breakthrough of the year at the Falling Walls Engage Conference in Berlin.

The initiative was selected for this recognition among 189 projects from 80 countries for "not only breaking the wall between science and society but also building community, solidarity, and new forms of expertise and knowledge," according to the Chair of the international jury.

Our Team

**Giovanna
Guerrero-Medina**



Executive Director

**Mónica
Feliú-Mójer**



Director,
Communications &
Science Outreach

**Greetchen
Díaz-Muñoz**



Director, Science
Education & Community
Partnerships

**Elvin
Estrada-García**



Science Education
Program Specialist

**Liz
Hernández-Matías**



Senior Science
Education Program
Specialist

**Edmy
Ayala-Rosado**



Science Communication
& Outreach Specialist

**Andrea
López-Merced**



Rita Allen Civic Science
Fellow

**Ariadna
Rubio-Lebrón**



AmeriCorps Fellow

**Alondra
Caraballo-Franco**



AmeriCorps Fellow

Our Board of Directors

Read more:

bit.ly/CienciaPR-New-BoD

In 2017, we announced a new Board of Directors composed of leading scientists, educators, innovators and members of the community.

This stellar group complements our existing expertise, and is helping us secure new sources of funding, and increase the visibility, recognition and impact of CienciaPR.



Josefina
Arce-Quñones, Ph.D.



Frances
Colón-Hastings, Ph.D.



Daniel
Colón-Ramos, Ph.D.



Jo E.
Handelsman, Ph.D.



María
Jaunarena, M.A.



Ramón
Lloveras-San Miguel,
J.D. L.L.M



Marla
López Martínez,
CFP, CIC



Manu
Prakash, Ph.D.



Ana Helvia
Quintero, Ph.D.



Ronald D.
Vale, Ph.D.

Support Our Mission

CONTACT

Dra. Giovanna Guerrero-Medina
Executive Director, Ciencia Puerto Rico
giovanna.guerrero@cienciapr.org
(616) 643-7666



www.cienciapr.org



[cienciaboricua](https://www.youtube.com/cienciaboricua)



[Ciencia Puerto Rico](https://www.facebook.com/CienciaPuertoRico)



[@CienciaPR](https://twitter.com/CienciaPR)



bit.ly/donate_CienciaPR



contact@cienciapr.org