CMB-S4 Collaboration Education and Public Outreach

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Education and Public Outreach

Overview

• Why get involved in outreach

• Impact of science outreach

• Outreach Reported 2019-2020

• Ways to get involved in 2021
Why get involved in outreach?

**Scientists Who Volunteer Say:**

- “I really enjoy sharing the science that I love with the public and inspiring young people to pursue careers in science.” *Sara Simon, Fermilab*

- “I also feel like we have a responsibility to engage with our communities, especially those where these opportunities can be scarce.” *Sara Simon, Fermilab*

- “I believe outreach is the key to demystify science and math and get young students to brave a science path in the future.” *Felipe Maldonado, Florida State University*

- "When I give a public lecture, the intense curiosity of the audience reminds me how lucky I am to get to do this work. It revitalizes my own curiosity. And sometimes it leaves me feeling like a rock star.” *Lloyd Knox, University California Davis*

- “The best feeling came from watching the lightbulb go off in the students’ heads as they understood something. Having a successful learning exercise, where the students go the steps and actually understand the core concepts in the end is amazingly rewarding.” — *A Former Space Explorer Instructor, KICP/University of Chicago*
Positive Impact

Thank you for teaching me about space and black holes. You made me want to go to space when I get older.

I learned lots of things. It was also fun. Even my parents don’t know this much.” — third grade student

I probably wouldn’t have known how much I enjoy science and felt comfortable in a STEM field without the program. It was the first time I was encouraged to pursue scientific inquiry and was the beginning of my journey as an engineer.” — Former Space Explorer Participant.

My favorite feedback was from an undergraduate student who said that I was the reason that they had decided to go to grad school for physics.

Go to space!!!
Whoo-hoo
Outreach Data Reported: 2019 - 2020

Types of Outreach

- Reddit (10K+ impressions)
- Live Streamed Events 4000-10000 attendees
- Saturday Physics 200 High School Students
- Girls STEM Events 100-200
- Summer Programs (K-12, STEM )
- CMB-S4 summer research program for undergraduate students. (year 2017)

Audiences

- K-12 Students
- Live talks and local community programs
- Virtual presentations for public audiences
Outreach Opportunities 2021

Ways to Get Involved (Virtual)

- Project Exploration Career Talk (March-April) – Juliet Crowell, crowellj@uchicago.edu
- Project Exploration Summer Camp (June 28 – August 20) - Juliet Crowell, crowellj@uchicago.edu
- Saturday Science Series (April) - Felipe Maldonado, fam14c@my.fsu.edu
- 3D Telescope Design & Engineering ( May/ June) - Juliet Crowell, crowellj@uchicago.edu
- Space Explorers & Summer Camps - Juliet Crowell, crowellj@uchicago.edu
- Science Friday (https://www.sciencefriday.com/) – Juliet Crowell, crowellj@uchicago.edu
- Virtual lab tours (live and recorded) for K-12 audiences – Juliet Crowell, crowellj@uchiago.edu
- Public Talks with science organizations, community organizations, STEM and STEAM programs.
Volunteering: Time Commitment

Many Ways to Support Outreach

- Share and promote upcoming programs and events
- Make introduction to community partners and organizations
- Encourage projects lead by your graduate students
- Support behind-the-scenes tasks

- Sharing science resources (30min)
- Talks/presentations (1-2 hours)
- Saturday Science (2 hours)
- Developing new programs (1 hour/week)
- Summer STEM Programs (3-4 hours/week)
Share 2021 Outreach events and programs: epoc@cmb-s4.org

Share your outreach data: https://forms.gle/tok17VDLaC6zXJ6B7
Thank you!

Friday March 12: Outreach Sessions

• 12:00 – 12:30 pm (CT) Round Table (30 min)

• 12:30 pm – 2:00 pm (CT) Flagship Outreach Brainstorm (90 min)

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