



Mission

The mission of Girls 4 Science is to enrich the lives of girls through early exposure to the study of science, technology, engineering and math (STEM) and women of color practicing in STEM fields, hands-on problem-based learning and mentorship for careers in STEM fields.

Vision

Girls 4 Science endeavors to create a sustainable pipeline for women of color in STEM careers.

Saturday STEM Academy

Girls 4 Science fulfills its mission through its Saturday STEM Academy, which provides hands-on experiential learning and professional mentorship in STEM for girls age 10-18 years from Chicago and its surrounding communities. The Saturday STEM Academy's innovative program model is based on evidence that science exposure and increased science literacy will equip young girls with the knowledge and confidence needed to pursue study in the sciences and careers in STEM.





Jackie Lomax
Founder & Executive Director
Girls 4 Science

Message from the Executive Director

The year 2020 was one of grace and mercy. The year made everyone stop, look and listen. The immediate need to breathe was no longer taken for granted. The COVID-19 pandemic challenged how Girls 4 Science (G4S) conducted its Saturday STEM Academy. We were confined to our homes during the spring, summer and fall programs. For the first time in history, G4S offered the Saturday STEM Academy online and developed and packaged its signature hands-on learning activities to be completed at home.

Due to the pandemic, G4S had to cancel its annual Women in History fundraising event but replaced it with a very successful online popcorn fundraiser. Although we had to cancel the Spring Saturday STEM Academy, we successfully conducted online programs in the Summer and Fall. The virtual Student Recognition and Awards Ceremony featured a keynote speaker, awarding of scholarships and issuing of certificates to the 2020 Girls 4 Science program participants. With the strength of the G4S team members and volunteers we "left no girl behind."

The conscientious work of G4S pro bono consultants Janice Feinberg and Barb Pasulka led G4S into a sustainable operational outlook for 2020 and beyond and helped create a strategy that kept G4S fully operating during the times of uncertainty. We learned that the success of a nonprofit organization lies within its people. The skills and talents of team members, volunteers and the Board of Directors is the reason G4S was able to quickly pivot to avoid disaster and thrive under the adverse circumstances brought on by the pandemic. Girls 4 Science is very fortunate to continue to live its mission through the support of our donors.

Sincerely,

Jackie Lomax





Special guest Raven Johnson, President of Crystal Clear Tutoring, speaks with G4S students about the use of math in the everyday world.



Participants	189
New Registrants	50
Elementary/Middle School (grades 4-8)	96 (72%)
High School (grades 9-12)	37 (28%)
Zip Codes represented	59 + 4 INDIANA
African American/Black	71%
White	14%
Hispanic/Latino	8%
Asian	5%
Biracial	4%



G4S participants represent more than 60 zip codes in Chicago and its surrounding communities.







Inger Burnett-Zeigler, PhD

Keynote Speaker

Associate Professor,

Department of Psychiatry

and Behavioral Sciences

Northwestern University

Feinberg School of Medicine

Student Recognition & Awards Ceremony

Girls 4 Science held its annual Student Recognition & Awards Ceremony on August 14 on the Zoom Platform. More than 87 students, family members and alumni gathered virtually to celebrate the accomplishments of the participants, staff, volunteers and mentors. Three G4S high school seniors received Linda McGill Boasmond Scholarships.

The keynote speaker was Dr. Inger Burnett-Zeigler, a licensed clinical psychologist and Associate Professor in the Department of Psychiatry and Behavioral Sciences at Northwestern University Feinberg School of Medicine. As a proud south-side Chicagoan, she delivered a passionate and compelling message to the students, families, staff, volunteers and guests in attendance.

Dr. Burnett-Zeigler is a fierce advocate for eliminating mental illness stigma and normalizing participation in mental health care, is actively involved in the community and serves on several non-profit boards. She is a prolific contributor to the public discourse on mental health and wellness, with op-eds featured in The New York Times, TIME magazine, The Hill and Chicago Tribune. She has also been seen on CNN, WGN-TV and WTTW Chicago Tonight. Her remarks to the Girls 4 Science students, families, volunteers and staff were not only inspirational, informative and topical, but clearly personal. She identified the STEM behind psychology and introduced many young girls to psychology as a career opportunity.

The Student Recognition & Awards Ceremony was sponsored by Cedar Concepts Corporation and The Joseph & Bessie Feinberg Foundation.



Student Recognition & Awards Ceremony

Linda McGill Boasmond Scholarship Recipient

Becky Harris



Becky Harris Joliet Junior College Major: Biology

I first learned about Girls for Science in sixth grade. My sixth-grade teacher at Joliet's Dirksen Junior High School informed me about the program. I was told it was a great way for girls to learn more about science and a way to make friends who had the same interests as me. The first time I went to the Saturday program I found it fun and exciting. There were a lot of great people; many now are close friends who have helped shape me to be the person I am today. They introduced me into the world of science and gave me opportunities I never got in school. I met women in different fields of STEM, which opened my mind to different ideas about what I could dream about and accomplish.

I learned things that helped me in school and will help me later in life. I will be going to Joliet Junior College majoring in biology. I will get a job one day as a forensic analyst specializing in human DNA. Girls for Science has helped me in so many ways and has shaped my future. For instance, I learned there are a lot more opportunities in the STEM field, such as my future career in Biology. Girls for Science also helped my self-esteem by building my confidence in the labs and by giving me a chance to discuss our lab success and failures equally. The labs were interesting and made my critical thinking skills better. As a forensic analyst I will have to think and make critical decisions needed to properly interpret lab and test results.



Student Recognition & Awards Ceremony

Linda McGill Boasmond Scholarship Recipient

Ramaya Johnson



Ramaya Johnson Augustana College Major: Pre-Medicine

Participating in Girls 4 Science at a young age built a strong foundation and yearning to learn more about science, technology, engineering and math (STEM) and STEM-based careers. Girls 4 Science surrounded me with knowledgeable individuals that allowed me to explore the world of STEM. I enjoyed the hands-on activities held at Olive Harvey College in the science labs, as well as the once-in-a-lifetime field trips to Fermilab, a Ford factory and Ingredion. I met amazing and smart young ladies my age and was mentored by older participants who also shared a passion for STEM. Because of Girls 4 Science, I was able to participate in other STEM-based opportunities like The Ice Box Derby

and various internships at top hospitals in the Greater Chicagoland area. Girls 4 Science was instrumental in my decision to continue my journey in STEM. This fall, I will be attending Augustana College on a Pre-Med track to one day become a dermatologist.



Student Recognition & Awards Ceremony

Linda McGill Boasmond Scholarship Recipient

Summer Smith



Summer Smith
New York University
Major: Biochemistry

I started as a participant in Girls 4 Science in the sixth grade and was exposed to the breadth of STEM fields, which not only fueled my love for science, but also pushed me to aspire to enter a career in medicine as an obstetrician-gynecologist. As I entered my freshman year of high school and expanded my knowledge of the sciences, I was allowed to provide input on some of the lessons the other G4S participants would learn. Girls 4 Science is one of my favorite activities because it allows me to have a tangible effect on my community. I love being able to participate in the lessons that get young women of color excited about science because these Saturdays create potential for

more women of color to join STEM fields to change the face of medicine, research, and science. Ensuring that STEM fields in the future are filled with more people of color would be beneficial to these communities. I believe that having Black and Brown people in positions of power would not only enact change in our own communities, but hopefully change the way we are treated in the rest of the nation.





Linda McGill-Boasmond was the founding Chair of the Board of Directors for Girls 4 Science. She is owner, President and CEO of Cedar Concepts, a manufacturer of chemicals for the personal care, home, agriculture and aerospace industries, among others. McGill-Boasmond runs the country's first and only African American, womanowned chemical manufacturing plant.

Since 2013 Girls 4 Science has provided \$21,000 in scholarships for high school seniors who have completed at least 12 weeks of the G4S program. Many thanks to Linda McGill-Boasmond for funding the scholarship opportunities through Girls 4 Science since 2018.

Previous Girls 4 Science Scholarship Recipients

Darcell Creswell Western Illinois University - Graphic Communications

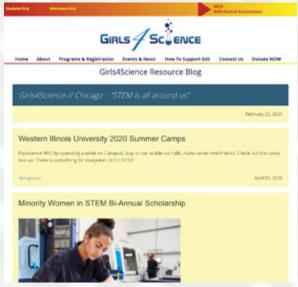
2013	Darcell Creswell, Western limitors of liversity Graphic Communications
2013	Leona Barnes, Alma College - Art, Anthropology
2014	Brooklyn Payne, Wilmington College - Biology
2016	Sairyia Jemison, Northern Illinois University – Engineering/Industrial Management
2016	Kenyana Tyiska, University of Illinois at Urbana-Champaign - Biochemistry
2016	Lauren Lomax, Central Michigan University - Recreational Therapy
2017	Sydney Shaffer, Milwaukee School of Engineering – Civil Engineering/ Environmental and Water Resources Engineering
2017	Nakia Chappell, Marquette University - Neuroscience
2017	Deasiah McIntosh, Eastern Illinois University - Criminal Justice
2017	Isabella Baumann, University of St. Thomas - Neuroscience
2018	Nia Autman, Northern Illinois University - Biological Sciences
2018	Eryn Brazil, University of Michigan - Movement Science/Public Health
2018	Sofia Santamaria, Joliet Junior College - Communications
2018	Erika Jones, University of Michigan - Aerospace Engineering
2018	Aerial Shaffer, Washington University in St. Louis - Biology
2019	Samaree Ames, Richard J. Daley City College of Chicago – Computer Technology
2019	Ariana McCray, University of Kentucky - Biopharmaceutical Engineering
2019	Morgan Pratt, University of Illinois at Chicago - Biology





www.girls4science.org/G4SA

New Resources On Girls 4 Science Web Site



www.girls4science.org/resource-blog.html

Girls 4 Science has two additions to its website. The Resource Blog, which includes programs, scholarship and internship opportunities and the G4S Alumni Association page, to engage alumni with current Girls 4 Science students and programs.

The G4S Alumni Association page provides professional development resources including video tutorials on interview help, professional networking, resume writing and self-assessment tools, and volunteer opportunities with Girls 4 Science. G4S Alumni can stay connected by joining the Girls 4 Science Alumni

Group on Facebook and Instagram, and subscribing to the G4S Alumni Newsletter, which will feature alumni spotlights, news and achievements related to women in STEM, and updates from current Girls 4 Science programs. The newsletter will also include information about local networking opportunities and provide tips to help G4S alum succeed in college, careers, and beyond.

Girls 4 Science is grateful to Horizon Therapeutics for assigning its summer college interns to set up the new web resources.



Nearly \$10,000 Raised









The G4S Advisory Board Double Good Popcorn fundraiser, August 13-17, was a smashing success, raising nearly \$10,000 to keep the Saturday STEM Academy free for all girls who want to attend. Many thanks to Advisory Board members – Yaqui Benson, Donna Jones, Mary Love, Dawn Milhouse, Joy Nunn, Riva Trivedi, Shervon Vaulx and Chistin Zollicoffer – for their active participation in the event. G4S students, alumni, parents, volunteers, Program Coordinators and Board members also contributed to the success of the fundraiser. Prizes based on dollar value of sales were awarded to students and alumni at Student Recognition and Awards Ceremony.



Winter Saturday STEM Academy MATHEMATICS



Winter Saturday STEM Academy January 18 – February 22, 2020

The Winter session was the last Saturday STEM Academy conducted in person in 2020. Under the supervision of Crystal Clear Tutoring, students assessed their proficiency in core areas of mathematics: Fractions, Geometry, Basic Math Operations, and Algebra. Through game play, students learned about the importance of financial awareness, credit and the positive and negative impact events for credit scores.

On a field trip to ArtReach Chicago students learned glassblowing and created art pieces using the principles of symmetry and temperature.

The Junior Achievement Economics Kit provided the basis for instruction on micro- and macroeconomics. Students explored the basic characteristics of the U.S. economic system and how economic principles influence business decisions. The program also introduced students to career opportunities and helped reinforce important academic and leadership skills, including research and data analysis, problem solving and critical thinking.

Students presented their business plans and budgets to their peers and parents with feedback from G4S team members. Special guests included entrepreneurs in various STEM and business professions who shared their stories of success. Special thanks to David Stampley, Brian Crag, Raven Smith, Shelia Black, Timothy Miller, and staff from Banner Witcoff.



Career Day

Thank you to our Career Day Sponsor Banner Witcoff for its participation in our Career Day activities, which took place on February 22 at the three Saturday STEM Academy locations.



Spring Saturday STEM Academy FOOD CHEMISTRY



Spring Saturday STEM Academy April 18 -May 23, 2020



The Spring session of the Saturday STEM Academy was canceled due to the Covid-19 pandemic.

When the stay-at-home order was issued, Girls 4 Science staff began planning for a transition to an online program while retaining the hands-on, experiential component of the Saturday STEM Academy. The three-location structure was maintained (Olive Harvey, Malcolm X, University of St. Francis) and participants registered for a specific "site." Classes were conducted on the Zoom platform and participants were capped at 25 per site. Family members were required to attend a virtual orientation prior to the session and "STEM Kits" with the materials necessary for the hands-on laboratory portion of the session were distributed at each college site.



Summer Saturday STEM Academy FOOD CHEMISTRY



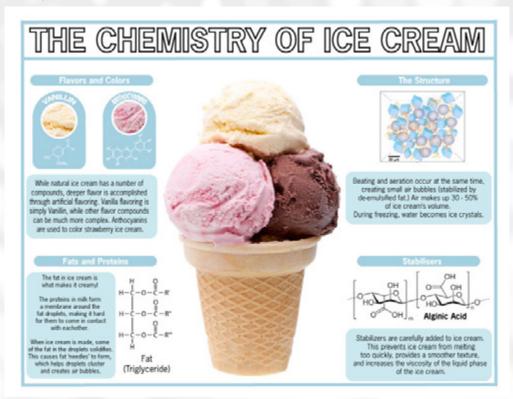
Summer Saturday STEM Academy July 25 -August 29, 2020



Candy Chromatography

The Summer Saturday STEM Academy on Food Chemistry kicked off with a class on the science of ice cream making, followed by candy chromatography, building lava lamps, kitchen density experiments to demonstrate the concepts of the scientific process, and a discussion of data reliability and ethics. There was a virtual field trip to Merieux NutriSciences, a world leader in food safety and quality. Following the virtual tour, students met with staff scientists to learn about their career

paths and what their current job entails. G4S staff and volunteer mentors facilitated class on the Zoom platform with a total of 75 students at three "sites."





Fall Saturday STEM Academy ANTHROPOLOGY



Fall Saturday STEM Academy October 3 – November 7, 2020

The Girls 4 Science Fall Saturday STEM Academy focused on Anthropology, the study of human societies and their development. Students learned about the four main subfields of anthropology: cultural, language (linguistics), archaeology and biological/physical.

Students discussed how language is used in different social settings and in social media, why people from different regions in the U.S. speak so differently and how the language we use differs by race and age. Guest speaker Dr. Allison Mickel, Assistant Professor of Anthropology at Lehigh University, showed the students how artifacts are researched and recorded and led an activity where the girls had to organize artifacts in sequence of time. Dr. Mickel talked about her career, shared her insights as a woman in archeology, and expressed the need for more girls to explore the field.

The Fall session included a virtual field trip to the Cahokia Mounds State Historic Site, Museum and Interpretive Center in Collinsville, Illinois, where the remains of the largest and most sophisticated prehistoric native civilization north of Mexico are preserved. After the field trip, the students created their own fossils using clay and learned how forensic anthropologists determine the ancestry of a skeleton by examining the shape of the skull.

Below: Noa Levi (left) and Presleigh Hilson (right) making fossils.





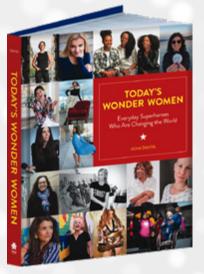
Tour guide, historian and activist, Beatrice Hardy, presented the Anthropology of Race. Students went on a virtual tour of Chicago to learn about the "great migration" of African-Americans to the city. The final class looked at the difference between beliefs and knowledge and how beliefs are shaped by opinion.

GIRLS SC ENCE



G4S participant Symone Edwards presents her business plan and budget for her Foldable Strap and Carrier business proposal during the Winter 2020 Mathematics session.

Girls 4 Science In The News



Girls 4 Science Founder & Executive Director Jackie Lomax is featured in *Today's Wonder Women: Everyday Superheroes Who Are Changing the World*, by Asha Dahya, which was published in March, 2020. This collection of stories, essays, and interviews celebrates a diverse set of inspiring women across the globe who are leveling the playing field for future generations of women and girls.



Elephant Toothpaste

G4S was featured on the Fox32 Good Day Chicago morning show during National Chemistry Week. Jackie



Lomax, G4S Executive Director and her daughter Logan talked about what Girls 4 Science is doing to get young girls engaged and active in the fields of STEM. Logan conducted an on-air science demonstration of how to make Elephant Toothpaste.



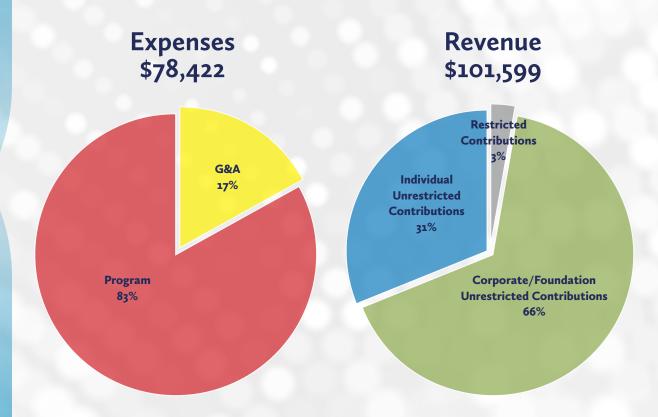
"Going on several field trips, I discovered a passion for science. Entering college next year I want to major in Forensic Science. Thank you G4S!"

- Kierson Dee Rickmon

"My name is Robert Rickmon, Kierson Rickmon's father. Kierson has been with Girls4Science since 2014. Kierson attends Lane Technical High School and will graduate in 2022. G4S has inspired her to major in Forensic Science.

- Robert Rickmon

2020 FINANCIAL SUMMARY







G4S students on field trip to ArtReach
Chicago learning math concepts through the
practice of glassblowing.

WHY STEM?

In an ever-changing, increasingly complex world, it is more important than ever that youth are prepared to bring knowledge and skills to solve problems, make sense of information, and know how to gather and evaluate evidence to make decisions. These are the kinds of skills that students develop in science, technology, engineering, and math—disciplines collectively known as STEM. Science, technology, engineering, and mathematics have always been the foundation for inspirational discovery and transformative technological innovation.

STEM education helps students gain the skills required to succeed in today's challenging world, including the ability to think critically and solve complex problems along with soft skills such as cooperation and adaptability. STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators.

STEM literacy and STEM skills are increasingly important for all people to succeed in the workplace and in their everyday lives. To simply function as an informed consumer and citizen in a world of increasingly sophisticated technology requires the ability to use digital devices and STEM skills such as evidence-based reasoning.

STEM employment in the U.S. continues to grow at a faster pace than employment in other occupations, and STEM workers command higher wages than their non-STEM counterparts. STEM degree holders enjoy higher earnings, regardless of whether they work in STEM or non-STEM occupations.4





G4S middle school participant Logan Lomax uses a leaf to create a fossil image.

WHY GIRLS?

Women comprise 50% of the US population and more than 50% of the college-bound population, yet they remain underrepresented in the STEM fields, especially women of color. While nearly as many women hold undergraduate degrees as men, they make up only about 30% of all STEM degree holders.

The gender gap in STEM begins with education. In childhood and adolescence, girls' interest in STEM is dampened by stereotypes and cultural norms that consistently portray ideal scientists, engineers and technology innovators as male. Girls participate in high level math and science courses at similar rates as males as they move into high school, and then a gender gap in participation starts as girls take fewer of the more advanced STEM courses as they get closer to college. This gap widens the longer girls are in school and larger gaps exist between students of different racial and ethnic backgrounds or family income.

There are several measures can help build STEM identity and interest among girls -- especially girls of color -- including extra-curricular and single-sex programs, Black and female role models and project-based instruction. Informal STEM experiences are useful to girls, as they provide unique opportunities to engage and connect with science in an inquiry-based manner without the academic requirements of memorization and standardized testing. Such programs can have profound impacts on girls at the time when they are involved, and these impacts relate directly to their confidence, attitudes, and future plans.





Learning the science behind blown glass on a field trip to ArtReach Chicago.

WHY GIRLS 4 SCIENCE?

G4S targets girls age 10-18 years, primarily from low- and moderate-income communities. The Saturday STEM Academy's innovative program model is based on evidence that science exposure and increased science literacy will equip young girls with the knowledge and confidence needed to pursue study in the sciences and careers in STEM.

Early exposure to STEM fields, specifically in an all-girls environment with hands-on, problem-based learning, can combat the negative stereotypes and attitudes that contribute to the under-representation of women in many STEM fields. This is especially true for girls of color. Increasing the opportunities for science exposure for girls will affect change in multiple areas including self-esteem, post-secondary study and increased employment opportunities.

The Girls 4 Science Saturday STEM Academy employs strategies that have proven successful in increasing girls' interest in, positive attitudes toward, and identification with STEM. The evidence-based aspects of the program include:

- Single-sex program.
- Science exploration through project-based instruction with emphasis on creativity, problem-solving, hands-on, small group experiential learning and teamwork, which fosters a growth mindset, self-confidence and collegiality.
- Field trips to corporations, organizations, cultural institutions and other sites that
 provide opportunities to link the concepts learned in the STEM curriculum to real-world
 applications, and expose participants to a range of STEM industries, career options and
 working STEM professionals, especially women, to redefine how they see STEM.
- Mentorships to introduce participants to female role models -- especially women of color -- who are professionals in STEM fields, to help girls see potential futures and develop resilient STEM identities.



2020 DONORS

Girls 4 Science is deeply thankful for the generosity of its donors who made gifts in 2020. Girls 4 Science gratefully acknowledges all individuals, foundations, corporations, students, parents, Advisory Board members, and members of the Board of Directors who support us and tirelessly advocate on our behalf.

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\$50,000 +

Joseph & Bessie Feinberg Foundation

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Dezarae Brooks

Noreen Corbett

Danielle McDaniels

University of St. Francis

Sandrine Davis

Sharell Howard

Jennifer Roberts

2020 VOLUNTEERS

Girls 4 Science is indebted to its dedicated volunteers who generously give their time to the Saturday STEM Academy, Women in History event, Summer Student Recognition & Awards Ceremony and other G4S activities.

Kimberly Adams Donna Jones Jenna Berting Lisa Kazmi Jason Briski Kwaku Okraku Gretchen Prem **Chrissy Coles** Cheryl Cozza **Monique Puckett Tammy Crossley** Kannan Ramsay **Katie Davis Sharidan Rickmon** Brittani Franklin Bill Schmitz **Chuck Harris** Ashley Wayman

2020 BOARD OF DIRECTORS

Girls 4 Science is led by Founder and Executive Director, Jackie Lomax, and a dynamic Board of Directors that represents a wide range of knowledge, skills and experience in education, finance, business and STEM fields.

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2020 ADVISORY BOARD

The Girls 4 Science Advisory Board comprise community leaders who advise the Board of Directors and staff on current and future work of the organization, and assist in strategic development and fundraising, and planning, promotion and execution of G4S events. The Advisory Board is also a leadership pipeline for Girls 4 Science.

Yaqui Benson

Kemper Corporate Services

Pamela D. Borders
Financial Grant Manger

Easter Seals

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UIC CHANCE Program

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