LIGHTING THE STAGE ON DIVERSITY IN STEM
When I think about the girls I’ve met this past year, one word keeps coming to mind: boldness.

I think about the courage our students have each time they take the stage to showcase their inventive performances in front of their entire student body. I think about how they boldly ask questions, take risks in the classroom, persist, and explore their intellectual curiosity. They take charge of their future and dare to be unique.

Because of this, I applaud and admire our girls. I celebrate our girls who prove time and time again that our circumstances do not define us. Given the tools and space to try something new, they too can build a future in STEM. I celebrate our supporters who believe fervently in our girls and our mission. And I celebrate a new year full of ambitious goals. Join us as we chart the path forward to see more girls tap into their creativity and love of STEM and dance.

Enthusiastically,

Yamilée Toussaint Beach
LETTER FROM BRYAN
CHAIRMAN OF THE BOARD

STEM From Dance Community Members,

Your support and engagement this year has been appreciated and put to work! During the 2018-19 school year and summer, STEM From Dance students, staff, and board have been hard at work growing as individuals, an organization, and as a catalyst for the change we seek to make.

Our activities have been numerous, most notably:

- We increased participation in our school residencies across the city and in our summer program, Girls Rise Up, bringing us to over 550 young women served to date.
- Data shows that our participants become more excited and knowledgeable about STEM and more motivated to pursue it as a career.
- We are thrilled to announce our partnership with Youth Inc., a New York based non-profit that develops and trains non-profits such as STEM From Dance to reach their potential.

As we look back at where we’ve been and how we’ve continued to grow with your support, we are inspired to push further and reach more young women across NYC. Our focus, looking into 2020, is to strengthen our programming so we can utilize our power as creative, true STEAM leaders, and leverage this to new heights for the population we serve. Since day one, we have not done this alone, and as we look to larger mountains to summit, we will continue to be grateful for your support and encouragement as a member of the STEM From Dance community.

Thank you for your time, commitment, and support as we work towards empowering more young women across NYC.

Bryan Ballegeer
“Working with coding and dance together really opened my eyes and showed me that technology and the art of dance can form together and make something really beautiful.”

MELODIA
Student Participant
At STEM From Dance, we get girls of color excited about technology and engineering. Many minority girls from low-income areas don’t dream of being scientists or engineers; not because they are unable, but because they need confidence, preparation, and exposure to careers in science, technology, engineering, and mathematics (STEM). STEM professions feature some of our country’s most high-impact and lucrative jobs, but women of color encounter barriers to entering STEM fields due to lack of confidence, readiness, and awareness. Black and Latina women comprise 15% of the US population but occupy only 4% of the STEM workforce.

STEM From Dance envisions a world where underrepresented minority girls will hold the power to be creative, confident, and equipped leaders and innovators in the STEM fields.
OUR MISSION

THE PILLARS THAT GUIDE OUR WORK

According to Change the Equation, STEM jobs in New York are projected to grow by 14% by 2024 (2015). It is not a lack of talent or intelligence that prevents young women from pursuing STEM fields, but undeveloped confidence and lack of opportunity to interact with STEM concepts in an environment that is approachable. Research suggests that the primary factors keeping girls out of STEM fields are lack of solid STEM skills, exposure, and confidence (Lemelson-MIT, 2012).

Join us in our mission to give these girls the opportunity to prepare for a STEM education that excites them. STEM From Dance is committed to accomplishing this mission through:

CREATIVE AWARENESS
Simply becoming aware of STEM careers can ignite a student’s interest to explore more.

BUILDING CONFIDENCE
Within our program, girls are more likely to ask questions, persist through confusion, and explore their intellectual and artistic curiosity.

PROVIDING EXPERIENCE
We help schools prioritize their STEM and art goals by giving girls access to essential skill-building and college prep opportunities.
2015
Women earned only 18% of all computer science degrees in the nation; that percentage dips even lower for women of color, according to the National Center for Education Statistics.

TIMELINE

MID-1980s
The representation of women in computer science peaked at approximately 40%.

1990s
After reaching a new high in the 1980’s, women’s employment in STEM will begin slowing down for the next 20 years, lowering their share in computer occupations to 27%. The rate was even lower for Black and Latina women.

2002
1.3% of the doctorate degrees earned were awarded to Black women.

2008
Yamilée experienced the underrepresentation of women of color directly, studying mechanical engineering at MIT.

2012
Yamilée launched a pilot of STEM From Dance using seed funding she won from Teach For America’s Social Innovation Award.

2018
STEM From Dance served more than 550 girls across 100 New York City schools and community-based programs.

Women earned only 18% of all computer science degrees in the nation; that percentage dips even lower for women of color, according to the National Center for Education Statistics.

1https://en.wikipedia.org/wiki/African-American_women_in_computer_science#cite_note-6
“Prior to this, I was never introduced to coding. My school never offered it and I believed that it was boring. However, STEM From Dance opened up my eyes to the range of possibilities that computer science can offer. By combining coding with dancing, I began to develop a new passion and appreciation for coding.”

KAYLA
Student Participant
OUR IMPACT

OPPORTUNITIES YEAR-ROUND

We deliver two primary programs: school residencies and a summer program. School residencies are in-school and after-school programs hosted at schools throughout New York City. Girls Rise Up, our summer experience, is a three-week program for girls across New York City.

550± SERVED TO DATE

94% PARTICIPANTS IDENTIFY AS UNDER-REPRESENTED MINORITIES GIRLS
PARTNER HIGHLIGHT

UNCOMMON COLLEGIATE CHARTER HIGH SCHOOL

Our school residences provide NYC schools and community-based organizations with our innovative program throughout the school year. Participants create technology-infused dance performances where they explore creativity, critical thinking, and the potential that lies in STEM careers.

“STEM From Dance is doing so many things well – the combination of coding and dancing each week means that students’ interests are held, and they see how something that may have seemed unattainable to them (coding) is achievable and applicable to something they really enjoy (dancing). Other strengths of the program include your meticulous planning and consistency. The leaders in the room are knowledgeable in their content. I think the program is well run and brilliant as a concept. We are so grateful to be able to partner with them!”

– Sam Pinto, External Partnerships Coordinator

85% SHOWED A POSITIVE CHANGE IN STEM ENGAGEMENT
79% SHOWED A POSITIVE CHANGE IN STEM CAREER INTEREST
92% LEARNED NEW STRATEGIES THEY CAN SHARE WITH OTHERS.
Girls Rise Up is a summer program for girls across NYC to learn how to write code, construct circuits, create movement, think creatively, and collaborate with peers.

“Girls Rise Up helped me realize that I want to pursue a career in STEM. Without knowing about this program, I would not have found my interest in STEM. This could also help many other young women like me.”

- Aisatou, Student Participant

AFTER PARTICIPATING IN THE GIRLS RISE UP PROGRAM:

- **86%** have a deeper interest and understanding of STEM careers.
- **96%** can use the skills and practices learned in the program in college.
- **88%** formed new networks of people to use as resources for the future.
FEATURED PROJECTS

Girls performed a piece about women empowerment synchronized with a projection of visuals coded using p5.js, which is a tool in JavaScript for creative visual art.

The chairs pictured light up when someone sits or stands on them. They were an original idea, design, and creation of these four students.

Girls programming lighting effects on suits provided by iLuminate Productions, a dance-tech company featured on America’s Got Talent.
“[A student] came running to me one afternoon with a giant smile on her face. She told me another group needed help with an issue with their code that even the instructor was stuck on. So when she gave a suggestion that immediately worked, she was so excited that she solved the problem before the instructor. She admitted she’d enjoy this type of work in the future.”

STACIE CANNON
Dance Instructor
THE FINANCIALS

STEM From Dance responsibly stewards the funds we receive from generous people and institutions dedicated to lighting the stage on diversity in STEM. We channel the charitable contributions from our supporters to programs that empower girls across New York City.

BY THE NUMBERS

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<th>2017</th>
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<td>Total Revenue</td>
<td>181,811</td>
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<td>Total Expenses</td>
<td>133,132</td>
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REVENUE

- Foundations
- Earned Revenue
- Corporations
- Individuals
- Local Government

EXPENSES

- Compensation & Benefits
- Professional Fees
- Program Materials
- Administrative Materials
VISION FOR THE FUTURE

LAUNCH OF A THREE-YEAR PLAN

STEM From Dance is excited to launch a new strategic plan that charts the path for our impact and growth over the next three years.

PRIORITY #1
Strengthen and codify our model of dance and STEM integration to give minority girls the awareness and preparation to pursue a STEM education.

PRIORITY #2
Multiply our impact by increasing the number of underrepresented minority girls served.

PRIORITY #3
Provide further opportunities to deepen engagement in STEM and build community after each STEM From Dance experience.

PRIORITY #4
Build STEM From Dance’s capacity to execute its strategic plan and thrive.
The world has its eye on STEM From Dance. Whether it is receiving press from NBC and MIT or being featured on Winnipeg, Canada’s top news outlets, our impact is not going unnoticed.

Further, Yamilée Toussaint Beach is next in line for a major industry honor.

- AnitaB.org, the leading nonprofit organization focused on the advancement of women technologists, announced that Toussaint Beach will receive the 2019 Educational Innovation Abie Award.

- Toussaint Beach was also selected by the American Association for the Advancement of Science (AAAS) as an Ambassador. The Ambassador program brings together 100 women from a variety of STEM professions to serve as high-profile role models for middle school girls.

STEM From Dance expresses the utmost gratitude for our supporters. The following donors gave generously to support our mission in 2018-2019.
GET INVOLVED

CHARGED UP BY THE WORK WE ARE DOING?

Here are different ways you can support STEM From Dance.

DONATE

Further the impact of our work by making a gift. Your contribution, no matter the amount, will help us light the stage on diversity in STEM. Donate at stemfromdance.org/donate.

ATTEND

Join us on Wednesday, November 13 for Youth Inc’s 2019 Celebration to Benefit New York Kids. 100% of ticket purchases go to STEM From Dance. Learn more and buy a ticket at give.classy.org/stemfromdance.

CONNECT

Do you know of women in STEM who can inspire the next generation? Companies that can host an incredible field trip or internships for our students? Like-minded people who are doing innovative work in STEM and dance? Email us at info@stemfromdance.org. Connect away!
THANK YOU

stemfromdance.org