2021 ANNUAL REPORT
OUR MISSION & VISION

HYPOTHEkids is a STEAM (Science, Technology, Engineering, Art & Design, Math) education and youth development initiative that supports students of all ages from underserved communities across New York City. We provide our students with hands-on, engaging, STEAM education and mentorship experiences to support the next generation of scientists and engineers.

HYPOTHEkids was founded in 2013 in advance of the opening of NYC’s first affordable biotech incubator for early stage life science companies, Harlem Biospace. To date, we have served over 18,000 young people.

Our vision is to create a STEM talent pipeline that is representative of the diversity of New York City.
OUR APPROACH

OPPORTUNITY
Students are afforded access to summer enrichment and internship experiences in cutting-edge research labs. These opportunities can enhance academic outcomes, college applications, and connections to post-secondary career paths.

MENTORSHIP
Students can see themselves in the scientists, engineers, and teachers they meet through our programs, which helps to redefine their ideas about who is capable of engaging in STEM studies and careers.

CURRICULUM
We design curriculum that fosters curiosity, critical thinking and creative problem solving through hands-on activities and experiments.
THE NEED:

The vast majority of NYC K-12 students do not have the opportunity to do hands-on science and engineering in their school day, after school, or as career exploration internships.

68% of NYC’s population is made up of people of color, yet only 15% of engineers are people of color while even fewer (7%) are scientists.¹

NYC already has the largest biotech workforce in the country with average salaries increasing 67% since 2010.² We need a biotech talent pipeline that is representative of the diversity of NYC with programs that prepare students for jobs in this burgeoning industry.

OUR 2021 IMPACT:

- 2,010 elementary aged students received up to 60 hours of hands-on science instruction.
- 220 high school students did hands-on engineering in the summer or at their schools with teachers who trained with us through our Hk Maker Lab co-learning professional development program.
- 91% of our program alumni have gone on to pursue four year STEM degrees.
- 26 students completed paid internships in research labs at Columbia, Weill Cornell Medicine and Memorial Sloan-Kettering Cancer Center.

¹ Dept of Labor statistics 2019 ² NYCEDC 2020
STUDENT PROFILE: LAYTON ZHANG

When we opened our doors to our first summer STEAM elementary program in 2014, Layton was there. Living nearby in West Harlem, he went on to do seven more weeks that first summer and came back the following years. In 2018, he did our middle school program, Hk STEAM Up! and in 2021, Layton successfully completed our Bioforce program and interned at Columbia University in Dr. Sinisa Vukelic’s lab. His research project was on the UV protection offered by varying types of clothing materials. Layton is currently a senior at Laguardia High School and hopes to pursue a degree in biochemistry.

We moved to the US after the passing of my father and we felt very isolated coming to America and “starting over” again. I think that HYPOTHEkids did a great job at creating community and nurturing a passion for science in many of the students. Ice cream Fridays were my highlight! In a way, the love for science that HYPOTHEkids has developed within me has given me the confidence to lead others and share more information about a field that I am well-versed in.

- Layton Zhang
Laguardia High School
ELEMENTARY: HYPOTHEkids SCIENCE CLUBS

Bringing together over eight years of experience in elementary programming, HYPOTHEkids Science Clubs combine innovative curriculum and teacher training models, with our special HYPOTHEkits, pre-packaged supply boxes for all lessons in the program. We aim to dramatically increase access to hands-on, inquiry-based science programming for underserved students and bolster the number of potential teachers of STEAM subjects.

This program is made possible with support from:
We launched HYPOTHEkids Science Clubs on February 1st, 2021, partnering with community-based organizations serving students living in NYC Housing Authority (NYCHA) residences and other low-income housing. By the end of 2021, over 2,010 students have had the opportunity to do up to 60 hours of hands-on science at 35 sites in all five boroughs.

We hope to give our partners the capacity to offer our program themselves by making the curriculum simple to implement through easy to use HYPOTHEkits and where needed, sending in our own instructors to address staff shortages.

**LOOKING AHEAD TO 2022 AND BEYOND:**

We would like to build our capacity to offer a HYPOTHEkids Science Club in every NYCHA community center, aiming to serve at least 12,000 children.

In surveys we saw a:

- **16%** increase in STEM confidence
- **17%** increase in understanding of what engineers do and by learning engineering, they can improve things people use everyday
- **13%** increase in students indicating they might choose a STEM career
HIGH SCHOOL: NEW YORK BIOFORCE

26 students successfully completed their virtual science research internships under the guidance of scientists at Columbia University, Weill Cornell Medicine and Memorial Sloan-Kettering Cancer Center.

STUDENTS TOLD US THAT BIOFORCE:

- Made them feel more prepared for the general demands of higher education including in the development of skills such as time management and self-motivated learning that have become essential in this learning environment.
- Made them feel better prepared than their peers who had not gone through the Bioforce program.
- Expanded their understanding of the breadth of opportunities for careers in the life sciences. Many reported that this opportunity helped them refine their future career goals and interests.
- Helped them recognize their own growth through the summer and they reported an increase in their confidence in pursuing future research opportunities.

LOOKING AHEAD TO 2022 AND BEYOND:

We have received funding from the Here to Here Braided Pathways initiative to incorporate work-based learning into students’ academic experiences, a key driver for an equitable talent development strategy and central to a thriving, inclusive economy. For the first time, we will be offering Bioforce at a NYC high school, Comp Sci High in the South Bronx.

This program is made possible with the generous support from:

The Pinkerton Foundation
HIGH SCHOOL: Hk MAKER LAB

20 NYC public high school students participated in our virtual engineering design program, working in teams of four to identify biomedical problems for which they could design effective solutions. Students learned the engineering design process through a series of interactive workshops led by Dr. Aaron Kyle and then applied their design skills toward devising novel biomedical technologies. Technical skills labs complemented the design workshops by introducing students to key tools and techniques for bringing biotechnology designs to life. Each student received a kit of electronics and physical computing materials, circuit components and biosensors that was utilized during a series of hands-on bio-instrumentation labs. Additional labs introduced the cohort to 3D modeling through OnShape and TinkerCAD.

At the conclusion of the five-week program, students presented their projects to an audience of friends, family, NYC educators, as well as biomedical scientists and engineers. The projects included: a wearable device that predicts panic attacks by analyzing vital signs; an at-home system for preventing dental plaque build-up in people who wear braces; a low-cost, easy-to-use surgical instrument sterilization device for low-resource settings; a wearable personal cooling system to prevent hyperthermia in athletes; and a portable fetal heart rate monitor for pregnant women in low-resource settings.

One new teacher co-learned with the students, and two teachers are continuing their work with us this year. We will support these teachers as they launch (or re-launch) novel engineering classes this academic year.

This program is made possible with the generous support from:
# Financial Report

**HYPOTHEkids, Inc. Statements of Activities Years Ended August 31, 2021 & 2020**

## Public Support and Revenue

<table>
<thead>
<tr>
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<th>2021</th>
<th>2020</th>
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</thead>
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<tr>
<td>Program Revenue</td>
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<td>$10,419</td>
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<td>Foundation Contributions</td>
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<td>347,721</td>
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<td>Donations</td>
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<td>Other Income (PPP, ERC)</td>
<td>61,067</td>
<td>28,398</td>
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<td><strong>Total Public Support and Revenue</strong></td>
<td><strong>$672,498</strong></td>
<td><strong>$389,155</strong></td>
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## Program Expenses

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<thead>
<tr>
<th></th>
<th>2021</th>
<th>2020</th>
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</thead>
<tbody>
<tr>
<td>Payroll &amp; Payroll Taxes</td>
<td>291,609</td>
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<tr>
<td>Employee Benefits</td>
<td>17,213</td>
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<td>Supplies &amp; Materials</td>
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<td>Education Services</td>
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<td>Professional Fees</td>
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<td>Occupancy</td>
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<td>Information Technology</td>
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<tr>
<td>Shipping &amp; Postage</td>
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<td>Travel &amp; Transportation</td>
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<td>Insurance</td>
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<td>Telecom</td>
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<tr>
<td>Uniforms</td>
<td>1,245</td>
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<tr>
<td>Meals &amp; Entertainment</td>
<td>348</td>
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<tr>
<td>Advertising</td>
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<tr>
<td>Internship Fees</td>
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<td><strong>Total Program Expenses</strong></td>
<td><strong>472,269</strong></td>
<td><strong>247,445</strong></td>
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## Management and General Services

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<td>Payroll &amp; Payroll Taxes</td>
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<td>Information Technology</td>
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<td>Payroll Fees</td>
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<td>Office Expenses</td>
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<td>Marketing &amp; Printing</td>
<td>900</td>
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<tr>
<td>Insurance</td>
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<td>Meals &amp; Entertainment</td>
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<tr>
<td>Travel</td>
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<tr>
<td><strong>Total Management and General Services</strong></td>
<td><strong>122,878</strong></td>
<td><strong>100,701</strong></td>
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**Total Expenses**: $595,147 & $348,156

**Change in Net Assets**: $77,331 & $40,999

**Net Assets, Beginning of Year**: $346,017 & $305,108

**Net Assets, End of Year**: $423,348 & $346,017
OUR SUPPORTERS AND DONORS

OUR PROGRAMMING IS ONLY MADE POSSIBLE WITH THE GENEROUS SUPPORT OF OUR DONORS AND FUNDERS:

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Janus Property Company
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Pinkerton Foundation
Siegel Family Endowment
Schrodinger
Verizon Foundation
WellMet Group
West Harlem Development Corporation

and generous individual donors and board members

OUR PROGRAMMATIC PARTNERS INCLUDE:

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Memorial Sloan-Kettering Cancer Center
Moshelu Montefiore Community Center
Neighborhood Initiatives Development Corporation
Street Lab
United Activities Unlimited
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RASHIDA ROBINSON
CURRICULUM CONSULTANT

JASKIRTI GHATAURE
BIOFORCE CONSULTANT
**HYPOTHEkids** is a 501(c)3 nonprofit organization dedicated to inspiring, educating, and preparing K-12 students with the science, technology, engineering, art & design, and math skills necessary to pursue 21st century opportunities in New York City.

**TO LEARN MORE ABOUT OUR WORK VISIT HYPOTHEkids.ORG**

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