

**SPACE
SCHOOL**

HASSE

***Maaz Zuberi, Francesca Nemati, Sarah
Luan, Sophia Rebello, Luke Yuen***

HASSE Team



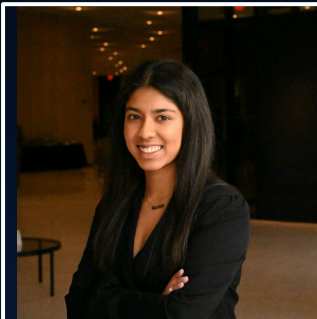
Francesca Nemati
McMurtry '26



Maaz Zuberi
Jones '25



Luke Yuen
Will Rice '25



Sophia Rebello
Will Rice '25



Sarah Luan
Jones '25



01 BACKGROUND

STEM summer programs boosted the likelihood of students **graduating college** by up to

33%

Still, students are **limited** to STEM education due to **narrow views of summer school** that students and families have



ABOUT HASSE

The Houston Association for Space and Science Education (HASSE) **inspires** and **empowers students** in **STEM**, particularly **space exploration**, by connecting them with **influential figures** and **showcasing career pathways**.

DISRUPT

2023 SPACE SCHOOL

BELIEVE IN YOURSELF



Space School Virtual Program

"I met many foreign students and became friends with them, Space School enhanced my knowledge of Space!"

- Cindy Cheng | Class 2019 -

Educational Psychology and Counseling, National Tsing Hua University

Schedule time with us
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MARS GENERATION

18, Alyssa Carson is the first to complete the NASA Passport Program, and being one of seven ambassadors who represent Mars One, a mission that aims to establish human colonies on Mars by 2030

Meet Alyssa at #hasseschool



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Educational Psychology and Counseling, National Tsing Hua University



Space School Virtual Program

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ASTRONAUT DR. LEROY CHIAO

Message from Leroy Chiao



Watch on  YouTube

Copy link

HASSE

A video thumbnail for Dr. Leroy Chiao. He is a middle-aged man with short dark hair, smiling broadly. He is wearing a black polo shirt with a gold logo that says "HASSE". In the background, there are several model rockets on a shelf.

ASTRONAUT DR. FRANKLIN CHANG DIAZ

Message from Franklin Chang Diaz



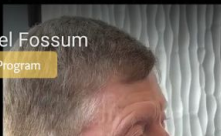
Watch on  YouTube

Copy link

A video thumbnail for Dr. Franklin Chang Diaz. He is a middle-aged man with short dark hair, looking directly at the camera. He is wearing a blue button-down shirt. He is pointing his right index finger towards the camera. The background shows an office or laboratory setting with wooden doors.

ASTRONAUT MICHAEL FOSSUM

Astronaut Michael Fossum



Copy link

Space School Virtual Program

A video thumbnail for Astronaut Michael Fossum. It shows a close-up profile of his face as he looks out of a window, likely inside a spacecraft or space station. The background is bright and slightly blurred.

ASTRONAUT DR. SHALIZHAN SHARIPOV

Message from Shalizhan Sharipov

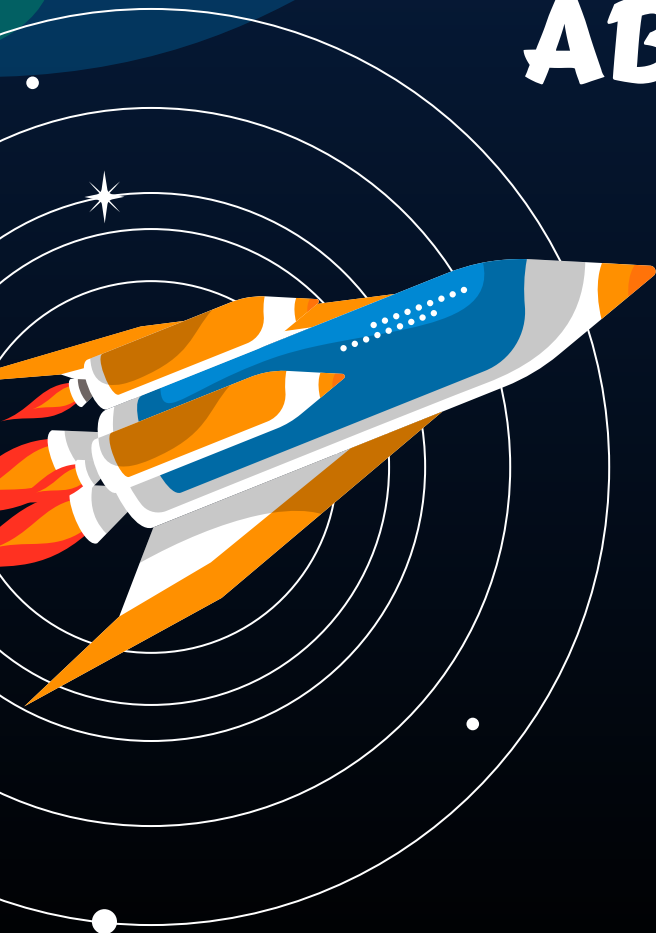


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Schedule time with us powered by Calendly

A video thumbnail for Dr. Shalizhan Sharipov. He is a man with dark hair, smiling. He is wearing a dark jacket. The background shows the interior of a spacecraft or space station, with various panels and equipment visible.

ABOUT HASSE



Currently has strong connections internationally and with **University of Houston, Texas A&M, and Rice University**

Relies on **word of mouth** for students to learn about their programs



PROBLEM SPACES



Difficulty **connecting** with **high school students**



HASSE is looking to have **more established relationships** with local high schools

Users



Students



**Parents,
Teacher**

User Persona → Meet Isabella

- **A passionate high school student**
- **Dreams of an inspiring STEM curriculum**
- **Has limited access to opportunities in STEM**
- **Aspires to pursue a career in STEM and seeks experience**

STAKEHOLDERS



Schools

Greater Houston public & private schools

OUR PARTNERS AND ASSOCIATES





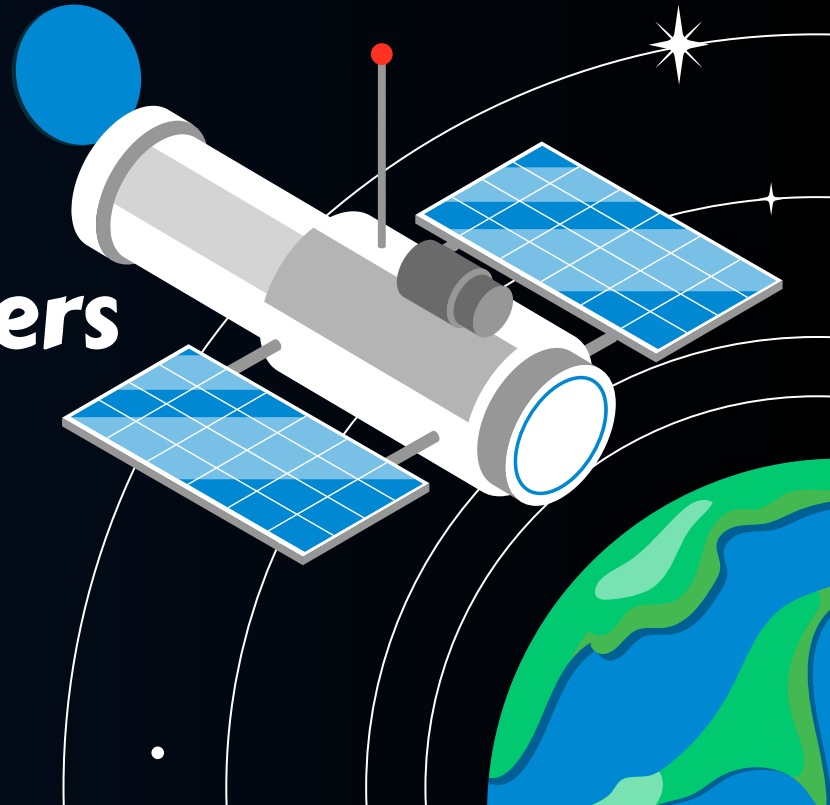
Community Partner
James CY L.

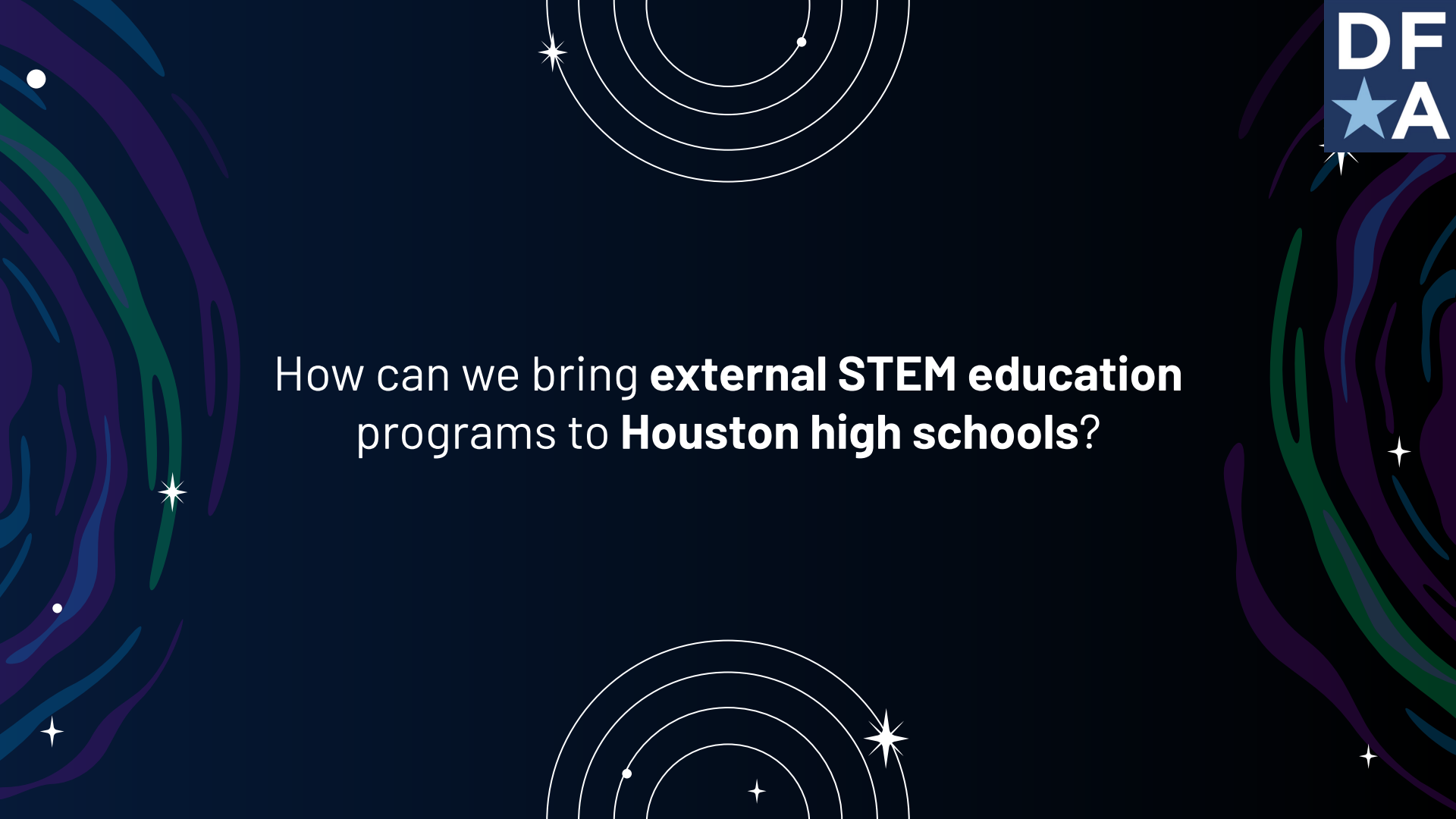
Co-founder of HASSE

02

Learning About Our Users

INTERVIEWS & RESEARCH



The background is a dark blue space-themed illustration. It features several galaxies with swirling purple, blue, and green patterns on the left and right sides. In the top and bottom center, there are diagrams of concentric white circles representing orbits, with small white dots representing celestial bodies. Scattered throughout the space are various white star shapes, including simple four-pointed stars and larger, more complex multi-pointed stars.

How can we bring **external STEM education**
programs to **Houston high schools**?

KEY INSIGHTS: USER SURVEY

[3 Minute Survey] STEM Program Questionnaire

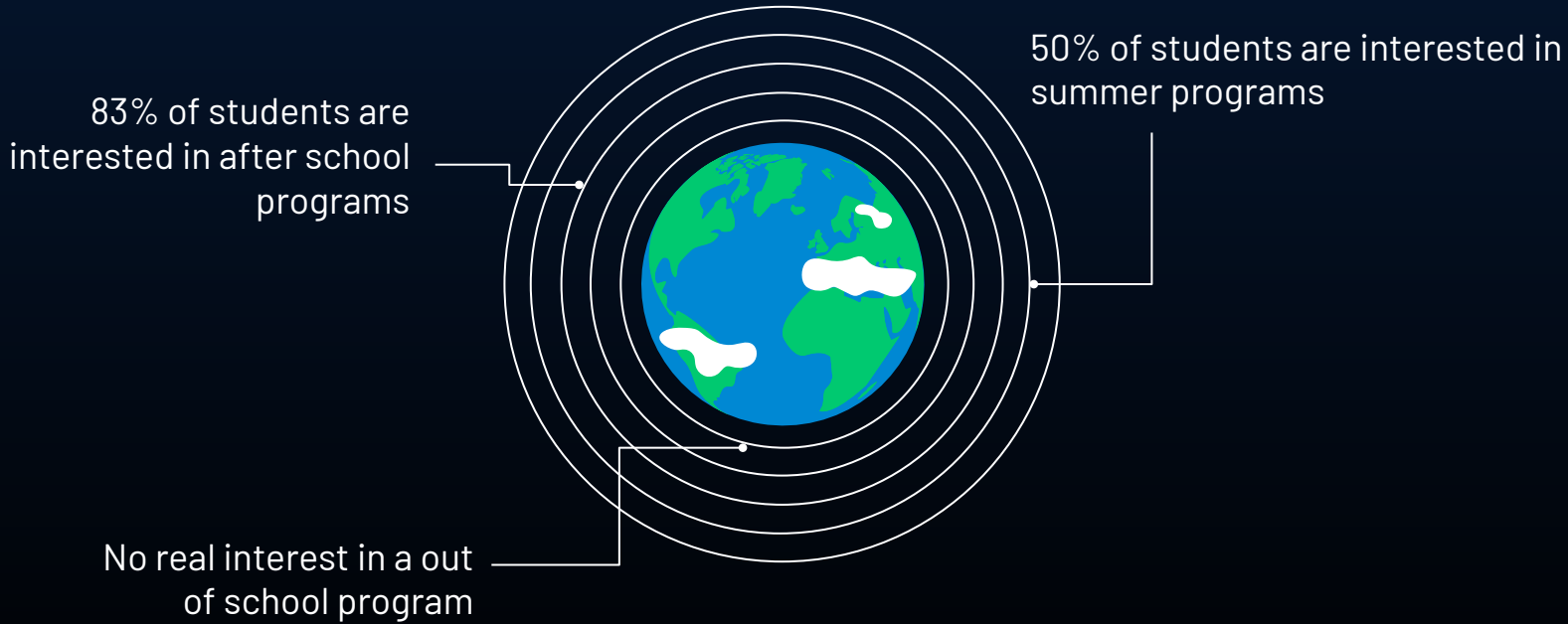
Hi Houston area High Schoolers! We are a student group from Rice University looking to learn more information about STEM programming in school/out-of school here in the Houston area! It would help us out a ton if you could fill this out.

For anyone who completes this form, you can be entered into a raffle to win an opportunity to win a free **personal Rice University tour** with **resume prep** tips, as well as any other questions/help you want when it comes to your Rice application.

NOTE: this is a student survey, click here for parent/teacher STEM survey:
<https://forms.gle/qVwkv8HfwFLDaqsu9>

- 12 Schools contacted
 - 5 student responses
 - 1 Teacher response
 - (Energy Institute High)

KEY INSIGHTS: STUDENT INTEREST



NEW DRIVING QUESTION:

How can we develop a **personalized after-school STEM curriculum** that caters to individual students' learning styles and preferences, **fostering a deeper passion for STEM subjects?**

DESIGN GOALS



1. ACCESSIBILITY

How can we make HASSE affordable? How will students access the programming?

2. PERSONALIZED

Creating programming that is designed around the students.

3. SCALABILITY

Future proofing the solution to meet the needs now and beyond.

MEASURES OF SUCCESS



SHORT TERM

one new program at a Houston HS where 20+ students attend



LONG TERM

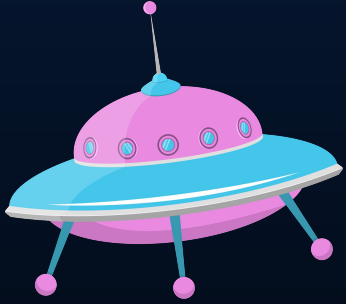
25% increase in students attending HASSE summer program

PAST CHALLENGES

TRAVEL



STEM



FUNDING



ONLINE



INITIAL SOLUTIONS



**CONNECT WITH
YOUTH**

**REFINE CURRICULUM
FOR DISTRIBUTION**

WEBINAR LECTURES

THANK YOU!

What are some creative ways to connect with users?

What do we inspire passion in youth?