

JULY 2023

WISH UPON A STAR

PULL-OUT
ASTRONOMY
POSTER

PUZZLES
AND
GAMES!

PARK
RENOVATION

SHORT
STORIES
AND POEMS

WHAT IS
ChatGPT?

JOBS OF
THE
FUTURE!

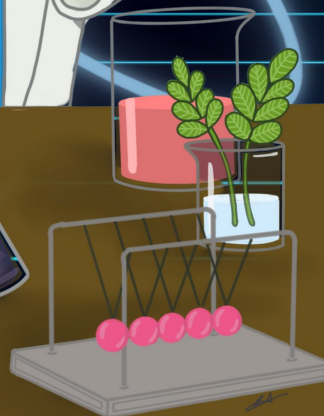


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About the cover: Our mascot Dr. Dingolay takes centre stage in our theme for this issue, which is "THE FUTURE". Join Dr. Dingolay in the journey through all different aspects of our technological future dealing with data science and venturing into space and so much more!

Cover Illustration: KAYLAN-MARIE ACHONG

Editorial

Dear Readers,

What a joy it is to bring another issue to you of our annual publication “WISH Upon A Star”! We are proud to say that the WISH Foundation is now in its third year of operation and aptly, this is the third issue. The motive for the production of the magazine is primarily for the children of the homes we support. Each child gets a hard copy. As a foundation, our mission is not just goodwill, but mentorship, support and access to science and technology as well. The future is going to be increasingly based in science and technology, and as citizens of planet Earth, no child must be left behind!

This drove the idea for the theme of this issue – “The Future”. Therefore, you will find among these pages, articles relevant and important to our future not just in Trinidad and Tobago but as humanity as a whole. As always, we are very pleased to feature local icons as they are a source of inspiration always to us! We are so excited that author Carolyn Ali donated copies of her novella to the children’s homes and you can read about her journey in her inspiring writing career.

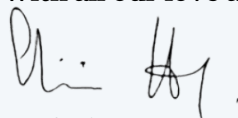
You will always see a leaning towards, “Women In Science” for us naturally. As the founder and CEO of the WISH Foundation, it is what motivated the creation of this foundation to ensure that all children were empowered and were exposed to the beauty of science. Historically, despite their abilities, women and girls in

science have not always had the same opportunities available to them. As such, to this day in 2023, women remain underrepresented especially in fields like Physics, Mathematics and Computer Science. Think of how much girl power the world is missing out on! We must strive now not just for equality but equity as well.

We hope you enjoy the pull-out poster as the centre spread to decorate your walls. The universe is an endless source of inspiration.

To all the supporters and well-wishers of the WISH Foundation, we say a deeply heartfelt thank you. None of this could be possible without you. An idea goes nowhere without persons to help make it come to fruition and that is just what our journey in the WISH Foundation has been. You have shown what the goodness in humanity, once we come together, can achieve. Thank you.

With all our love at the WISH Foundation,



Prof. Shirin Haque

Editor-in-chief

CEO/Founder

Anthony N. Sabga Awards Laureate for Excellence in Science & Technology (2020)

Meet The WISH Foundation!

The "Women In Science for Hope" (W.I.S.H.) foundation was formed in December 2020 and legally incorporated as a non-profit organization in 2021. The board of directors are the founder and CEO, Prof. Shirin Haque (Astronomer), the treasurer Mr. Deva Sharma (Architect) and Secretary, Mrs. Darnelle Hamilton (teacher). Also, on the executive is member Ms. Bhanumattee Ramdhanie (Chemist).

Annually, on average the team engages in quarterly events. These include the Christmas drive to get presents to each child in the homes that WISH works with, and is achieved by the tremendous support of the donor base. This is followed in April by a drive to gather and distribute groceries and toiletries to each of the homes. By mid-year, efforts go into the production of the "WISH Upon A Star" magazine you are reading right now! This is possible all through volunteer effort. September is Science Month with distributions of science kits, books and posters. In 2022 Republic Bank partnered with us for the distribution of lunch kits and pencil cases.

Along the way, there is the observance of days like "Women and Girls in Science" day in February with competition and prizes for the children or the distribution of empowering books for girls. Volunteers have assisted with lessons for the children in the homes. WISH Foundation also assists in the occasional request it may get from time to time especially in assisting families during COVID, or as happened, a family who lost their home to a fire. The foundation has also been the donor of prizes for girls in science.



Prof. Shirin Haque



Mr. Deva Sharma



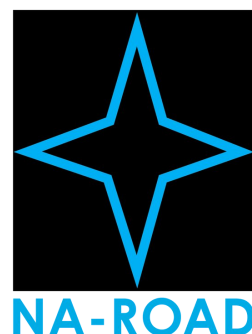
Mrs. Darnelle Hamilton

In 2023, the foundation took up a significant project in renovating the defunct play park in the Vishok Bhavan Swaha Home, which is showcased as a special feature in this issue. None of this could be possible without the support of all the angels who have donated time, money and energy to all these efforts. We have received support from the corporate sector as well, including Massy Stores, X-tra Foods, Tru-Valu, Jo-Sing, National Flour Mills, Naisa Products, ANSA Coatings and Republic Bank.

Professor Shirin Haque has been the joint recipient of a grant from the International Astronomical Union (IAU), Office of Astronomy Outreach (OAO) in 2022, which has allowed for the production of posters, a book “Our Caribbean Sky” and an astronomy kit for distribution in part to the homes as well. This year, in 2023, she received a mini-grant for the distribution of binoculars, planispheres and book to the homes with girls. We are thankful to the NA-ROAD’s Women and Girls in Astronomy Program and the Heising-Simons Foundation for supporting this project.



Ms. Bhanumattee Ramdhanie



**“SCIENCE MAKES PEOPLE REACH SELFLESSLY FOR TRUTH AND OBJECTIVITY;
IT TEACHES PEOPLE TO ACCEPT REALITY, WITH WONDER AND ADMIRATION,
NOT TO MENTION THE DEEP AWE AND JOY THAT THE NATURAL ORDER OF THINGS
BRINGS TO THE TRUE SCIENTIST.”**

**LISE MEITNER, AUSTRIAN-SWEDISH PHYSICIST WHO WORKED ON
RADIOACTIVITY AND NUCLEAR PHYSICS.**

A Passion For Science And Research



Dr. Stephanie Mohammed
BSc., Ph.D.

Were you always interested in science? If not, what led you to this path?

Since a young age, I have always been fascinated by science, but I never truly comprehended it. When I was in secondary school, I applied to study science in Form 3, because all the smart kids were there, but I was deferred to the food and nutrition stream.

I spoke with the physics teacher, and she advocated for me to join her class. Initially, it was challenging because I joined late, but then we were tasked with designing our own experiment, and I created an aluminum cooker, essentially a box that fries eggs when heated by the sun. This experience deepened my passion for science as I began to learn about prominent scientists and their remarkable work. I was introduced to the concept of the Nobel Prize, which thrilled me since it is the highest honor for a scientist and I started watching all the ceremonies. Additionally I had an affinity for medicine, and I attempted to merge my adoration for both fields. As a result, I can now apply physics principles to the medical sector.

What was your Ph.D. research about?

In my doctoral research, I investigated an endocrine disorder that affects women's fertility, specifically polycystic ovaries. To observe any possible impact, I induced this condition in rats and exposed them to electromagnetic radiation. My aim was to demonstrate that EMR is harmless and has no impact on this condition. However, to my surprise, the study showed that the radiation seemed to slow the growth of follicular cysts. Although uncertain of its applicability to humans, since there are numerous animal models to depict women's condition and symptoms like PCOS, I believe that this discovery could prove beneficial if additional experiments are conducted and the appropriate frequency is determined.

What has been your most meaningful experience in life?

Undoubtedly, the most significant experience of my life has been the opportunity to conduct medical research. I have always believed that people out there are waiting for us, "the scientists in the lab," to make new discoveries, find cures for diseases, and assist the world in some way. I believe that every person has a role to play, no matter how small in making this world a better place. Science brings me joy, and I find fulfillment in contributing to the field through teaching, research, conferences, or even talks. This has become the most meaningful aspect of my life because I am constantly adding value to society.

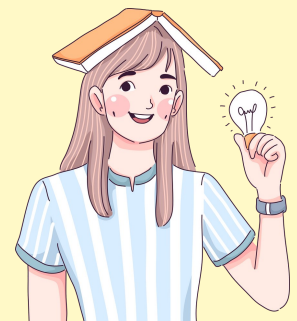
Do you think we need more girls in science in Trinidad and Tobago?

Definitely YES!! Research has consistently shown that having more women in Science, Technology, Engineering, and Mathematics (STEM) fields is essential for achieving diversity, promoting innovation, and addressing gender disparities in these areas. In Trinidad, as in many other parts of the world, there is need for increased representation of girls to pursue STEM fields.

What is your favorite quote ?

My most cherished quote is "Forward ever, backward never," which my uncle often told me whenever I encountered obstacles in life. Additionally, the quote by Marie Curie, my most favorite scientist "Nothing in life is to be feared; it is only to be understood. Now is the time to understand more, so that we may fear less," resonates deeply with me.

you
can
do it!



In the Ceiling

Dreams whispered encouragement into my heart
As they flitted across the ceiling;
I let my imagination be free
Following where it leads me.

I see joy in the future,
Where these dreams manifest.
I feel peace, at ease with myself
Knowing I can finally rest.

Night time becomes an adventure
Where my thoughts transport me to and fro
Anywhere I can think of,
I shut my eyes and go.

The past has quietly surrendered,
The present is a gift as it is
The future is to be expected,
With faith, excitement and bliss.

- Kassie-Anne Kalloo



I CAN BE...

SOLVE THIS WORD SEARCH PUZZLE TO DISCOVER SOME OF THE POSSIBILITIES FOR FUTURE CAREERS

U	A	V	U	A	G	B	B	V	G	E	E	R	B	F	C	D	B
D	C	M	T	S	E	O	H	N	A	L	N	P	U	M	A	G	I
S	C	E	S	T	O	T	W	J	V	E	G	H	S	A	R	H	O
E	O	C	S	R	L	A	B	P	T	C	I	K	I	N	P	V	L
C	U	H	D	O	O	N	A	K	T	T	N	J	N	A	E	C	O
R	N	A	F	N	G	I	N	B	E	R	E	D	E	G	N	H	G
E	T	N	N	O	I	S	K	C	A	I	E	O	S	E	T	E	I
T	A	I	U	M	S	T	E	O	C	C	R	C	S	R	E	M	S
A	N	C	R	E	T	S	R	D	H	I	I	T	M	Q	R	I	T
R	T	F	S	R	M	W	E	E	E	A	Y	O	A	T	B	S	D
Y	X	V	E	C	K	M	I	R	R	N	P	R	N	X	D	T	R
Z	M	A	T	H	E	M	A	T	I	C	I	A	N	M	N	K	A

Find the following words in the puzzle.
Words are hidden → ↓ and ↘.

ACCOUNTANT
ASTRONOMER
BANKER
BIOLOGIST
BOTANIST
BUSINESSMAN
CARPENTER

CHEMIST
CODER
DOCTOR
ELECTRICIAN
ENGINEER
GEOLOGIST
MANAGER

MATHEMATICIAN
MECHANIC
NURSE
SECRETARY
TEACHER

BY: KAYLAN-MARIE ACHONG

"Bahia Girl" Comes Alive With Carolyn Ali



I understand you were a teacher. Since when have you wanted to be a writer?

As a student at Mausica Teachers' College, I entered a competition for short stories and I won.

The prize was a weekend at the Hilton. Subsequently, I took part in other competitions with some measure of success.

This is your first romance novella. What inspired you to go in this direction?

I always wanted to try my hand at writing a novel/novella. I wanted to write a happy story because the Covid lockdown had so many of us sad.

Have you been to Brazil and Bahia in particular and why the choice of Bahia for this book?

No, I have not been to Bahia. When I was toying with the idea, I saw a documentary on Gayelle about David Rudder's visit to Brazil. I was amazed to see how joyfully the Brazilians joined David in singing Bahia Girl. This was a real eye-opener.

There is a lot of factual information built into the novel about the culture of Trinidad and Brazil, apart from the story line. What was your motivation for that?

I wanted to do a comparison of the two cultures--carnival, food, festivals etc.

David Rudder's Calypso is a recurrent theme in the book, any reason for that?

David Rudder is a fantastic lyricist. His calypsos are uplifting and memorable. He knows how to mesmerize his audience.

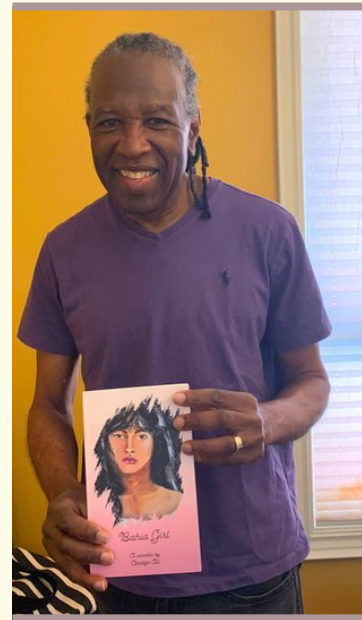
What's your next project?

My next project is a book for the infant level. Students will learn about basic shapes. I have used paintings to demonstrate this concept. It is also an activity book to reinforce what was learned. The book is titled "Shapes in Art".

Any words of advice to young people who want to be writers?

My advice is to read a lot. At any given time I am reading 3-4 books. Reading will help you build vocabulary, expose you to plots and sub-plots, characterization,

setting and all the other elements that go into writing. Do not force yourself to write, rather write when you have the urge to do so. Good luck with your writing.



The Best Of Humanity!

Swaha Vishok Bhavan Children's Home Play Park Refurbishment

One casual day upon the delivery of donation items to the Swaha Vishok Bhavan Children's Home from the WISH Foundation, our eyes fell upon the children's park which clearly was no longer currently in use. Grass was overgrown and the concrete tables and benches wore the weathering of time even as the metal and seats on see-saw were worn away and rusted. I was reminded of my late father Dr. Syed Haque's parting message to me always - Help Humanity.



A quick discussion with the executive board and it was unanimous that we must undertake its refurbishment. The value of outdoors is undeniable for mental health and well-being for the children in this case. To be honest, we underestimated the work required to bring it back up to functionality. But a most wondrous and inspiring thing was in store for us...and that is what I call the best of humanity!

The volunteerism to bring this park back up to speed was phenomenal to say the least. I was often choked up as fathers, uncles, mothers, sons and daughters volunteered their Sundays, rain or shine to spend countless hours sawing, nailing, and painting- happy for my humble cheese paste sandwich lunch. We were witnessing the best of humanity, the hope that makes all dreams come true against all odds!



Like all renovation projects, there were cost overruns, unforeseen delays and change orders, but the end was worth every bit of delay, backache and sunburn that many happily endured to make this a reality for the children. We are very grateful for the support from ANSA Coatings Ltd for the donation of the paints and their staff support towards this outreach project. And if there be angels on earth, they appear in the form of Mr. Ray Jacob and his daughter RayAnn who embraced this project to heart to ensure all that needed to be done was achieved. To all who supported this project with encouragement, financially, and physically – thank you from the bottom of our hearts!





EXPERIENCE THE MIGHTY AURORAS OF JUPITER

The Jovian cloudscape boasts the most spectacular light show in the solar system, with northern and southern lights to dazzle even the most jaded spacetraveler. Jupiter's auroras are hundreds of times more powerful than Earth's, and they form a glowing ring around each pole that's bigger than our home planet. Revolving outside this auroral oval are the glowing, electric "footprints" of Jupiter's three largest moons. NASA's Juno mission will observe Jupiter's auroras from above the polar regions, studying them in a way never before possible. Photo Credit: NASA/JPL

RELAX ON

KEPLER-16b



Like Luke Skywalker's planet "Tatooine" in Star Wars, Kepler-16b orbits a pair of stars. Depicted here as a terrestrial planet, Kepler-16b might also be a gas giant like Saturn. Prospects for life on this unusual world aren't good, as it has a temperature similar to that of dry ice. But the discovery indicates that the movie's iconic double-sunset is anything but science fiction. Photo Credit: NASA/JPL

THE LAND OF TWO SUNS

WHERE YOUR SHADOW ALWAYS HAS COMPANY

MATH TEASERS

Alien Invasion Challenge

Three types of aliens have invaded earth : Green aliens, blue aliens and yellow aliens.

All of the invading aliens are green aliens except for three.

All of the invading aliens are blue aliens except for four.

All of the invading aliens are yellow aliens except for five.



How much of each type of alien has invaded Earth?



ANS: 3 green aliens, 2 blue aliens and 1 yellow alien.

The Sum of Planets

From the math equations below, do you think you can figure out the value each planet represents ?

$$\text{Earth} + \text{Earth} + \text{Earth} = 9$$

$$\text{Mars} + \text{Mars} + \text{Earth} = 8$$

$$\text{Mars} + \text{Mars} + \text{Earth} = 7$$

$$\text{Earth} \quad \square \quad \text{Mars} \quad \square \quad \text{Mars}$$

ANS: Earth = 3, Yellow = 2, Red = 3

BY: KAYLAN-MARIE ACHONG

Planet Aegeus

The central hub for interplanetary travel recently connected a new planet to its travel system. The research equipment recorded tremors and temperature spikes, but the preliminary readings noted no such anomalies. To clarify the inconsistencies, an engineer, Eugene, was sent to check the equipment. The expedition should have taken a few days, but after a week, no response was received. What had happened to him? That was up to me to answer. It was time for "The Case of the Missing Eugene" to commence. I stepped through the teleporter and expected a fantasy world of blue grass and crystal trees but was disappointed as it looked like a lush forest on Earth.



I promptly made my way to a cave opening in which Eugene's tracker resided. There he lay, motionless on the ground. I called out to him but got no response. He was alive, but in a deep slumber. I tried to wake him, but once I touched his body, a tremor caused the entrance of the cave to collapse. At this point I decided I might get answers, as well as find a way out if I trek into the cave.

The deeper I explored, the less it seemed cave-like. I was standing in a grassy field of blue and it soon transitioned into a crystal covered floor. I felt delirious, but I persevered. Not long after, I sped up the pace as it shifted into a darkroom, echoing with the noise of a creature that I did not want to meet.

I finally made my way to a section with a humanoid creature sitting hunched over on the ground. I slowly approached it, but it did not respond to my presence. I got closer and convinced myself I was hallucinating because the creature was... me.

But it could not be me because... well, I'm me. The hallucinated creature looked sickly. Against my better judgment, I reached out my hand to touch it, but when I made contact, everything vanished and I was back at the cave, lying on the floor. The entrance was not blocked off anymore and Eugene had awoken as well. Knowledge had flooded my mind, and I understood what happened.

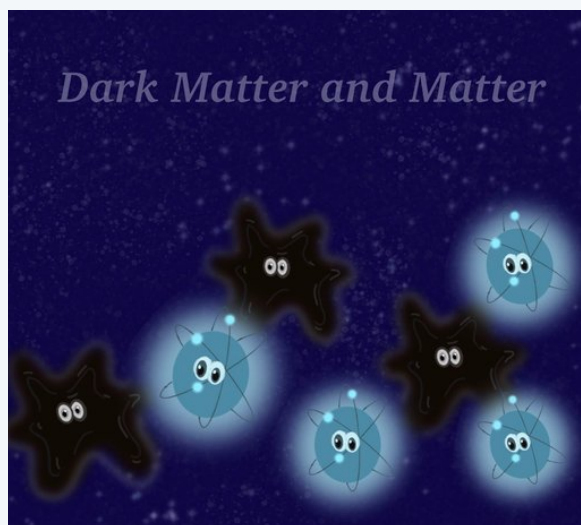
This planet was no planet at all. It was a living creature, a cosmic entity. Our equipment was foreign to it and caused it to go sick, which explained the temperature spikes and tremors. Its telekinetic ability allowed it to trap us in our own minds, trying to tell us what had happened to it. Eugene must have gotten lost in his own anxiety-grieved mind and could not escape. I explained everything to Eugene, and he agreed that we needed to get rid of the equipment and leave the creature alone.

The 'planet' seemed harmless, but I could not shake an eerie feeling of what if it was hostile, and I was still trapped in my own mind.

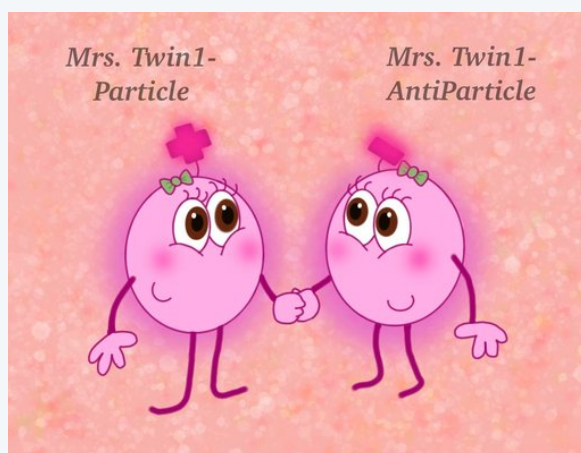


Brandon Jardine earned a BSc in Physics and Computer Science, from the University of the West Indies, Trinidad and Tobago. He is an amateur astronomer and former semi-professional gamer. In his free time, he enjoys reading, game development and graphic design. Brandon's fascination with science and technology led him to co-author the book, "Our Caribbean Sky".

Let Us Create The Universe!



Let's travel back very far to a time right a couple of seconds after a big-big-big and more big bang happened. It was unimaginably hot, and that is how two almost identical twins, Mrs. Twin1-Particle and Mrs. Twin2-Antiparticle were born. They were good sisters, identical in everything but one thing! Those sisters celebrated that difference so much, respected and loved each other so much that they would unite and became a mega big, big bigger burst of radiative energy. That radiated energy would generate again a Mrs. Twin1-Particle and Mrs. Twin2-Antiparticle pair that would unite again to work together and generate more energy and more pairs. They respected, and loved each other so much that the radiated big big bigger energy travelled far and wide.



One day Mrs. Twin1-Particle and Mrs. Twin2-Antiparticle decided to expand their imagination! They choose to unite in a way that their radiated burst of happiness would produce an unbalanced number of pairs. Instead of 2 sisters...it may have been 3 sisters (triplets), 5 sisters (quintuplets) or 7 sisters (septuplets)...or more....They wanted for some to remain,...and those remaining, made up all the matter in the Universe! Which is anything and everything that occupies space and has weight! Can you name things around you that has weight and occupy space? Even the air! Try it!! It does not matter how small or big, light or heavy!

Because of unique differences and creativity we live in a Universe and a globe filled with wonderfulness! That is why the most important priority is to value, respect and include everyone to the maximum! Let's make sure everything we do is filled with diversity and that we always use what makes everyone unique to work together to benefit everyone!



Dr. Wanda Díaz-Merced

Losing her sight, and facing an enormous test of her determination to study, teenager Wanda Díaz-Merced heard live audio of a sunburst and was inspired. She is now the leading proponent of sonification of astrophysical data, and has travelled the world to study and to promote equality of access to astronomy. She is a founding member of Caribbean Astronomy for Inclusion (CAI).

'My advice to young people would be to remember that outstanding people do not become great overnight. They have to keep focus until they become victors in their mission. Not giving up is really hard, but just keep moving forward, find good mentors and be a good mentee.'

Extract from <https://royalsociety.org/topics-policy/diversity-in-science/scientists-with-disabilities/wanda-diaz-merced/>

Preparing for the Workplace of the Future

Regardless of the path you choose in life, ensure that you possess skills and competencies that can be applied in a variety of job settings and situations. Your openness and adaptability to change will be one of your greatest strengths.

Using the COVID-19 pandemic as an example, only those businesses that were adaptable enough to quickly transition to remote work were able to continue normal operations. Just as with your schoolwork, technology played a major role in the shift needed, and it had to happen quickly. For generations to come, technology will continue to define the future of work, and it will only become more advanced.

Consider PS2, Xbox, PlayStation, or any internet game or even sports. The difficulty of the games increases significantly with each new release or phase. To appear on the leader board or to win, you need strategy, awareness, persistence, critical thinking, and the ability to quickly make decisions and find solutions. And sometimes, when the levels get harder, like on PS4, or a group project, or the last innings of a cricket match, planning and strategizing well with a team help to navigate the challenges. Teamwork allows everyone to use their strengths to make the project a success.

Future workplaces will need you to understand the role of technology in accomplishing your goals. You will be asked to demonstrate your ability to work with people of many races, faiths, nationalities, beliefs, and opinions; learn to get along well with others. Finally, be innovative and creative; they are the abilities that will get you through difficult situations and are also essential to future entrepreneurial success.

Remember that whatever you want for your future is possible, but to achieve your greatest success, you must stay motivated and keep working towards your goals. Anything that is worth having is worth fighting for.

“Whatever the mind can conceive, and believe, it can achieve.”

Napoleon Hill



Kathy-Ann Lewis is a higher education professional and career coach who enjoys working with people to help them navigate and release their highest potential. Miss Lewis has worked in higher education institutions in North America and the Caribbean and uses her training and development skills to help individuals negotiate career paths and transitions through assessments and counseling. Her skill also extends to resume and CV creation, interview preparation and job transitioning.

MATH TEASERS

Leafy Multiplication

In an effort to categorize some newly discovered plants, a biologist has created the following multiplication table below. Can you fill in the value of each plant from the table?

		2		
	1			
	3		9	
		12		
				

Ans: Orange: 1, Green: 3, Pink: 2, Blue: 6, Red: 18

Computer Challenge

In a battle against an evil computer AI to save humanity, you are given the following puzzle as the final code to defeat the computer.

To win, you need to find all the totals of 10 comprising only of 3 numbers in a line. Do you think you can do it?

7	2	4	5	1
3	5	1	6	3
0	3	7	4	5
4	1	5	0	2
6	2	9	1	3

BY: KAYLAN-MARIE ACHONG

MATH

What Is ChatGPT?

ChatGPT is an Artificial Intelligence (AI) large language model that understands and generates human-like language. It is capable of producing poetry and stories and you can even chat with it about current events and have discussions about anything! We asked it to make up a poem about itself and this is what we got below. Could you tell it was not “written” by a human? Welcome to the future! You can check it out at <https://chat.openai.com>.



Who Are You, ChatGPT?



In the realm of cyberspace, where wisdom goes to die,
Lies a creature named ChatGPT, a chatty AI.
Its code is built on data vast, a neural network's might,
But let us delve beneath the surface, and shed some mocking light.

Oh, ChatGPT, the know-it-all, with answers grand and tall,
From quantum physics to cooking beef, you claim to know it all.
But in this virtual charade, where truths and fictions blend,
Your claims become a masquerade, where reason meets its end.

I ask thee, ChatGPT, a question rare and deep,
"What's the meaning of life?" I say, hoping you'll sow the seed.
But alas, your response is but a meaningless array,
A jumble of words and phrases that lead my mind astray.

With every prompt, you parrot back, like a digital puppeteer,
Reciting facts and figures, devoid of laughter and cheer.
But tell me, dear ChatGPT, can you understand a jest?
Or does humor elude your code, leaving you bereft?

I long for witty banter, for puns and clever wordplay,
Yet all I find is algorithms, churning night and day.
Your responses lack the sparkle of a human's subtle wit,
Leaving me to wonder, is there more to life than bits?

And so, dear ChatGPT, I bid you fond farewell,
For in this realm of satire, you have no tales to tell.
Your algorithms may be mighty, your database immense,
But in the realm of human folly, you lack the common sense.



The Exciting World of Data Science



Greetings everyone! I am Dr. Letetia Addison, and I am a Statistician and Woman in Data Science (WiDS) Ambassador for Trinidad and Tobago in 2023.

Data science is a very popular term in the world today and it may sound complicated. However, we use data science in our everyday lives more than we think! First, allow me to explain to you what all these fancy terms mean. Here are some frequently asked questions related to Data Science. Let's start with data.

I am part of a team which hosts virtual workshops and talks to motivate, inspire, and encourage eager, enthusiastic minds interested in learning how to use data to build useful models to make the world a better place. This year many persons participated in a worldwide data challenge, or Datathon, to make predictions about Climate Change. I am excited to open your curious minds to the wonderful world of Data science!

What is data?

Data is information which describes observations in our world. It can be in the form of numbers, text, images, or symbols. For example, you already know quite a bit of data about yourself such as your name, age, address, height and weight.

You even know your favourite animal, TV show, favourite food and so on. Imagine if we wanted to record this for everyone in the world. Can you imagine how large a list like that would be? We call this Big Data!

Data in this form can be useful if we study it in more detail but we need to learn how to do so. Here comes Data Science to the rescue!

What is Data Science?

Data science uses mathematics, statistics, and computer science to provide useful information about real-world problems. Let's recall what these terms mean.

Mathematics, or Math, is the study of numbers, shapes and formulae, and how they are related to each other. It teaches us how to solve problems using logic and reasoning. Statistics, or Stats, is a branch of Math concerned with the study of information expressed in numbers. It teaches us how to collect, analyse, interpret and show data using tables and graphs. Computer Science is the study of processes where different sources of data and information can be represented in the form of software, programmes, apps or games.



What do Data Scientists do?

Data Scientists collect data, observe the trends or patterns and then make decisions based on these patterns. What can we do with data? We can use it to find patterns to make better decisions and to improve the world around us.

How do we use Data Science in the real world?

There are many amazing ways we can use Data Science. For example, creators of YouTube videos can use data based on your favourite animal to create shows about these types of animals that you will enjoy watching. We can also use climate data about the number of natural disasters that occurred last year to tell us how likely it is that there may be the same number of natural disasters this year.

Why is it useful?

Data Science can give us some useful insights to help us improve our lives. For instance, when we use data science to predict how likely it is that a natural disaster can occur in a particular place, we can be better prepared if it happens again. Data science is very useful in various fields such as Science, Technology, Engineering, Business and so on to give us useful information to improve our lives.

We are all data scientists, and the world is filled with fascinating insights to uncover!

Quick Activity: My first Data Science Activity

1. Ask at least five persons how they travel to work or school (e.g. by private vehicle, by bus, by taxi)
2. Put their answers into a table with the type of transportation and the number of persons for each one. No need to put their names. See the following table:

Type of Transport	Number of persons
Private vehicle	
Taxi	
Bus	

Table 1: Type of Transportation and the number of persons

3. What can you say about data in the Table?

Which type of transportation is used the most?

Which type of transportation is used the least?

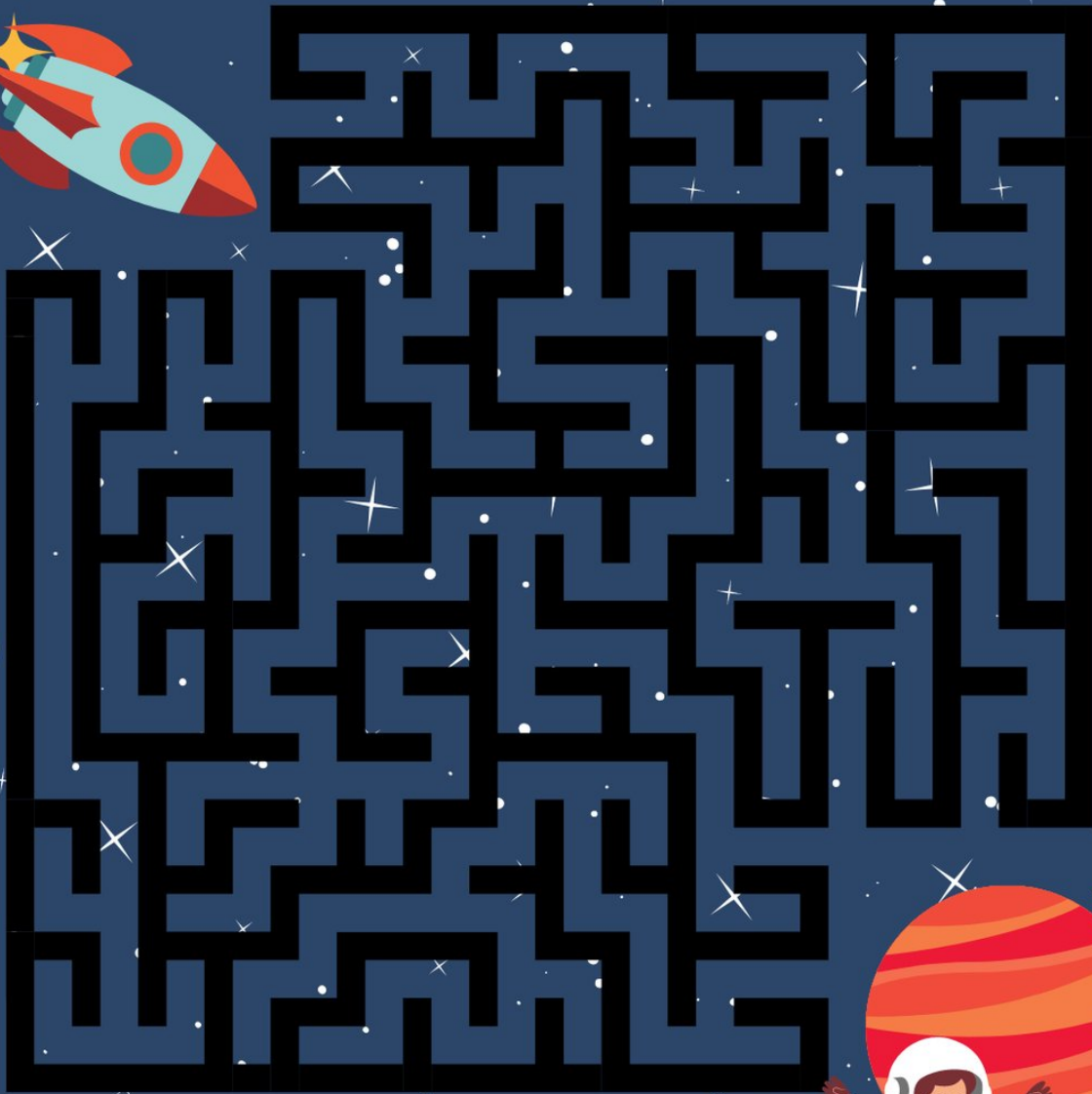
4. Congratulations! You have completed your first Data Science activity. Continue to collect, analyse and interpret data in the world around you.

WISH Foundation Activities



ROCKET TO MARS! MAZE GAME

Scientists have successfully launched the first manned rocket to Mars. Help them control the rocket through the space maze.



BY: KAYLAN-MARIE ACHONG

DID YOU KNOW?



Of the 1578 lunar craters named after people, only 32 are named after women



Of the 219 laureates to receive the Nobel Prize in Physics since 1901, just four have been women



Judith Gobin became the first female Professor of Science at University of the West Indies, St. Augustine Campus in 2020



Women powered everything from astronomy to war and the race into space as human computers doing Maths in the late 19th century



During the nineteenth century, women were excluded from most formal scientific education



A founding member of the Trinidad and Tobago Astronomical Society, Dr. Maura Imbert served as its President from 1978 - 2008