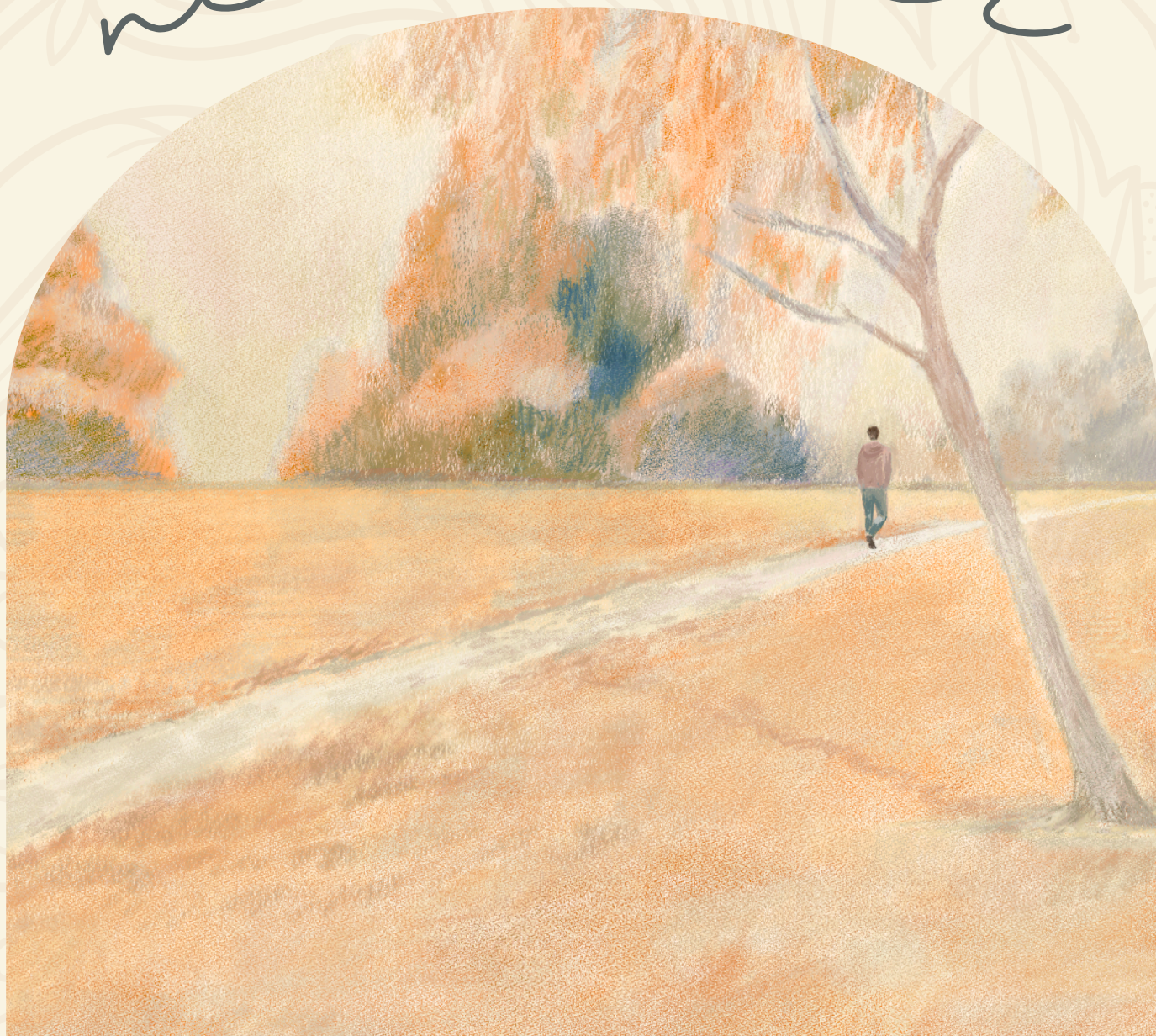


AUTUMN

newsletter



STEM & ROSE | NOV 2025

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A MONTH IN STEM

november

			WORLD TSUNAMI DAY		MARIE CURIE'S BIRTHDAY	NATIONAL STEM DAY
2	3	4	5	6	7	8
CARL SAGAN'S BIRTHDAY	WORLD SCIENCE FOR PEACE DAY					
9	10	11	12	13	14	15
SOCIETY FOR NEUROSCIENCE ANNUAL MEETING				BENOIT MENDOL- BROT'S BIRTHDAY		
16	17	18	19	20	21	22
FIBBON- NACI DAY			NORBERT WEINER'S BIRTHDAY			
23	24	25	26	27	28	29
BLACK HOLE DAY						
30						 SATURDAYGIFT

stem spotlight



HATTIE ALEXANDER

BORN: APRIL 5TH, 1901

DIED: JUNE 24TH, 1968

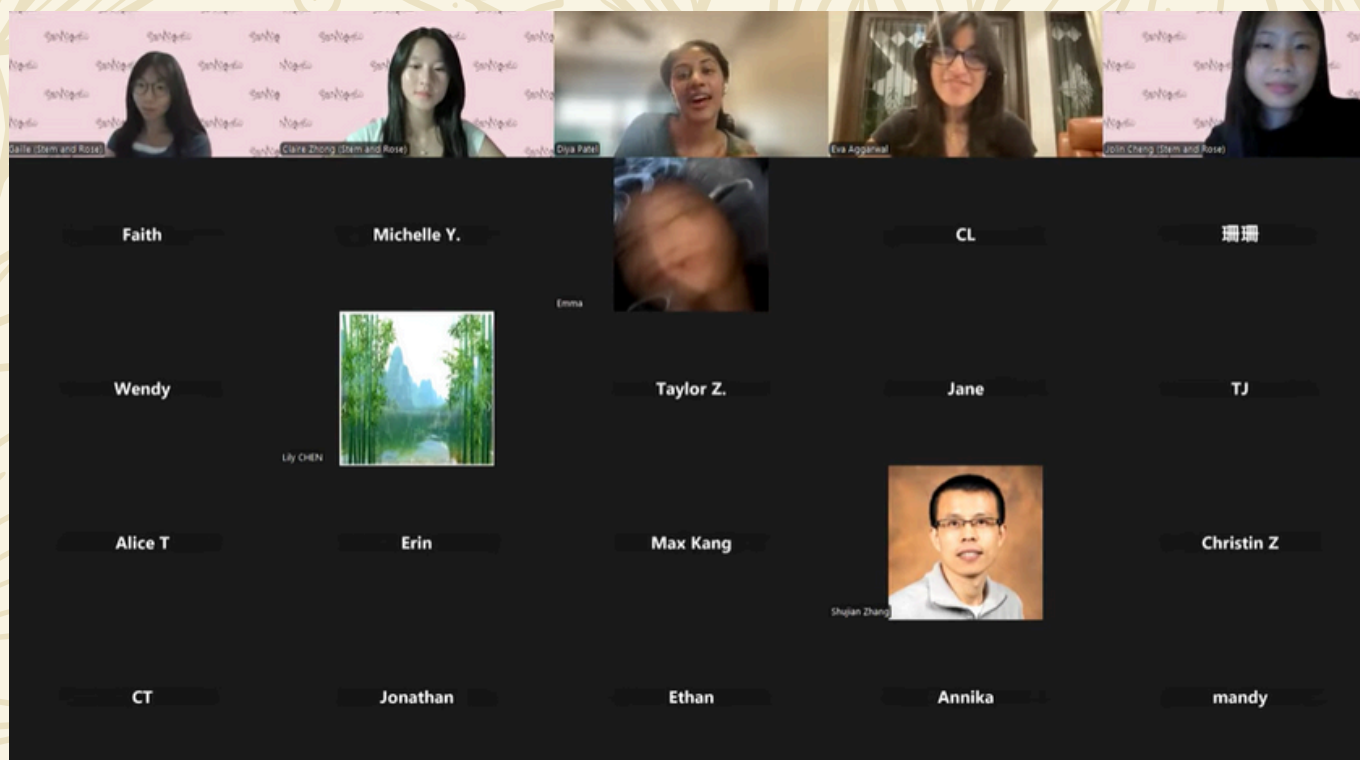
CAREER: PEDIATRICIAN AND MICROBIOLOGIST

SIGNIFICANCE: AFTER CONDUCTING EXTENSIVE REASEARCH ON INFLUENZAL MENINGITIS, SHE WAS ABLE TO DEVELOP A COMPLETE CURE FOR THE DISEASE. THIS HELPED DECREASE THE MORTALITY RATE OF INFLUENZAL MENINGITIS IN INFANTS BY 80%! SHE RECIEVED MULTIPLE AWARDS FOR HER LIFE-CHANGING WORK, INCLUDING THE ELIZABETH BLACKWELL AWARD AND E. MEAD JOHNSON AWARD.

FIRESIDE CHAT

recap

CLICK ON THIS [YOUTUBE LINK](#) TO SEE THE VIDEO RECORDING, AND THIS [GOOGLE SLIDES LINK](#) TO SEE THE PRESENTATION SLIDE DECK!



JOINED BY TWO UPPERCLASSMEN AT **DUKE UNIVERSITY**, WE DISCUSSED **VARIOUS OPPORTUNITIES FOR YOUTH INTERESTED IN STEM**, SOME FOCUSED DIRECTLY ON EMPOWERING YOUNG WOMEN IN STEM. AFTERWARD, OUR TWO GUESTS ANSWERED QUESTIONS ABOUT THEIR STEM JOURNEY, HOW THEY CHOSE THEIR MAJOR AT DUKE, AND **ADVICE THEY WOULD GIVE TO YOUNGER STUDENTS INTERESTED IN PURSUING STEM.**

UPCOMING

opportunities



ROCKETRY CHALLENGE

DEADLINE: DECEMBER 6TH

WHO CAN ENTER: TEAMS OF 3-10 STUDENTS IN GRADES 6-12

BUILD A MODEL ROCKET THAT CARRIES ONE LARGE HEN EGG TO AN ALTITUDE OF 750 FEET, STAYS AIRBORNE FOR BETWEEN 36 AND 39 SECONDS, AND RETURNS THE ROCKET TO THE GROUND SAFELY WITH THE EGG UNBROKEN.

DIAMOND CHALLENGE

DEADLINE: JANUARY 15TH
WHO CAN ENTER: TEAMS OF 2-4 STUDENTS AGED 14-18

TURN YOUR PASSIONS INTO BUSINESS OR SOCIAL VENTURE CONCEPTS! PITCH YOUR INNOVATIVE IDEA TO THE JUDGES TO WIN PRIZES AND GAIN VALUABLE FEEDBACK.



EXPLORAVISION

DEADLINE: FEBRUARY 3RD
WHO CAN ENTER: TEAMS OF 2-4 STUDENTS IN GRADES K-12

COMBINE YOUR IMAGINATIONS WITH THE TOOLS OF SCIENCE TO CREATE AND EXPLORE A VISION OF A FUTURE TECHNOLOGY! SUBMIT AN ABSTRACT AND DESCRIPTION TO WIN PRIZES!

ACCESSIBLE

summer programs



WTP @ MIT

APPLY BY: DECEMBER 15

COST: ADJUSTED BASED ON FAMILY INCOME, FREE FOR BELOW 120K

WHO CAN ATTEND: RISING SENIORS (FEMALES ONLY)

WTP (WOMEN'S TECHNOLOGY PROGRAM) IS DESIGNED FOR STUDENTS WHO ARE EXCITED ABOUT LEARNING, HAVE DEMONSTRATED THEIR ABILITY TO EXCEL AT MATH AND SCIENCE IN THEIR HIGH SCHOOL CLASSES, AND WHO HAVE NO PRIOR BACKGROUND (OR VERY LITTLE) IN ENGINEERING WITH FEW OPPORTUNITIES TO EXPLORE THESE FIELDS.



MITES @ MIT

APPLY BY: FEBRUARY 1

COST: FREE

WHO CAN ATTEND: RISING SENIORS

THE MITES SUMMER PROGRAM IS DESIGNED TO IMMERSE UNDERREPRESENTED STUDENTS FROM ACROSS THE COUNTRY IN LIFE AT MIT. STUDENTS WILL TAKE FIVE RIGOROUS, REWARDING MATH, SCIENCE, AND HUMANITIES COURSES TO DISCOVER ALL THEY CAN ACHIEVE. YOU'LL STUDENTS WILL ALSO PARTICIPATE IN LAB TOURS AND SOCIAL EVENTS, AS WELL AS BENEFIT FROM COLLEGE ADMISSIONS COUNSELING.



NASA GLENN

APPLY BY: MAR 9

COST: FREE

WHO CAN ATTEND: RISING 11TH AND 12TH GRADERS

THE NASA GLENN HIGH SCHOOL ENGINEERING INSTITUTE INTRODUCES STUDENTS TO ENGINEERING AND TECHNOLOGY CONCEPTS USED BY STEM PROFESSIONALS AT NASA. STUDENTS WILL UTILIZE THE ENGINEERING DESIGN PROCESS TO DESIGN AND TEST PROTOTYPES RELEVANT TO NASA GLENN AREAS OF EXPERTISE IN ACOUSTIC DAMPING, POWER MANAGEMENT AND DISTRIBUTION, AND SIMULATED LUNAR OPERATIONS.

“SNAKE MILKER”



ARE YOU A FEARLESS ANIMAL LOVER? IF SO, YOU MIGHT WANT TO BECOME A SNAKE MILKER! THEY ARE HIGHLY SPECIALIZED HERPETOLOGISTS WHO COLLECT VENOM FROM SNAKES TO DEVELOP TREATMENTS AND CURES FOR VARIOUS DISEASES.

“FLAVOR CHEMIST”



DO YOU LOVE ARTIFICIAL FLAVORING AND SCENTS? WELL, AS A FLAVOR CHEMIST, YOU CAN DEVELOP THEM YOURSELF! BY COMBINING KNOWLEDGE OF FOOD SCIENCE, CHEMISTRY, AND BIOCHEMISTRY, FLAVOR CHEMISTS ARE ABLE TO TELL WHAT COMPOUNDS MAKE UP FLAVORS WITH JUST A TASTE!

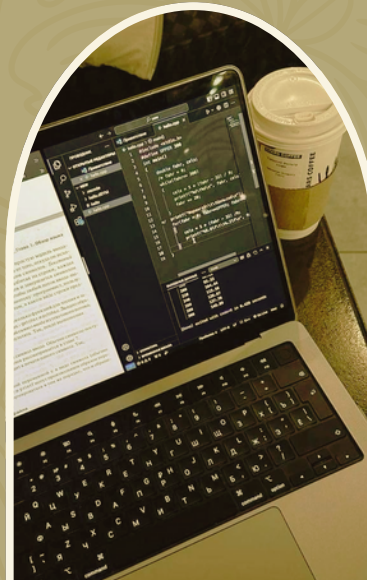
THE MOST UNIQUE *stem careers*

“ANIMAL BEHAVIORISTS”

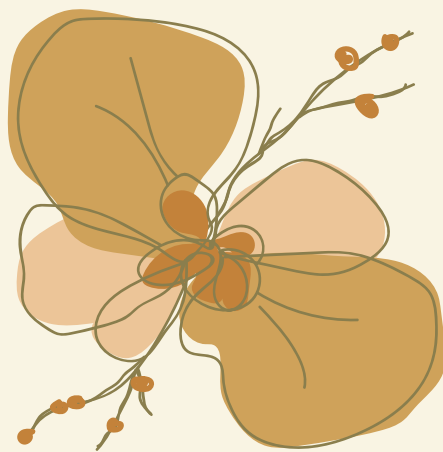


WANT TO LEARN ABOUT PSYCHOLOGY WITHOUT LEARNING ABOUT PEOPLE? ANIMAL BEHAVIORISTS STUDY AND ANALYZE WHAT ANIMALS DO TO TRY TO UNDERSTAND HOW THEY THINK AND HOW THEY FEEL.

“ETHICAL HACKER”



WANT TO PRETEND YOU'RE A SUPERVILLAIN IN A SPY MOVIE WHILE HELPING OTHERS? WELL, YOU CAN HACK PEOPLE'S WEBSITES WHILE GETTING PAID THROUGH ETHICAL HACKING! BY UTILIZING YOUR HACKING SKILLS, YOU CAN IMPROVE THE SECURITY OF IMPORTANT DATA BY SIMULATING ATTACKS.



THANK YOU!

HAVE
QUESTIONS?
CONTACT
US!



STEMROSEUS@GMAIL.COM



STEM-ROSE.ORG



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