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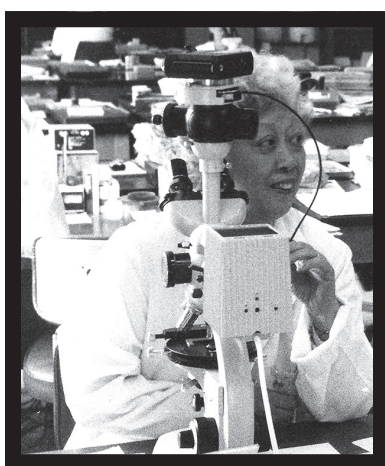


Archives of Hamilton Health and Sciences and Faculty of Health Sciences, McMaster University, with adaptation by ninesixteen.ca

# IRENE AYAKO UCHIDA

## Seeing an Invisible Story

Archives of Hamilton Health Sciences  
and Faculty of Health Sciences, McMaster University



Dr. Uchida introduced cytogenetics, the study of chromosomes and heredity, to Canada. In the 1960s, she alerted medical science to a possible connection between radiation and chromosomal abnormalities.

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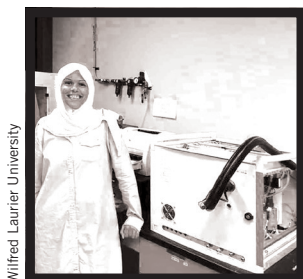
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Wilfred Laurier University with adaptation by ninesixteen.ca

# HIND AL-ABADLEH

## Cracking the Chemistry of Climate Change



Wilfred Laurier University

Professor Al-Abadleh's air pollution expertise won her the Fulbright Canadian Research Chair in Climate Change. She explores fundamental questions about the chemistry of air pollution, especially ground-level ozone and inhalable microscopic particles.

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The Neuro with adaptation by ninesixteen.ca

# BRENDA MILNER

## Memorable Accomplishments



Owen Egan/McGill University

Brenda Milner studied the function and structure of the human brain and helped establish how the hemispheres of the brain interact. Milner's work gave us a greater understanding of cognitive processes such as learning and memory. She has played a major role in shaping modern neuropsychology.

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Pam Lau with adaptation by ninesixteen.ca

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# MELISSA SARIFFODEEN

## Critical Coding Skills



Stefano Barbera

Sariffodeen is co-founder and CEO of Canada Learning Code. Her organization teaches digital literacy to women and girls, so they can rock the fast-paced world of technology.

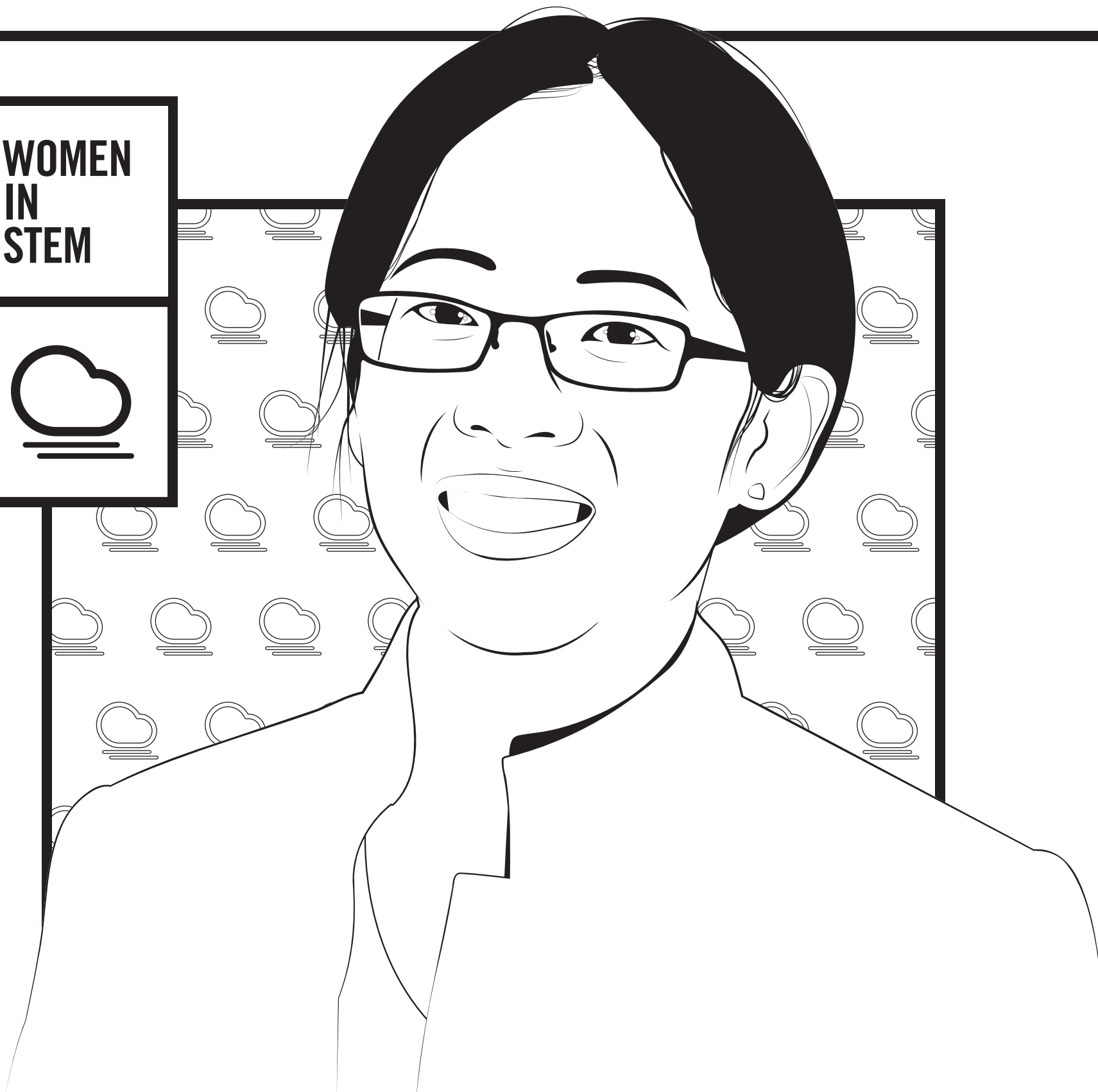
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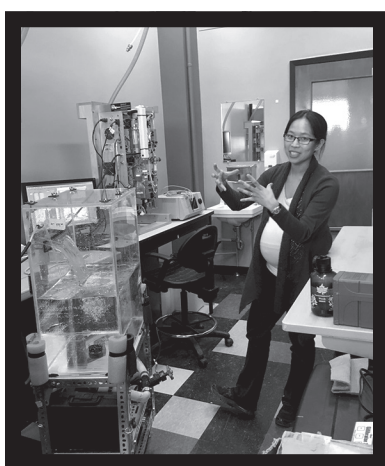


Dalhousie University with adaptation by ninesixteen.ca

# RACHEL CHANG

## Scientist in the Mist

Faculty of Science, Dalhousie University



Dr. Chang researches how types of particles in the atmosphere change fog properties. Her aerosol studies enrich our understanding of the forces that affect climate systems in the Arctic.

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Wayne Leidenfrost and The Province with adaptation by ninesixteen.ca

# ANN MAKOSINSKI

## A Shining Light

Jeremy Johnson-Silvers and The Ubyesey



When Makosinski imagined helping developing countries with energy needs, a bright idea was born. She invented the revolutionary Hollow Flashlight, powered by the heat from one's hand.

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LYNN CONWAY

Computer Revolutionary

Lynn Conway



Conway is a famed pioneer in micro-electronics chip design. Known as Very-Large-Scale Integration, her work in the 1970s formed the foundation of modern digital technology systems.

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# CHARITY WANJIKU

## Empowering with Power

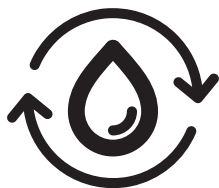


Wanjiku's aim is to alleviate energy poverty in Africa. Her company Strauss Energy Ltd., designs and develops innovative solar panels that also act as building materials.

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# HELEN IRENE BATTLE

## Hook, Line and Thinker



The first woman to earn a PhD in Marine Biology in Canada, Dr. Battle was also the first zoologist to use laboratory research in marine biology. She pioneered the use of fish eggs to study cancer-causing substances in cell development.

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NADINE CARON

Barrier-breaking Surgeon

University of Northern British Columbia



Dr. Caron is Canada's first female Indigenous General Surgeon. Through her advocacy work, she strives to improve access to quality healthcare in northern First Nations communities.

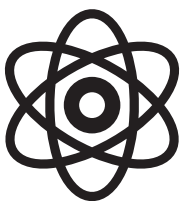
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Yale University with adaptation by ninesixteen.ca

# REINA MARUYAMA

## What's the Matter with the Universe?

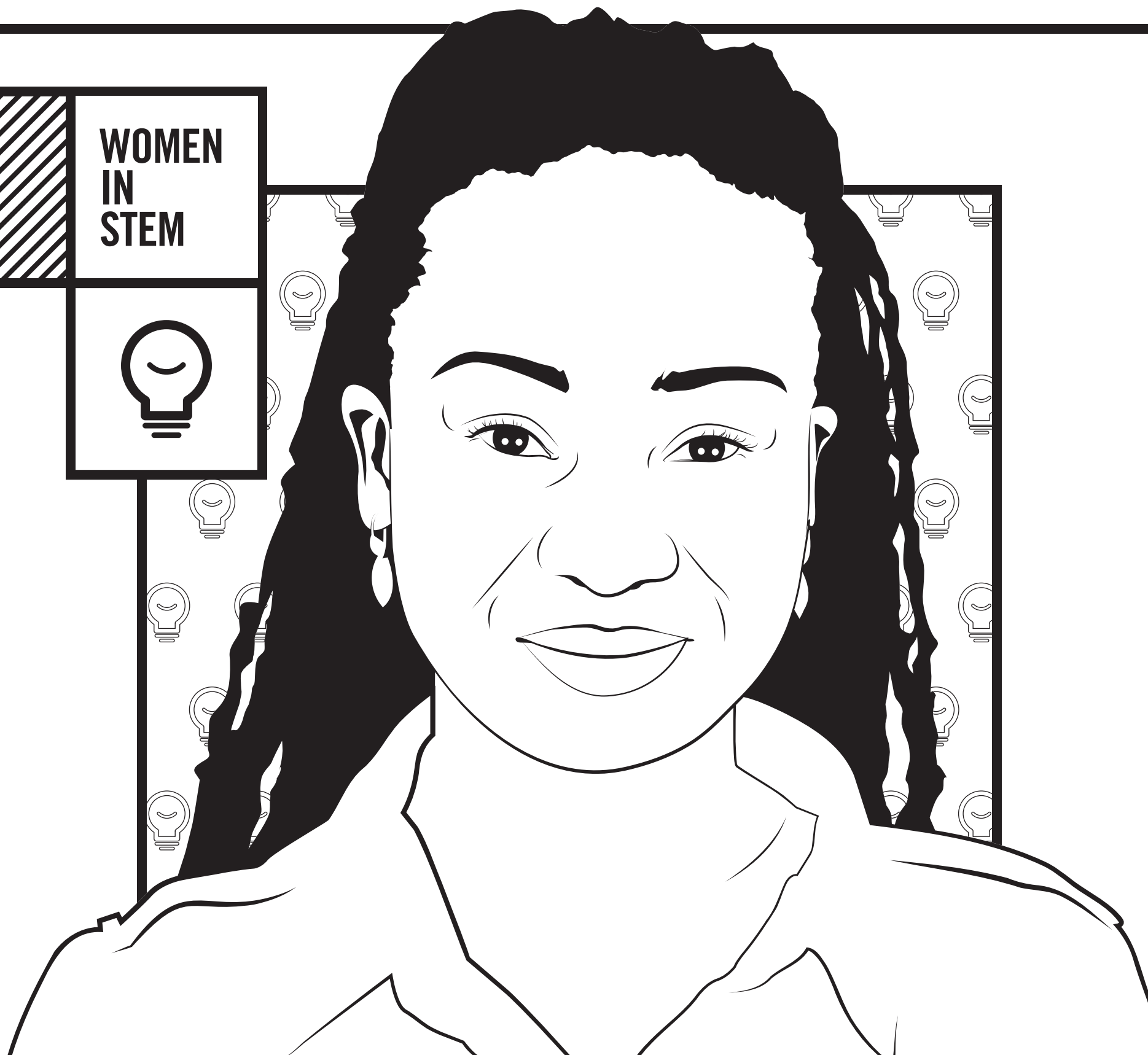
Yale University



What is the Universe made of? Why is there more matter than anti-matter? Yale Professor Maruyama carries out cutting-edge experiments on neutrinos and dark matter to find answers to these questions.

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**EUGENIA DUODU**

**Inspired, Elevated and Empowered**

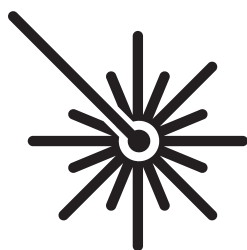
VoSNL



Dr. Eugenia Duodu earned a PhD in medicinal chemistry from the University of Toronto. Today, she is the CEO of Visions of Science and Network for Learning, which offers STEM programs for low-income and marginalized youth.

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University of Waterloo with adaptation by ninesixteen.ca  
The Nobel Prize Medal is a registered trademark of the Nobel Foundation

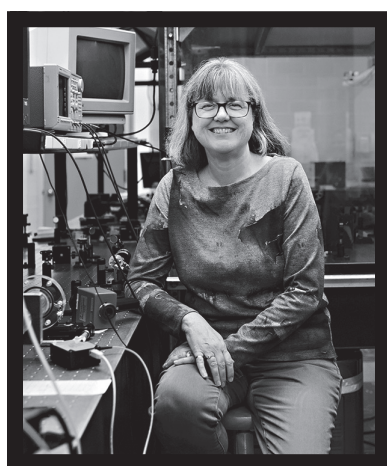


# DONNA STRICKLAND



## An Eye for Lasers

University of Waterloo



Donna Strickland's work with lasers, specifically her invention of chirped pulse amplification, paved the way toward the shortest and most intense laser pulses. The work shows how high-intensity light interacts with matter, and the technique is used in the machining of glass and some eye surgeries.

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Max Kopanygin with adaptation by ninesixteen.ca

# MAAYAN ZIV

## An App to Map Accessibility

Kevin Bryan



Maayan founded AccessNow, a crowdsourced app mobilizing communities by mapping the accessibility status of thousands of locations in over 30 countries. Activist, photographer and entrepreneur, she continues to challenge norms and work within her community to increase awareness of disability issues and improve accessibility.

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# ANNETTE LEE

## Stars of Knowledge

Courtesy of Washington, the magazine  
for Washington University in St. Louis



An astrophysicist, professor and professional visual artist, Annette Lee is also the designer of Native Skywatchers (NSW), an organization that seeks to revitalize Indigenous star knowledge. NSW seeks to communicate the knowledge that Indigenous peoples lived sustainably through a participatory relationship with nature.

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Lihadh Al-Gazali with adaptation by ninesixteen.ca

# LIHADH AL-GAZALI

## A Genetic Genius

Lihadh Al-Gazali



Lihadh Al-Gazali is a professor of clinical genetics and paediatrics at the United Arab Emirates University. Known for her pioneering work on genetic disorders specific to Arab countries, she even has one named after her, Al-Gazali syndrome.

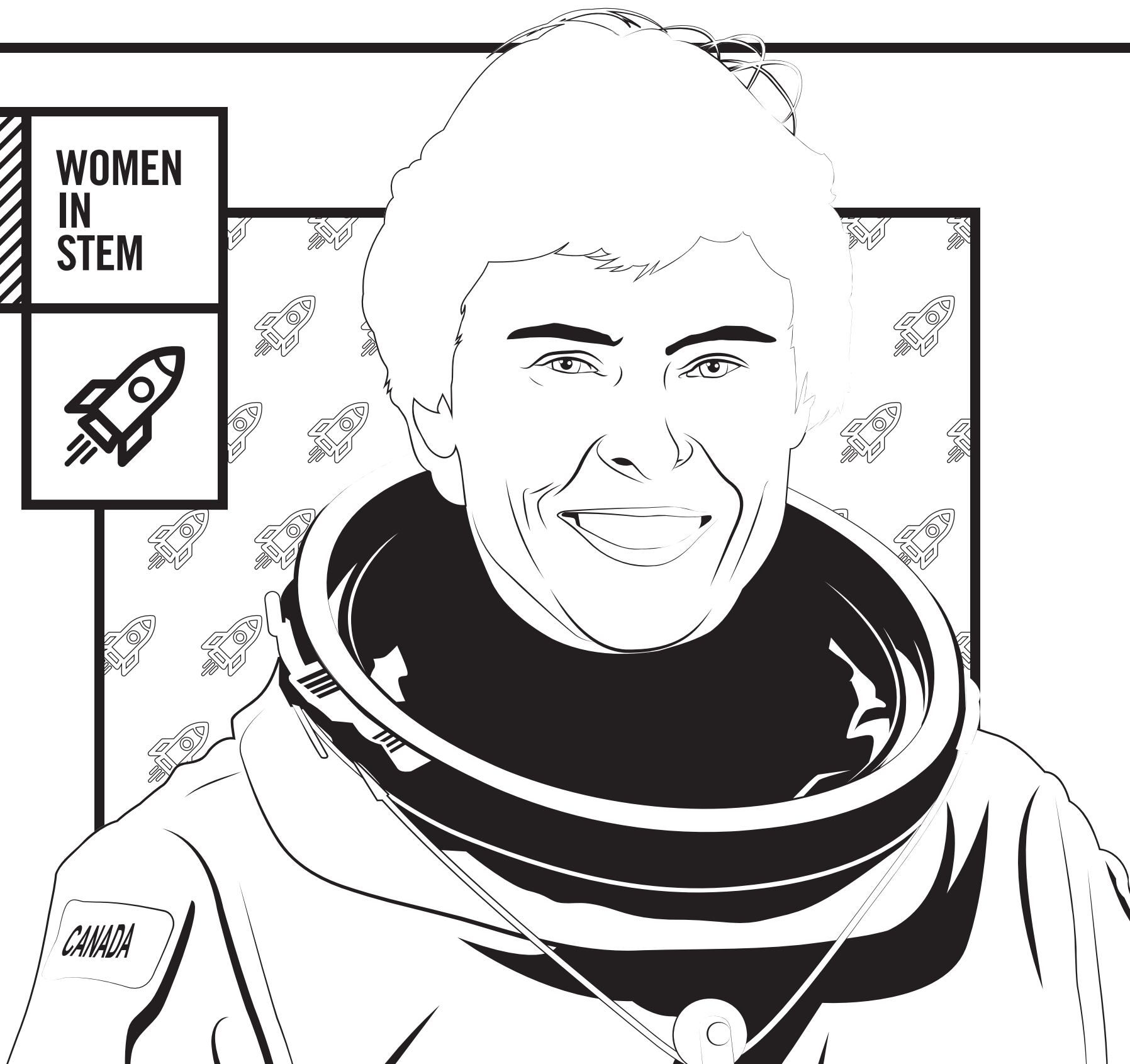
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Public Domain (NASA), adaptation by ninesixteen.ca



# ROBERTA BONDAR

## Canada's First Female Astronaut

Public Domain (NASA)



Launched into orbit, and into the record books, Dr. Bondar is Canada's first female astronaut and the first neurologist to travel to space. She spent over ten years at NASA and studied the impacts between space travel and human physiology.

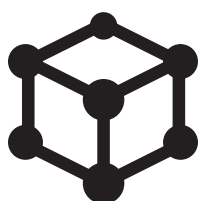
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# SHOHINI GHOSE

## Making the Connection



Dr. Ghose is a renowned expert in quantum physics and fierce advocate for women in STEM. She is committed to supporting young women in STEM by addressing systemics barriers and biases to build an inclusive science community.

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Rosalie Windward, adaptation by ninesixteen.ca

# TEMPLE GRANDIN

## Empathy for Animals

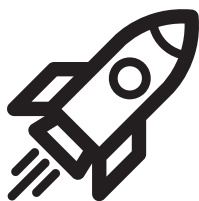
Rosalie Windward



Temple Grandin used the insights gained from living with autism to become a world-renowned expert in the humane treatment of livestock. An advocate for those on the autism spectrum, she was named one of TIME's 100 people who most affected the world in 2010.

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# MAE CAROL JEMISON

## The Sky's the Limit

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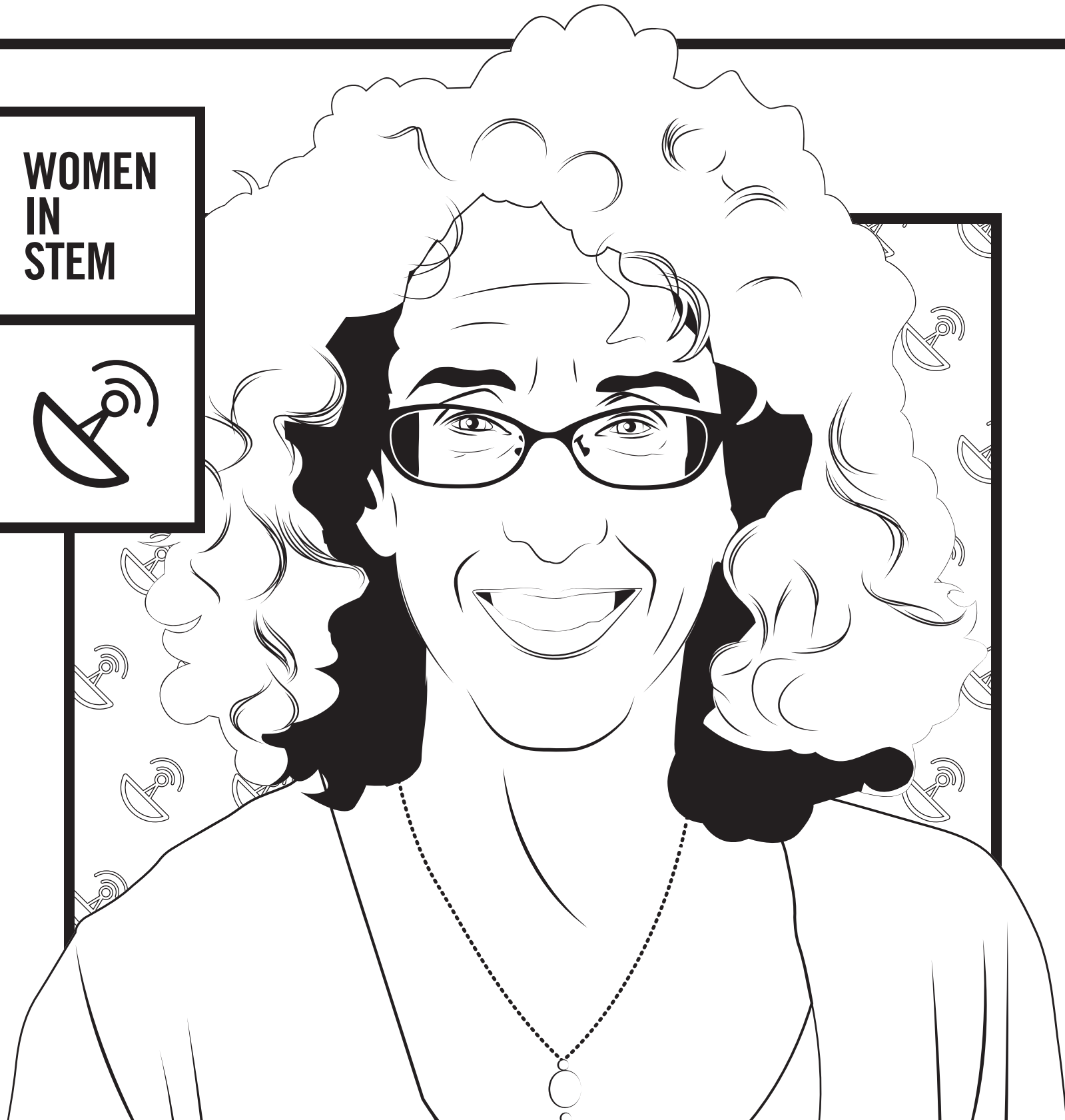


Not only is she an engineer, entrepreneur, medical officer and public speaker, Mae Carol Jemison is also the first African-American woman to travel to space. She was in orbit for 190 hours aboard the Space Shuttle Endeavor in 1992.

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NSERC-CRSNG, adaptation by ninesixteen.ca

# VICTORIA KASPI

## Star Discoverer



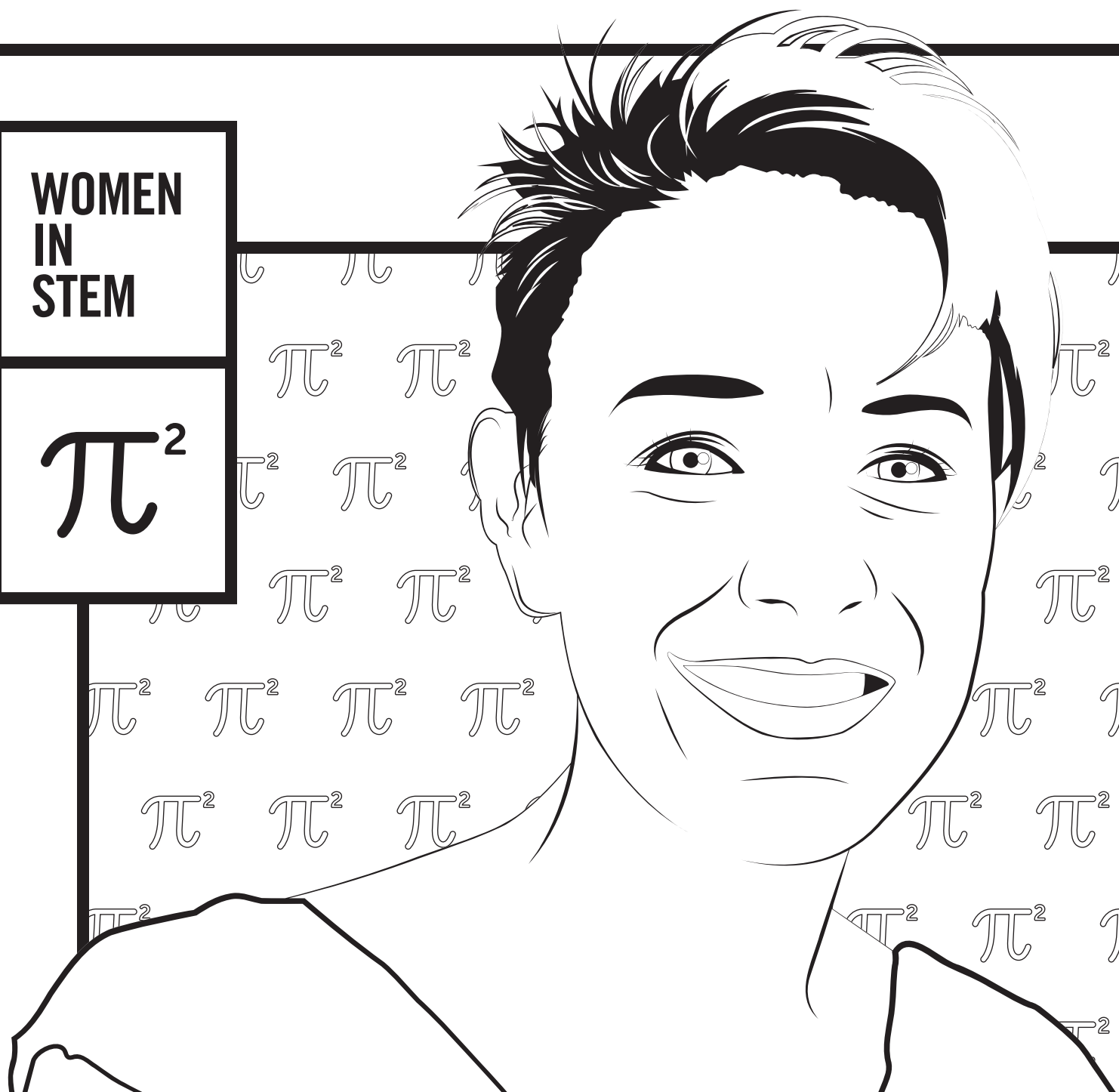
NSERC-CRSNG

For the many discoveries she has made about neutron stars, Victoria Kaspi was awarded Canada's highest scientific honour, the Gerhard Herzberg Canada Gold Medal, becoming the first woman — and the second-youngest person — to do so.

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$\pi^2$



Koby Michaels, adaptation by ninesixteen.ca

# STEPHANIE VAN WILLIGENBURG

## Solving the Problem



Algebraic Combinatorixx, May 2011, at the Banff International Research Station

Dr. Stephanie van Willigenburg is a prize-winning Canadian mathematics professor known for solving unsolvable math problems in algebraic combinatorics. She is the co-founder of Algebraic Combinatorixx — a workshop-based initiative dedicated to involving more women in the world of math.

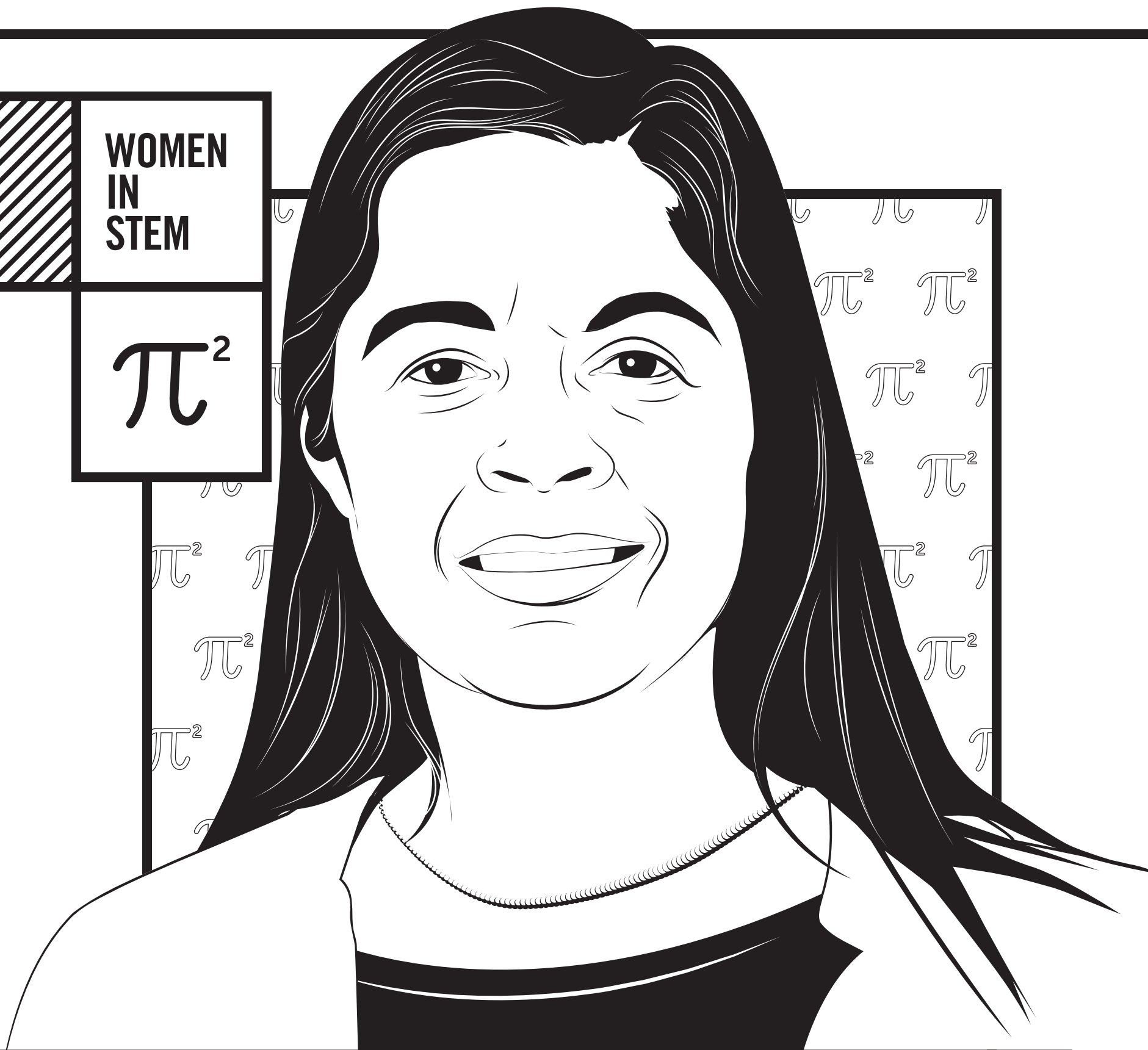
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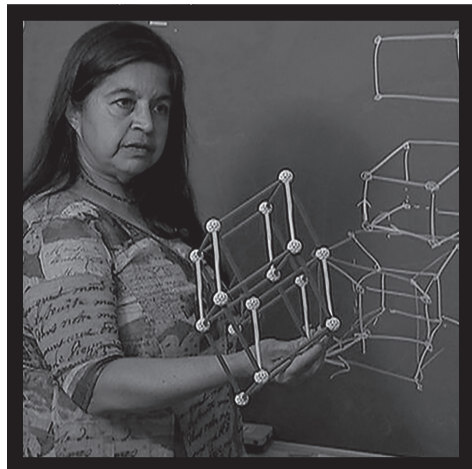
Creative Commons — Ted Sealey, adaptation by ninesixteen.ca



# NALINI JOSHI

## No Problem is Too Big

SBS



The first female professor of mathematics at the University of Sydney, Joshi's research has been honoured by many awards in Australia and abroad. She encourages women to pursue their interests in STEM through the Science in Australia Gender Equity program.

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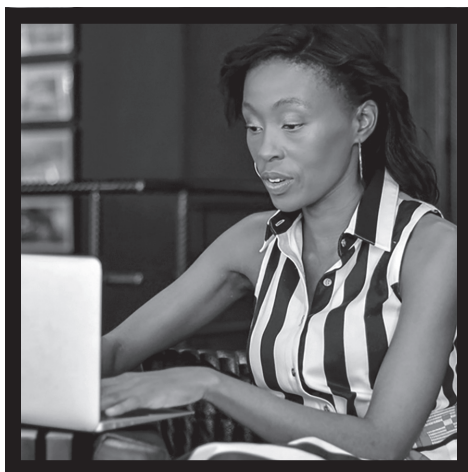


Seth Shezi, adaptation by ninesixteen.ca

# RAPELANG RABANA

## The Business of Education

Seth Shezi



Combining her talents in computer science and business leadership, Rabana founded Rekindle Learning, which seeks to empower youths through innovative learning. She strives to use technology to make education accessible to businesses throughout Africa.

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Deanna Burgart, adaptation by ninesixteen.ca

# DEANNA BURGART

## Indigeneer

Deanna Burgart



Deanna Burgart, leads youth and professionals in the creation of brave spaces that welcome Indigenous peoples, perspectives and wisdom. Recognizing the demand for Indigenous perspectives in the energy sector, she co-founded IndigeSTEAM, which provides Indigenous engagement through outreach programs.

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NASA, adaptation by ninesixteen.ca

# SALLY RIDE

## A Woman of Many Firsts



NASA

In 1982, Ride became the first female American astronaut, and returned to space in 1984. She assisted in the early development of the Canadarm. She later shared her passion for astronomy through public outreach for NASA.

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# NIVATHA BALENDRA

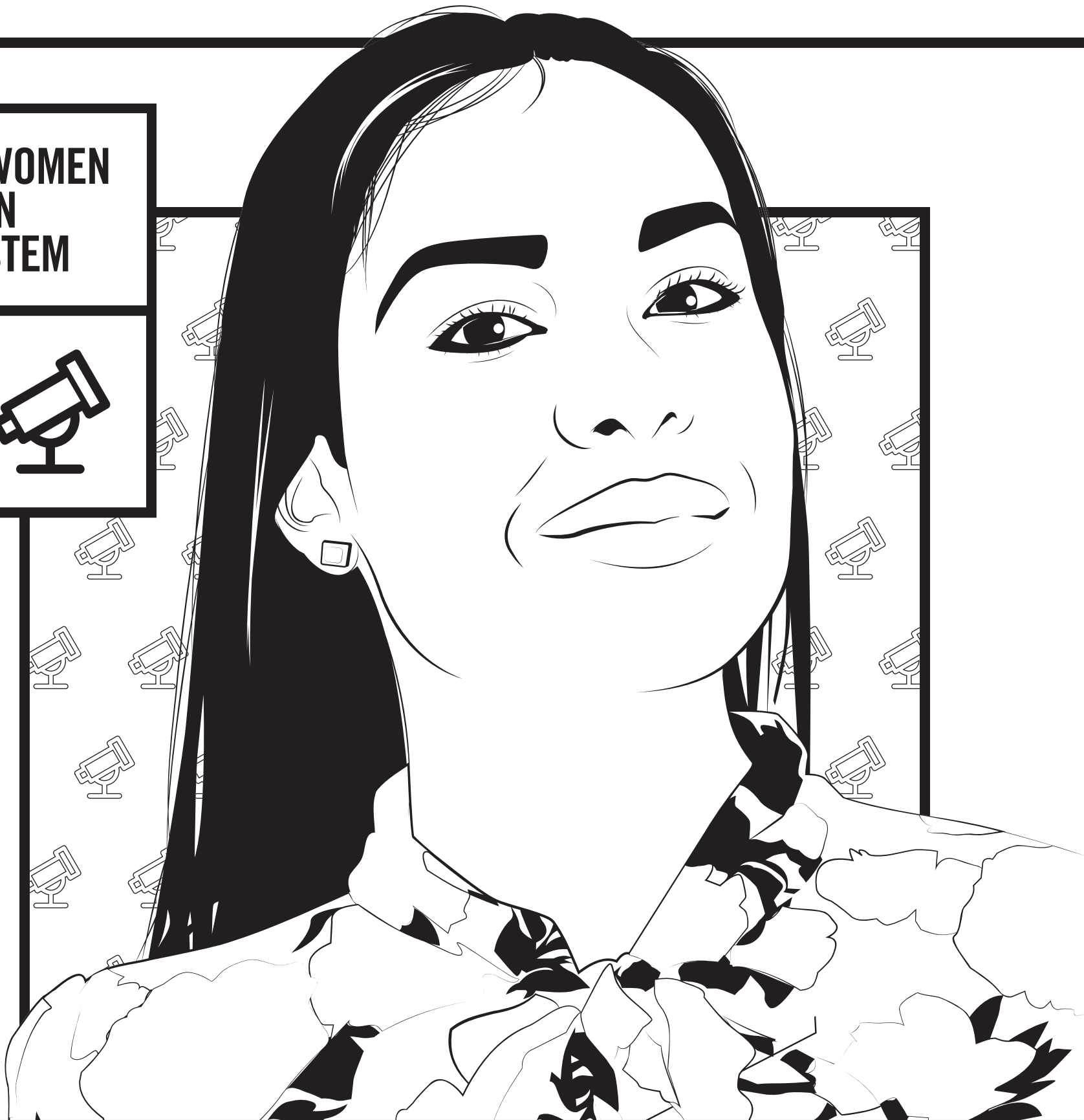
## No Oil in My Soil



After the Lac Megantic rail disaster, Balendra began researching environmentally-friendly methods for soil decontamination, which is how she came across the effectiveness of biosurfactants. Her start-up business converts food waste into non-toxic surfactants for use in cleaning and personal care products.

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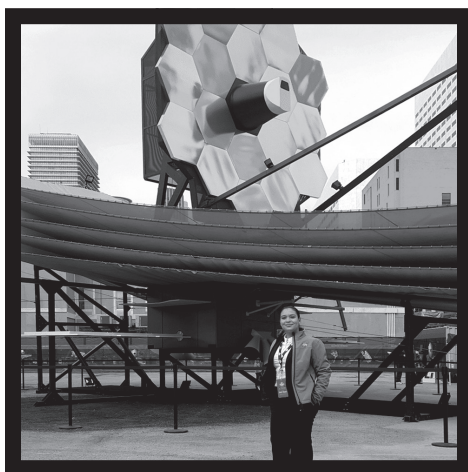
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Scarlin Hernandez, adaptation by ninesixteen.ca

# SCARLIN HERNANDEZ

## Guiding Eyes on the Skies



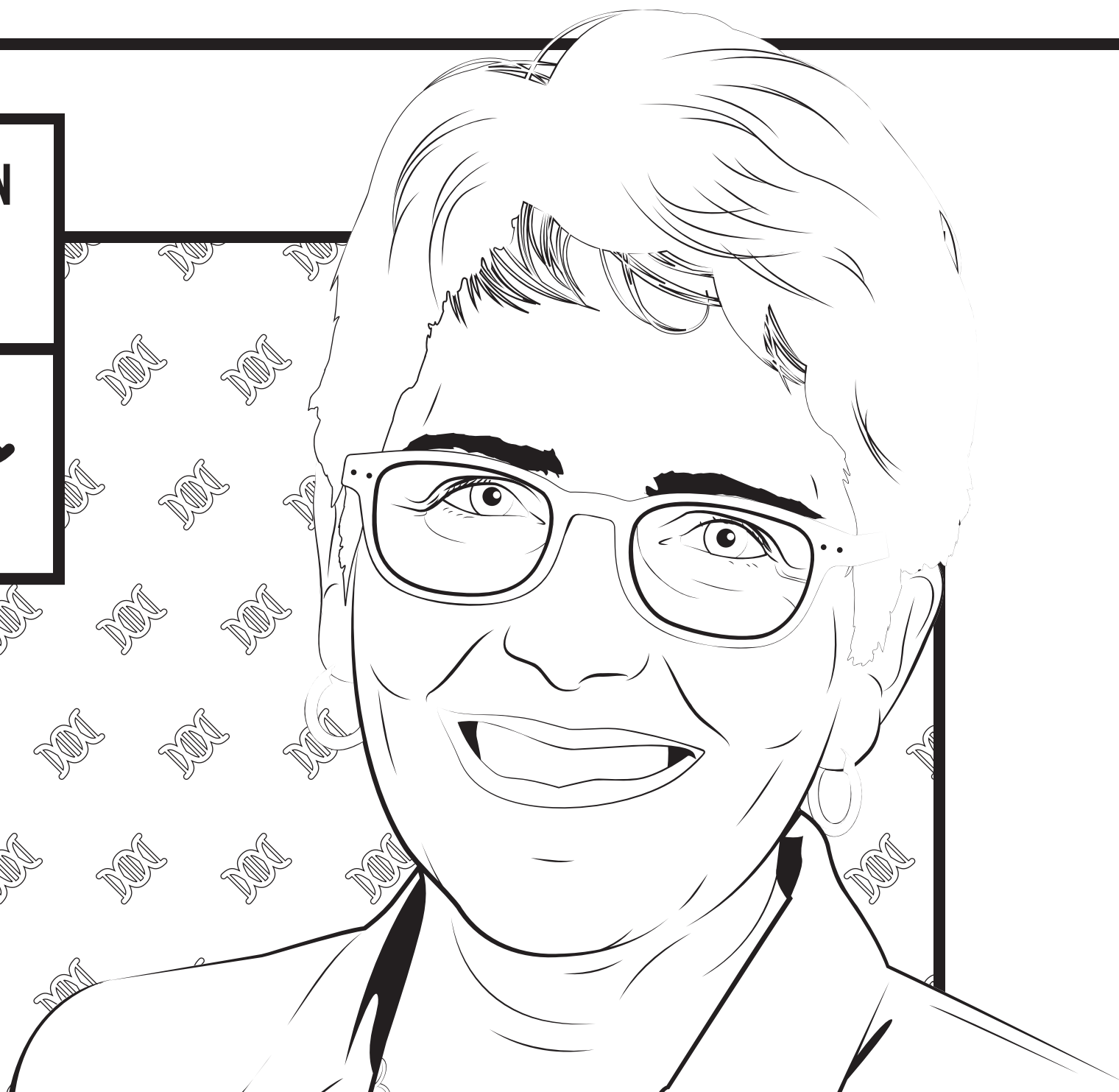
Scarlin Hernandez

As a spacecraft engineer, Hernandez tests, operates and maintains earth-based control systems for NASA projects in space. Her work on NASA's James Webb Telescope allows astronomers to peer back to the earliest days of the universe.

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# CATALINA LOPEZ-CORREA

## Cracking the Code of Life



Lopez-Correa's passion for genomics—the study of our genomes and those of other organisms—has taken her all over the world. She is passionate about creating more opportunities for women in science and using genomics to create healthier, more sustainable and inclusive communities.

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