



Spanish Women *in* SPACE SCIENCE

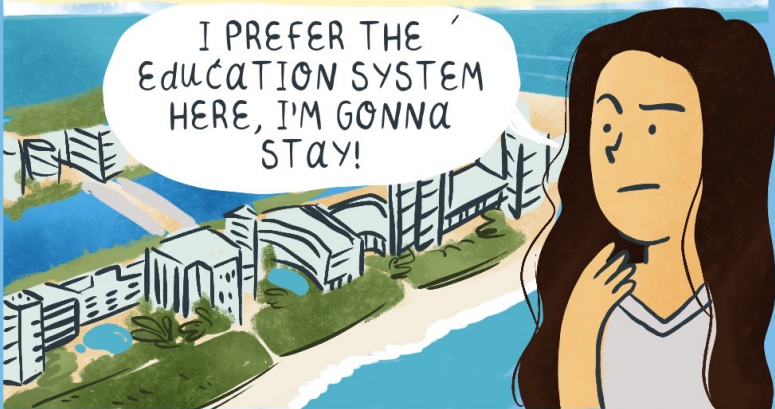


PROJECT: *EllassonCiencia*

by QUAN ZHOU & MECUSA

SANDRA HERNÁNDEZ, FROM BARCELONA, WENT TO MIAMI TO STAY WITH HER DAD FOR A YEAR

I PREFER THE Education SYSTEM HERE, I'M GONNA STAY!



ONE DAY, HER DAD TOOK HER TO VISIT NASA'S KENNEDY SPACE CENTER

I'VE JUST FALLEN IN LOVE!



SANDRA WORKED REALLY HARD TO ACHIEVE HER GOALS

SHE WAITRESSED

WHILE DOING HER UNDERGRAD

AND TOOK AS MANY INTERNSHIPS AS SHE COULD: AT BOEING, THE KENNEDY SPACE CENTER, AND AFTER GRADUATING... AT NASA!

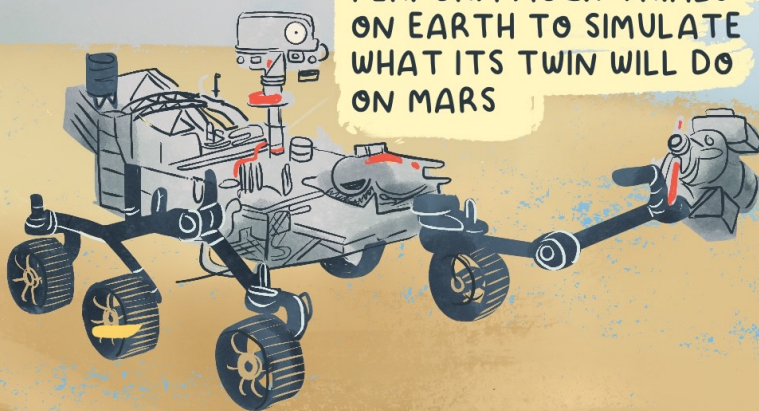


TODAY, AT JUST AGE 24 SHE WORKS AS A SYSTEMS ENGINEER AT THE NASA JET PROPULSION LABORATORY (JPL) SHE BELONGS TO THE MARS2020 TEAM, WHICH SUCCESSFULLY LANDED THE PERSEVERANCE ROVER ON MARS.



SOFTWARE TEST PASSED!

SHE WORKS ON BUILDING AND OPTIMIZING PERSEVERANCE'S TWIN, THE OPTIMISM ROVER, WHICH IS USED TO PERFORM MOCK TRIALS ON EARTH TO SIMULATE WHAT ITS TWIN WILL DO ON MARS



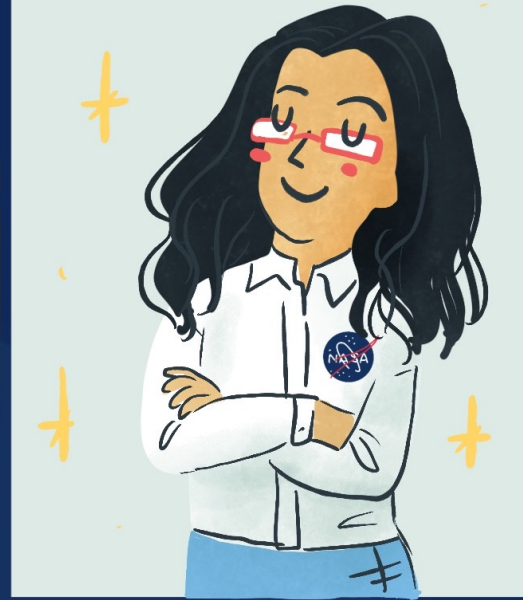
TERESA NIEVES-CHINCHILLA
WORKED TEACHING
TECHNOLOGY TO HIGH SCHOOL
STUDENTS IN ALCOBENDAS
DURING HER LAST YEARS IN
GRADUATE SCHOOL



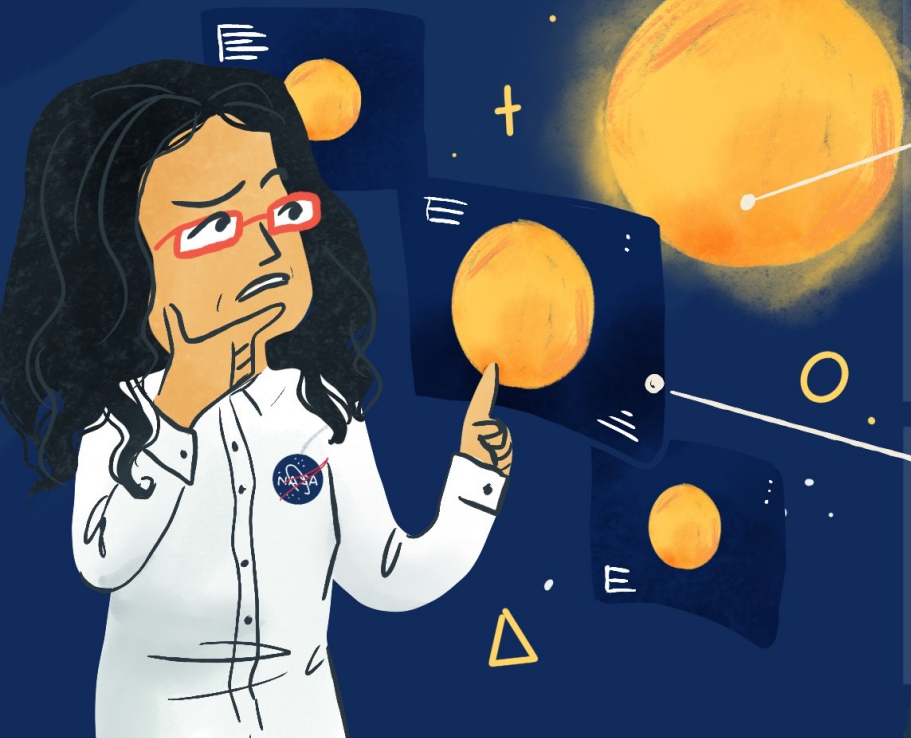
ONE DAY, SHE MET A NASA
EMPLOYEE



AFTER A VERY COMPETITIVE
SELECTION PROCESS, SHE GOT
THE JOB AND WORKED
TOWARDS GETTING A
PERMANENT POSITION



TERESA IS AN ASTROPHYSICIST
AT NASA'S GODDARD SPACE
FLIGHT CENTER, WHERE SHE
INVESTIGATES THE SUN



SHE IS IN CHARGE OF THE "SOLAR
ORBITER" MISSION, WHICH AIMS TO
UNDERSTAND SOLAR EXPLOSIONS
BY TAKING VERY CLOSE UP PICTURES
OF THE SUN AND BY WATCHING ITS
POLES FOR THE FIRST TIME

SHE STUDIES CORONAL MASS
EJECTIONS: SOLAR EXPLOSIONS THAT
IRRADIATE A HUGE AMOUNT OF
ENERGY, WHICH CAN CAUSE FROM
NORTHERN LIGHTS TO SATELLITE
DAMAGE

TERESA DEVELOPS MODELS TO
PREDICT THE CONSEQUENCES AND
TIMING OF THESE EXPLOSIONS

BEGOÑA VILA WAS ALWAYS PASSIONATE ABOUT THE SKY, THE MOON AND THE STARS

SOMEday, FROM VIGO I'LL REACH FOR THE STARS

AND DESPITE BEING ONE OF THE FEW WOMEN STUDYING PHYSICS AND WORKING AS AN ASTROPHYSICIST, SHE DIDN'T GIVE UP

Today, 25% ARE WOMEN

MAJORITY OF MALE COLLEAGUES

BEGOÑA WORKS AS A SYSTEMS ENGINEER FOR THE JAMES WEBB SPACE TELESCOPE AT NASA'S GODDARD SPACE FLIGHT CENTER

SHE COORDINATES THE TELESCOPE'S FINE GUIDANCE SENSOR, ESSENTIAL TO TAKE PHOTOS OF SPACE

IT'S THE BIGGEST TELESCOPE EVER PLACED IN SPACE, IT TOOK 25 YEARS TO BUILD IT

THE JAMES WEBB SEEKS TO UNDERSTAND GALAXY EVOLUTION AND TO SEARCH FOR LIFE ON OTHER PLANETS

BEGOÑA MADE SURE THE TELESCOPE WOULD ENDURE THE LAUNCH AND WORK UNDER THE PARTICULAR CONDITIONS YOU FIND IN SPACE

USING A CLONE OF THE TELESCOPE, SHE RUNS SIMULATIONS ON EARTH TO PREDICT WHAT MIGHT HAPPEN IN SPACE

IT SEEMED UNTHINKABLE BUT HERE I AM!

ADVICE FOR THOSE WHO WANT TO FOLLOW THEIR STAR

YOU MUST SEEK OPPORTUNITIES, BUT LUCK HAS TO BE ON YOUR SIDE TOO. I MYSELF GOT LUCKY AND LANDED ON THE PERFECT SPOT.

FOR SPANISH WOMEN OF THE PREVIOUS GENERATION IT WAS UNTHINKABLE TO WORK AT NASA, BUT HERE I AM. I DID NOT HESITATE

IT IS IMPORTANT TO HAVE WOMEN IN LEADERSHIP POSITIONS, PERCEIVING THIS AS NORMAL. SEEING YOURSELF REPRESENTED ENCOURAGES YOU TO BELIEVE YOU CAN MAKE IT TOO



SANDRA



TERESA



BEGONIA

THE EXPLOSION OF THE FIRST STARS
GENERATED THE CHEMICAL ELEMENTS THAT
MADE LIFE ON EARTH POSSIBLE.
SO DON'T FORGET YOU'RE MADE OF STARDUST 