



Ellen Ochoa

PHYSICIST AND ELECTRICAL ENGINEER IN SPACE!

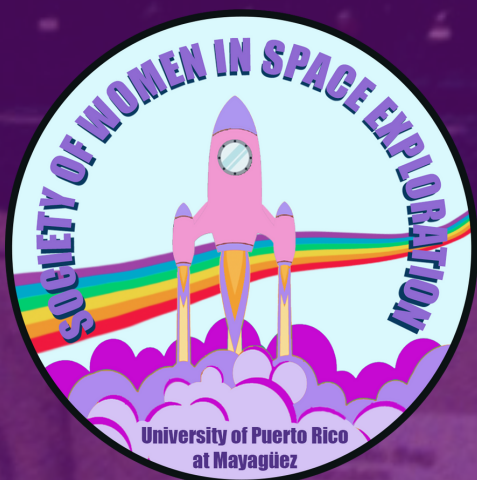
- Born in 1958 in Los Angeles, California, USA.
- Earned a Ph. D. in electrical engineering from Stanford University
- First Hispanic woman to travel into space (1993).
- Ochoa has spent a total of almost 1,000 hours in space!
- She applied to be an astronaut **three** times before being accepted by NASA. In between applications, she got her pilot's license and continued her research in optics.
- Former Director of the NASA Johnson Space Center
- In addition of being an astronaut, Ochoa is also a classically trained flutist!

GIRL
POWER



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Neil Armstrong

AERONAUTICAL ENGINEER ON THE MOON!

- Born in 1930 in Wapakoneta, Ohio, USA - died in 2012 in Cincinnati, Ohio, USA.
- Studied aeronautical engineering at Purdue University in West Lafayette, Indiana.
- Served in the Korean War and received 3 Air Medals.
- In 1955 he became a civilian research pilot for the National Advisory Committee for Aeronautics (NACA), later the National Aeronautics and Space Administration (NASA).
- Missions: Gemini 8 and Apollo 11, where he became the first man to step on The Moon!
- Fun Fact: Armstrong learned to fly an airplane before he learned to drive a car!

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Harrison Schmitt

GEOLOGIST ON THE MOON!

- Born in 1935, in Santa Rita, New Mexico, USA.
- Received a B.S. in geology from the California Institute of Technology in 1957; studied at the University of Oslo in Norway during 1957-1958; received doctorate in geology from Harvard University in 1964.
- Missions: Apollo 17 (First Geologist Member of the Scientist-Astronauts Crew as a geology observer).
- He landed on the lunar surface at 19:54 on the 11th of December, 1972. The crew spent 74 hours 59 minutes and 40 seconds on the lunar surface breaking the record for the longest stay on The Moon.

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Peggy Whitson

BIOCHEMIST IN SPACE!

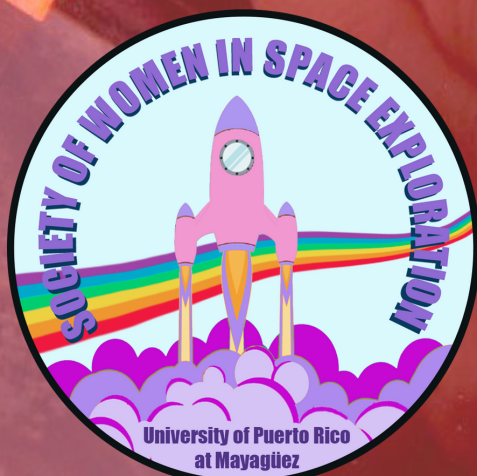


- Born in 1960 in Mount Ayr, Iowa, USA.
- Received a B.S. degree in biology and chemistry from Iowa Wesleyan College in 1981. Got a doctorate degree in biochemistry from Rice University in 1985.
- She holds records for the most time spent in space by any American (more than 534 days!), the most spacewalks of any woman astronaut (9 career spacewalks), the oldest woman to travel into space (at the age of 56) and the oldest woman spacewalker (at the age of 57). She is also the first woman astronaut to command the International Space Station twice (2008 and 2017) and the first woman to serve as Chief Astronaut of the NASA Office (2009).
- Missions: NEEMO 5, Expedition 5, Expedition 16, Expedition 50, Expedition 51, and Expedition 52.
- **Fun Fact:** Whitson made apple pies on the ISS using freeze-dried tortillas.
- “I think, just philosophically, we’re made to explore.” -Peggy Whitson



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Mae Jemison

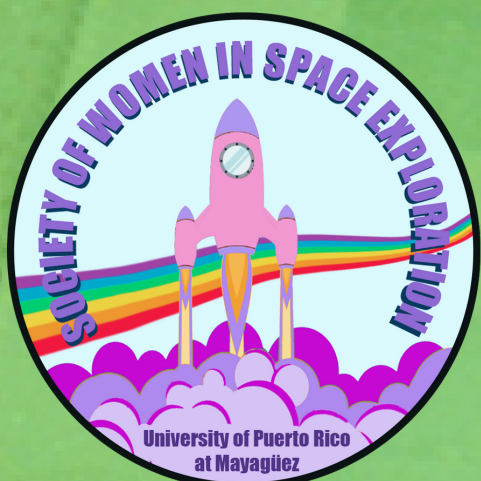
PHYSICIAN IN SPACE!

- Born in 1956 in Decatur, Alabama, USA.
- Jemison obtained her M.D. in 1981 at Cornell Medical College. She interned at Los Angeles County-USC Medical Center, and in 1982, she worked as a general practitioner.
- She became the first African American woman to travel in space when she went into orbit aboard the Space Shuttle Endeavour on September 12, 1992.
- Missions: STS-47 (Mission Specialist 4)
- Mission type: Microgravity Research
- She was on an episode of Star Trek! Jemison began each of her shifts in space by saying, "Hailing frequencies open," a reference to Lieutenant Uhura on Star Trek. In 1993, Jemison appeared in her own episode of Star Trek: The Next Generation as Lieutenant Palmer.

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Kent Rominger

CIVIL AND AEROSPACE ENGINEER IN SPACE!

- Born in 1956 in Del Norte, Colorado, USA.
- In 1978, he received a B.S. degree in civil engineering from Colorado State University, and in 1987 a Master of Science degree in aeronautical engineering from the U.S. Naval Postgraduate School.
- Missions: STS-73, STS-80, STS-85, STS-96, and STS-100
- He is the former NASA Chief of the Astronaut Office at Johnson Space Center and a Captain in the United States Navy.
- He holds the Space Shuttle Orbiter flight time record with 1610 hours.
- He flew on five Space Shuttle missions, including the first docking of a Space Shuttle to the International Space Station.
- He was part of the crew that installed the Canadian-built robotic arm to the ISS.

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Donald Pettit

CHEMICAL ENGINEER IN SPACE!

- Born in 1955 in Silverton, Oregon, USA.
- Received a B.S. in chemical engineering from Oregon State University in 1978 and a Doctorate in chemical engineering from the University of Arizona in 1983.
- Selected by NASA in April 1996. A veteran of three spaceflights, Dr. Pettit has logged more than 370 days in space and over 13 EVA (spacewalk) hours.
- Missions: Expedition 6, STS-126, Expedition 30, Expedition 31
- In Expedition 6 (November 23, 2002 to May 3, 2003), Dr. Pettit completed his first spaceflight as NASA International Space Station Science Officer aboard the station, logging more than 161 days in space.

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Rick Mastracchio

ELECTRICAL ENGINEER/COMPUTER SCIENTIST IN SPACE!

- Born in 1960 in Waterbury, Connecticut, USA.
- He received a B.S. degree in electrical engineering/computer science from the University of Connecticut in 1982, a M.S. degree in electrical engineering from Rensselaer Polytechnic Institute in 1987, and a M.S. degree in physical science from the University of Houston–Clear Lake in 1991.
- He is a member of the Institute of Electrical and Electronics Engineers.
- Missions: STS-106, STS-118, STS-131
- Mastracchio was the entry flight engineer, the primary robotic arm operator, and responsible for the transfer of items from the Space Shuttle to the Space Station.
- On June 19, 2017, Mastracchio was appointed Senior Director of Operations for Commercial Resupply Services at Orbital ATK.

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Mike Massimino

INDUSTRIAL AND MECHANICAL ENGINEER IN SPACE!

- Born in 1962 in Oceanside, New York, USA.
- Graduated with a B.S. degree in Industrial Engineering from Columbia University in 1984. In 1988, he graduated from MIT with a M.S. degree in Mechanical Engineering and a M.S. degree in Technology and Public Policy. He continued his studies at MIT where he earned a Degree in Mechanical Engineering in 1990 and a Ph.D. in Mechanical Engineering in 1992
- Missions: STS-109 Columbia & STS-125 Atlantis (Fourth and fifth Hubble Space Telescope servicing missions, respectively).
- He is known for being the first person to **tweet** from space
- He has appeared in several episodes of the TV show The Big Bang Theory
- He is currently a professor of Mechanical Engineering at Columbia University and a Senior Advisor for Space Programs at the Intrepid Museum.
- In 2016 he published the book Spaceman: An Astronaut's Unlikely Journey to Unlock the Secrets of the Universe

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Sally Ride

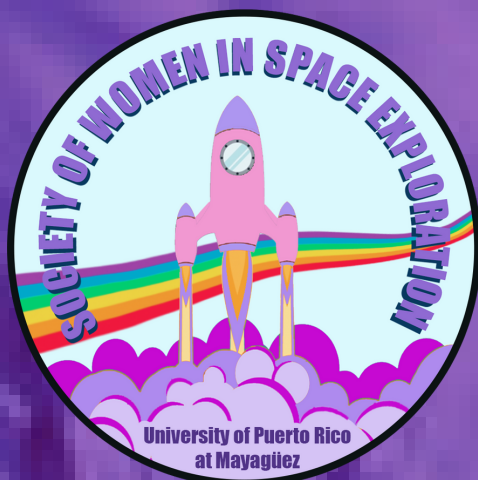


PHYSICIST IN SPACE!

- Born in 1951 in Encino, Los Angeles, California, USA - died in 2012 in California, USA.
- In Stanford University she received a B.S. degree in physics and a B.A. in English in 1973. Continuing her studies at Stanford, she obtained a M.S. degree in 1975 and a doctorate in physics in 1978.
- Sally Ride became the first American woman to go into space when she flew on the space shuttle Challenger on June 18, 1983.
- Missions: STS-7 and STS-41-G
- First and only acknowledged LGBTQ astronaut.
- She was inducted into the National Women's Hall of Fame and the Astronaut Hall of Fame.
- "There are lots of opportunities out there for women to work in these fields, ... Girls just need support, encouragement and mentoring to follow through with the sciences."- Sally Ride

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K. Megan McArthur



OCEANOGRAPHER IN SPACE!

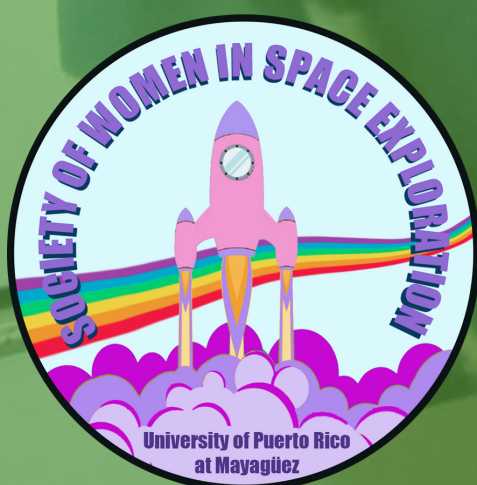


- Born in 1971 in Honolulu, Hawaii, USA.
- B. S. aerospace engineering, University of California-Los Angeles, 1993. Ph.D., oceanography, University of California-San Diego, 2002.
- Selected as a mission specialist by NASA in July 2000.
- Missions: STS-125 Atlantis (May 11-24, 2009) was the fifth and final Hubble servicing mission. The 19 year old telescope spent six days in the Shuttle's cargo bay undergoing an overhaul conducted by four space walkers over five daily spacewalks, with the assistance of crew-mates inside the Atlantis. The mission was accomplished in 12 days, 21 hours, 37 minutes, traveling 5,276,000 miles in 197 Earth orbits.
- In an interview before the flight, she said about the Hubble: "I'll be the last one with hands on it."



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Richard Linnehan

VETERINARIAN IN SPACE!

- Born in 1957, in Lowell, Massachusetts, USA.
- 1980: Graduated from the University of New Hampshire with a Bachelor of Science degree in animal sciences and a minor in microbiology and in 1985 received a Ph.D. in veterinary medicine from The Ohio State University College of Veterinary Medicine
- 1988: Completed two-year internship in exotic animal medicine and comparative pathology at the Baltimore Zoo and the Johns Hopkins University
- 2009: Received the Master of public administration degree from Harvard University's Kennedy School of Government
- Selected by NASA in March 1992.
- Veterinarian and NASA astronaut whose first mission was for the Life Sciences and Micro-gravity Spacelab.

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