

INFLUENTIAL MINORITY WOMEN IN S.T.E.M.

By Damien-Kyle Coriza

Lori Arviso Alvord (1958-)

- The first Navajo Woman to become a surgeon.
- In 2013, Dr. Alvord was nominated for U.S. Surgeon General.

Introduction

This project is dedicated to ten women who had play a significant role in advancing the S.T.E.M. field and are minorities within their respected rights.

Mae Jemison (1956 -)

- ▶ Engineer and Physician who became NASA's first Black Female Astronaut.
- ▶ She made her acting debut in Star Trek: The Next Generation.

Chien-Shiung Wu (1912-1997)

- ▶ Chinese-American Nuclear Physicist who contributed to the Manhattan Project.
- ▶ Three of her many contributions are her experiment disproved the hypothetical law of conservation of parity, her work on beta decay, and her later work on molecular changes in the deformation of hemoglobins that causes sickle-cell disease.
- ▶ Her nicknames include, “The first lady of Physics”, “The Chinese Madame Curie”, and the “Queen of Nuclear Research”.

Wanda Diaz Merced

- ▶ Blind, Puerto Rican-American Astrophysicist who studies cataclysmic stars using Sonification techniques.
- ▶ Her studies lead her to linked Star Formation to Gamma Ray Bursts.
- ▶ She calls for the sciences to be more inclusive toward people with disabilities.

Lynn Conway (1938-)

- ▶ Computer Scientist, Inventor, and Transgender Rights Activist.
- ▶ She is a pioneer on Microchip Designs.
- ▶ She came out as a Trans Woman in 1999 and is a strong advocate for Transgender Equality.

Sabrina Gonzalez Pasterski (1993-)

- ▶ Cuban-American Physicist who is dubbed by Harvard University as “The Next Einstein”.
- ▶ She Studies Black Holes, Space Time, and Gravity through the context of quantum mechanics.

Sinah Estelle Kelley

- ▶ Black American Chemist who works on the mass production of Penicillin for the U.S. Department of Agriculture.
- ▶ She also studies the effects of Strontium-90.

Flossie Wong-Staal (1947-)

- ▶ Chinese-American Molecular Biologist and Virologist who focused on gene therapy and retroviruses.
- ▶ She was the first scientist to clone the H.I.V. virus and determine the function of its genes.

Mary Jackson (1921 - 2005)

- ▶ Black American Mathematician who become NASA's first Black Female Engineer in 1958.
- ▶ She contributed to the Space Race.

Dorothy Vaughan (1910 - 2008)

- ▶ Black American Mathematician and Human Computer.
- ▶ NASA's first female black manager.
- ▶ Expert FORTRAN Programmer.

Katherine Johnson (1918 -)

- ▶ Black American Mathematician and Physicist who contributed to the Space Race.
- ▶ She is known for calculating the trajectories for many NASA missions.