

The many faces of physics



Gladys West

A mathematician at the Naval Surface Warfare Center, never allowed any limitations to hold back her potential, created a mathematical model of the Earth and guided the world years later by using it to help create GPS.

Image courtesy of Air Force Space Command Public Affairs



Charlie Sanabria

Currently an HTS magnet systems engineer at Commonwealth Fusion Systems. He received his PhD from the Florida State University where he was awarded the 2018 Early Career Best SUST Paper Award for his work on Nb₃Sn heat treatment at the NHMFL.

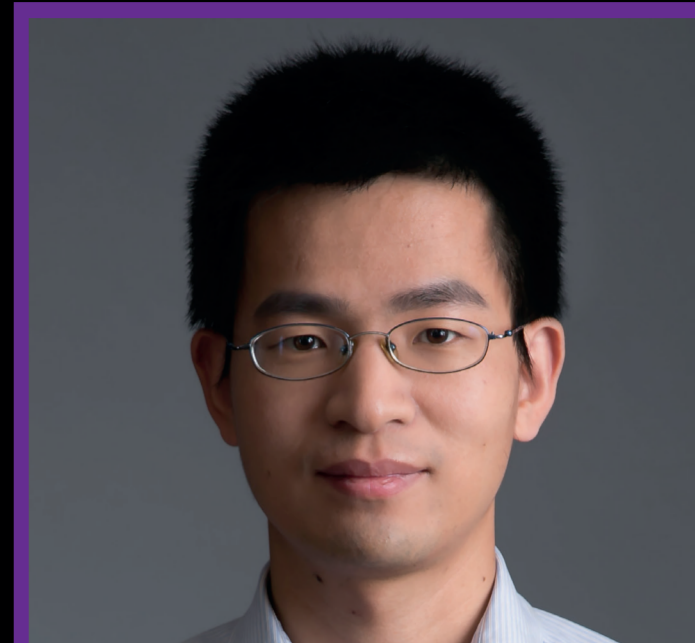
Image courtesy of Charlie Sanabria



Katherine G. Johnson

A NASA mathematician, trailblazer in the quest for racial equality, triumphed over discrimination by contributing to our nation's accomplishments in human spaceflight and championing STEM education.

Image courtesy of NASA Langley Research Center



ChaoYang Lu

Currently a Professor of Physics at the University of Science and Technology of China and a board member on the Quantum Science & Technology journal. His work on quantum teleportation was selected as "Breakthrough of the Year 2015" by *Physics World*.

Image courtesy of Kitty Zhang



Michael Ramsey-Musolf

An internationally recognized leader at the interface of theoretical nuclear and high energy physics with cosmology and a coauthor of more than 200 papers, and he works to educate colleagues on the reality for sexual and gender minorities in the sciences.

Image courtesy of Roberto Ameszca



Elsie Effah Kaufmann

Senior Lecturer and founding Head of the Department of Biomedical Engineering at the University of Ghana, and the first female recipient of the Golden Torch Award for International Academic Leadership by the National Society of Black Engineers in 2018.

Image courtesy of Elsie Effah Kaufmann



Sylvester James Gates, Jr.

A theoretical physicist known for his work on supersymmetry, supergravity, and superstring theory. In 2013 he was elected to the National Academy of Sciences, becoming the first African American theoretical physicist so recognized in its 150-year history.

Image courtesy of John Thomas Consoli @ the University of Maryland



Flossie Wong-Staal

A virologist and molecular biologist, pioneer in her field, a major contributor to the discovery of HIV and the first scientist to clone the virus in order to create a test for it, bringing humanity one step closer to finding a cure.

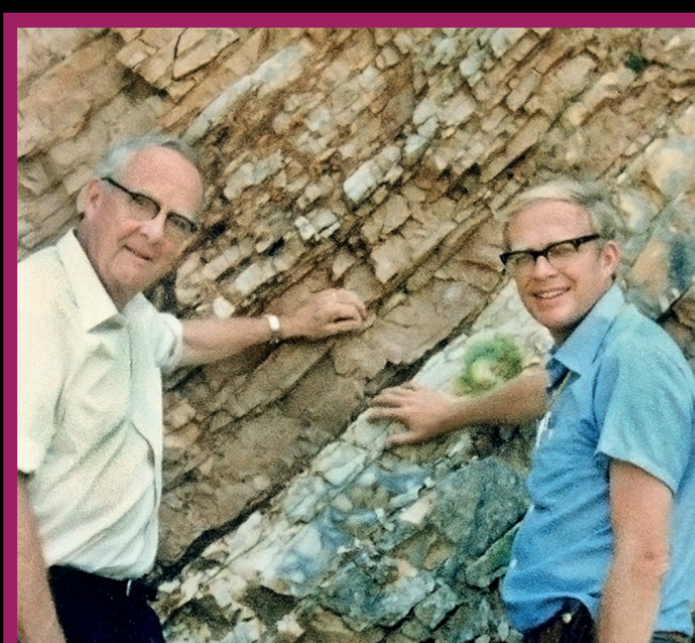
Image courtesy of the National Cancer Institute, created by Bill Branson



Daisy Shearer

A PhD candidate in experimental physics at the University of Surrey, focusing on semiconductor spintronics for quantum technology applications. Autistic herself, Daisy is an advocate for disability and neurodiversity in STEM and manages a project called "neurodivergent in STEM".

Image courtesy of Daisy Shearer



Luis and Walter Alvarez

A father-son research team, Luis an experimental physicist, Walter a geologist, together discovered how dinosaurs became extinct and created the Impact Theory, filling major gaps in our planet's history.

Image courtesy of Berkeley Lab



Chein-Shiung Wu

An experimental physicist who made a significant impact in the field of nuclear physics, contributor to the Manhattan Project, initial conductor of the Wu experiment and pivotal figure in physics even in the face of gender inequality.

Image courtesy of Smithsonian Institution Archives, Accession 90-105, Science Service Records, Image No. SIA2010-1511



Dr. Sheila Kanani

A planetary scientist and teacher who is passionate for public engagement and diversity, the Education, Outreach and Diversity Officer at the Royal Astronomical Society, and author of the award-winning children's book *How To Be An Astronaut and Other Space Jobs*.

Image courtesy of Chris Close (<https://www.chrisclose.com>)

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