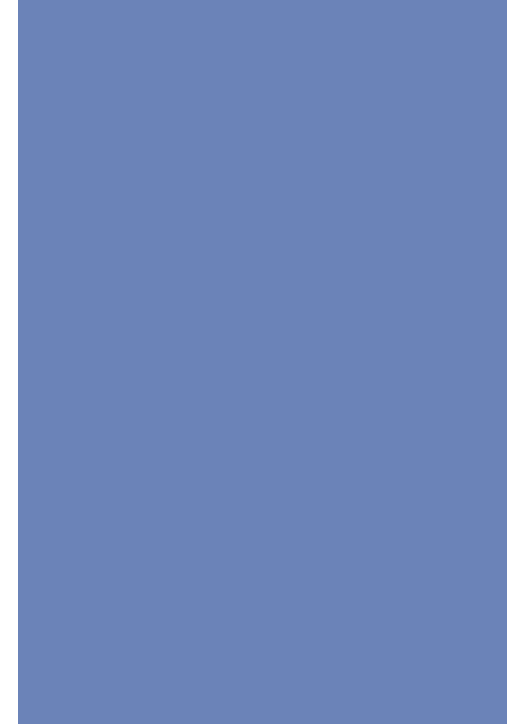


**INTERNATIONAL DAY OF
WOMEN AND GIRLS IN
SCIENCE BOOK WEEK**

2025

HYPATIA

- ❖ Born 370 in Alexandria, Egypt
- ❖ Egyptian philosopher, astronomer, and mathematician
- ❖ The only female scholar to be acknowledged for her achievement in ancient Egypt
- ❖ Constructed plane astrolabes and graduated brass hydrometers
- ❖ Taught at the Neoplatonic School and became the school's director



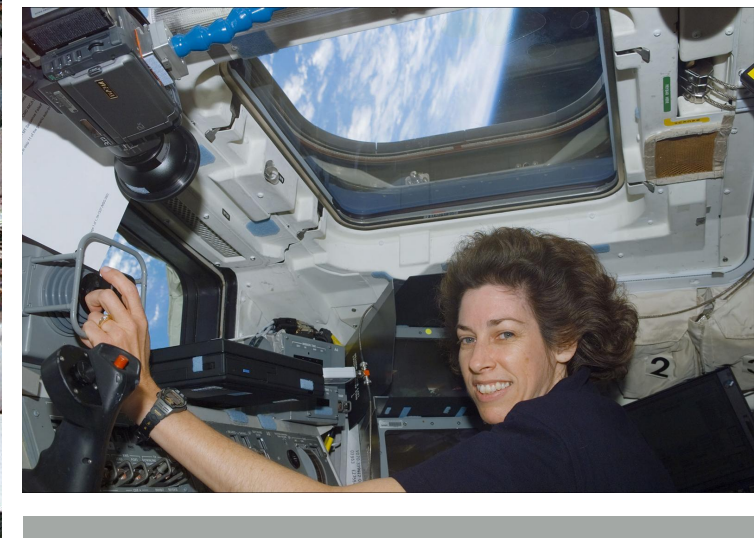
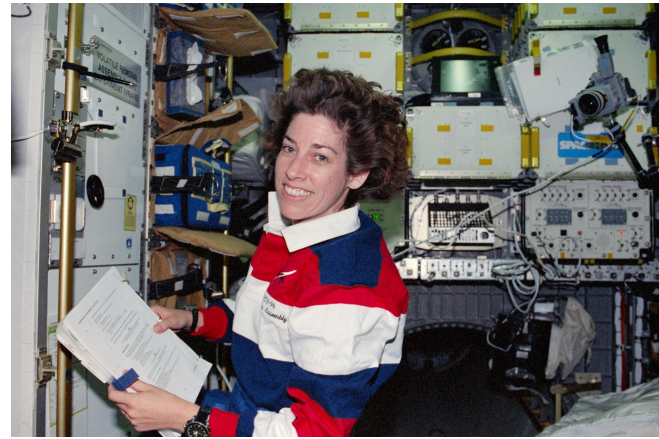
DR. GLADYS WEST

- ❖ Born in 1930
- ❖ African-American mathematician
- ❖ Helped in the development of satellite geodesy models
- ❖ Played a crucial role in the development of the Global Positioning System (GPS)
- ❖ Inducted into the U.S. Air Force Hall of Fame in 2018



DR. ELLEN OCHOA

- ❖ Born 1958
- ❖ American engineer & astronaut
- ❖ First Hispanic woman to go to space
- ❖ Johnson Space Center's first Hispanic director and second female director
- ❖ Researched optical systems for information processing
- ❖ She obtained a Ph.D. in electrical engineering



DR. MARYAM MIRZAKHANI

- ❖ 1977-2017
- ❖ Iranian mathematician
- ❖ In 2014 she became the first woman to win the Fields Medal, for her contributions to the dynamics and geometry of Riemann surfaces and their module spaces
- ❖ She specialized in theoretical mathematics like moduli spaces, Teichmüller theory, hyperbolic geometry, Ergodic theory and symplectic geometry.

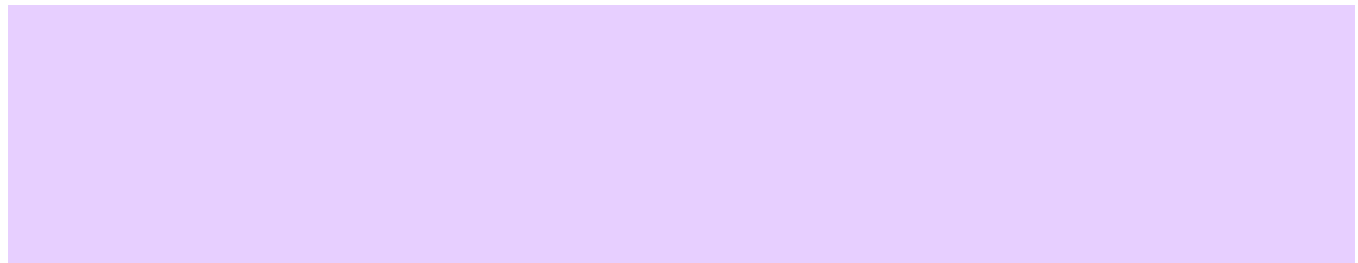
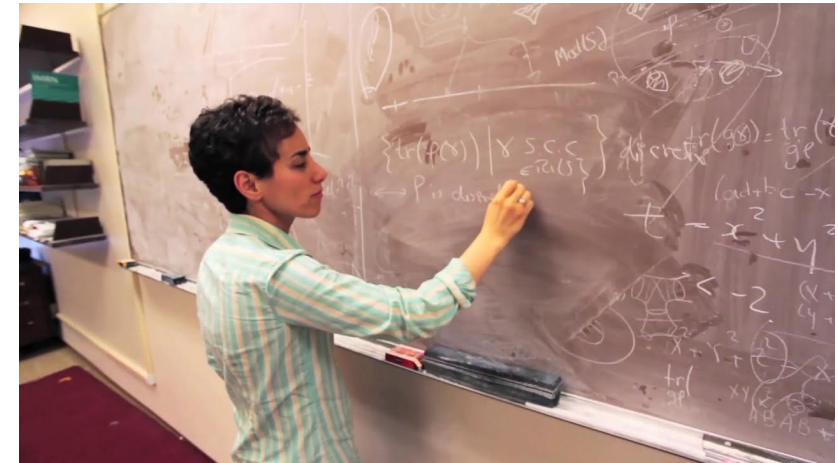
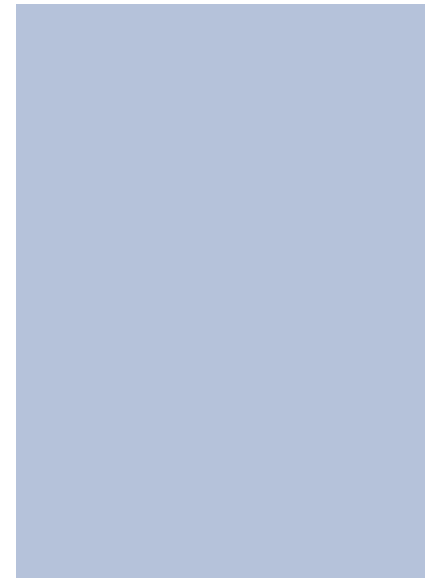
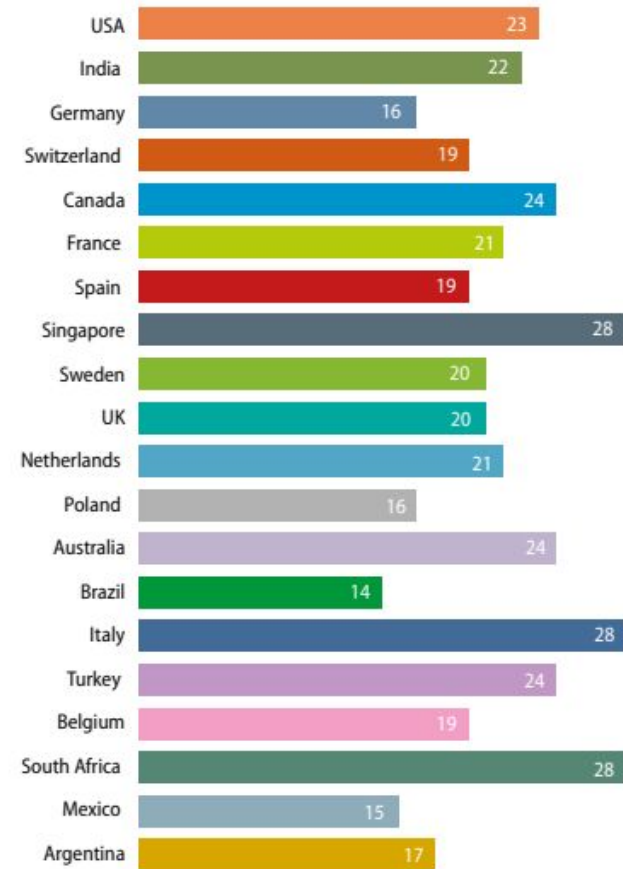


Figure 3.2: **Share of women in top 20 countries for share of professionals with AI skills, 2017 (%)**
In descending order for top countries



Source: WEF (2018) *The Global Gender Gap Report 2018*. World Economic Forum: Geneva.

MARY GOLDA ROSS

- ❖ 1908 - 2008
- ❖ Cherokee Engineer
- ❖ First Native American woman engineer
- ❖ Founding member of Lockheed's secret "Skunk Works"
- ❖ Designed space crafts, ballistic missiles, and satellites



DR. MARIE CURIE

❖ 1867 - 1934

- ❖ Polish physicist and chemist
- ❖ Conducted research on radioactivity
- ❖ Discovered the elements polonium and radium
- ❖ First women to win a Nobel Prize
- ❖ First person to win a Nobel Prize twice and the only person to do it in two different scientific fields - physics and chemistry

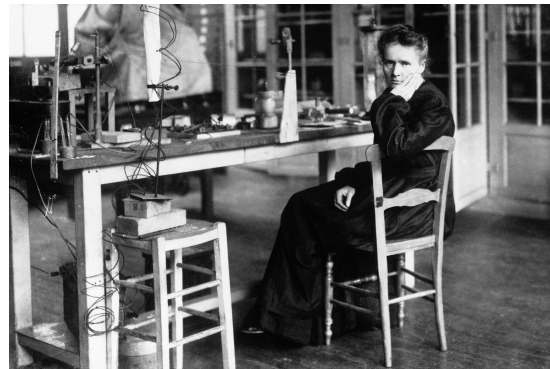
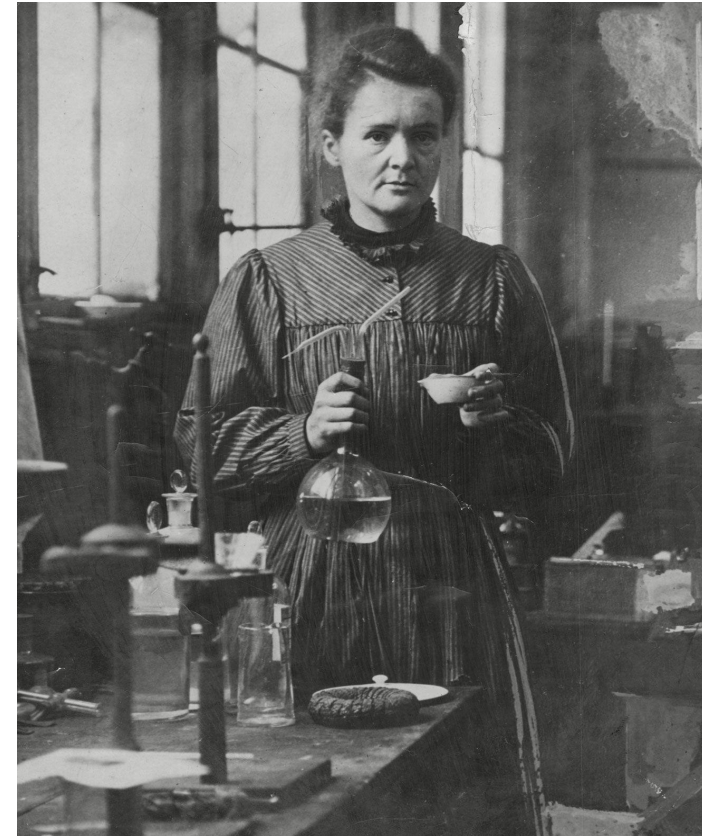
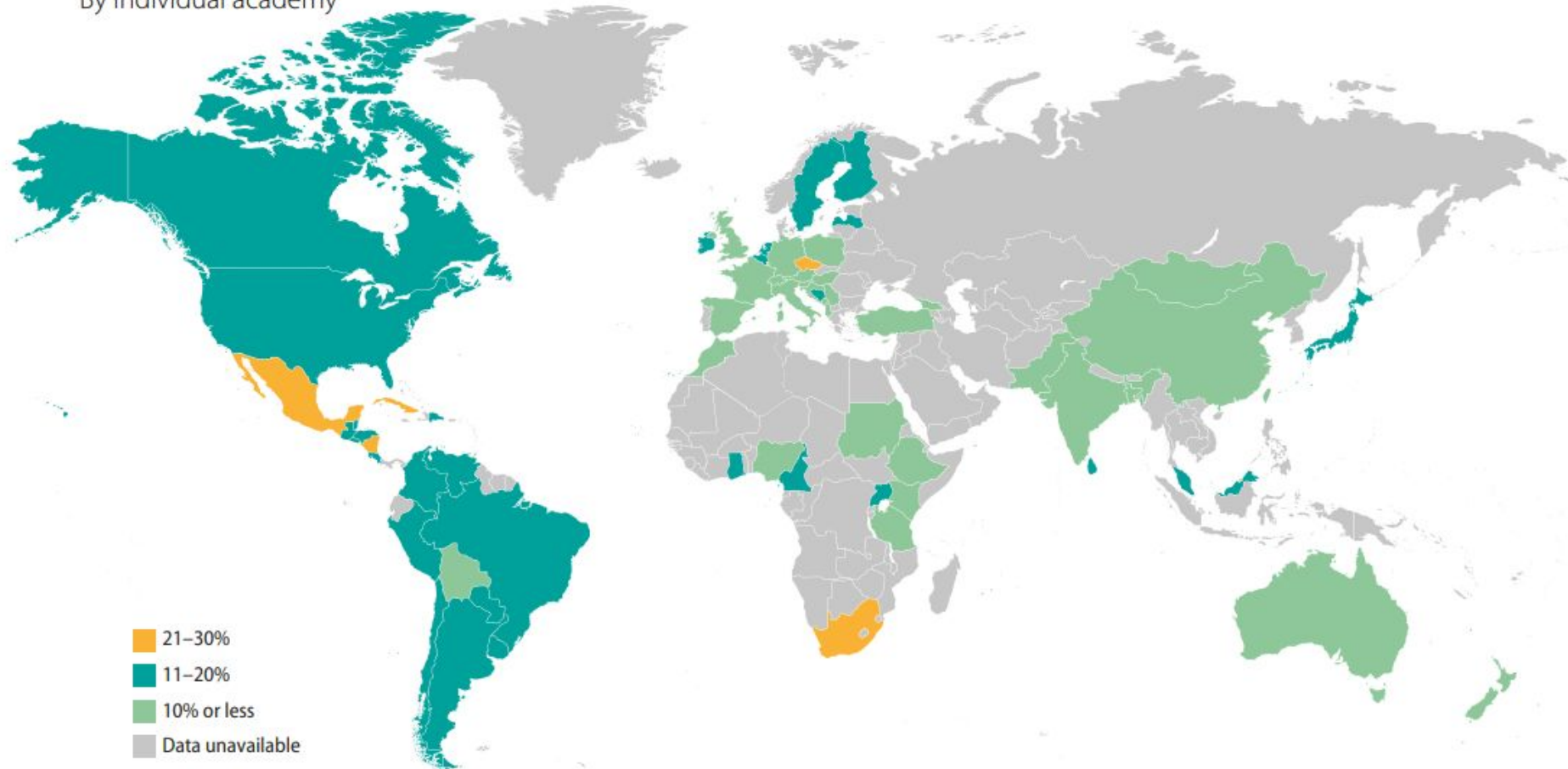


Figure 3.8: **Share of female members of national science academies, 2013 (%)**
By individual academy

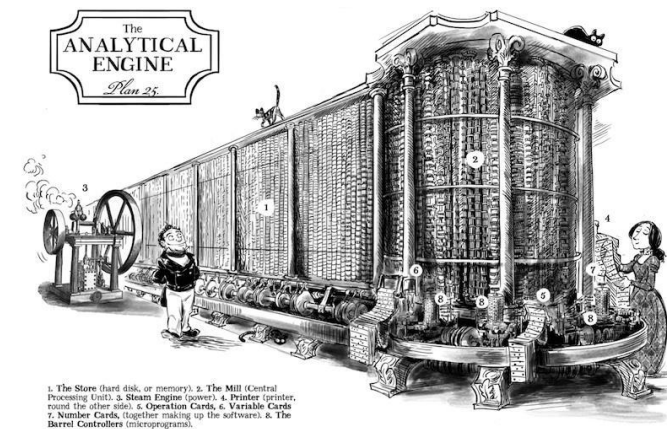
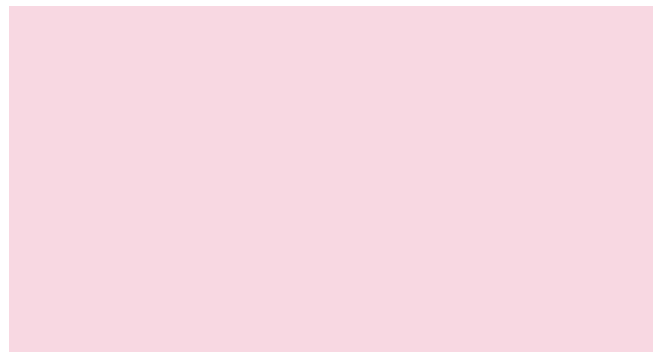


Note: For each country aside from Switzerland, the data reflect one academy of science; for Switzerland, the data reflect the combined membership of the Swiss Academy of Medical Sciences (17% women) and the Swiss Academy of Engineering Sciences (10% women).

Source: ASSAf (2015) *Women for Science: Inclusion and Participation in Academies of Science: a Survey of the Members of IAP: the Global Network of Science Academies*. Academy of Science of South Africa: Pretoria

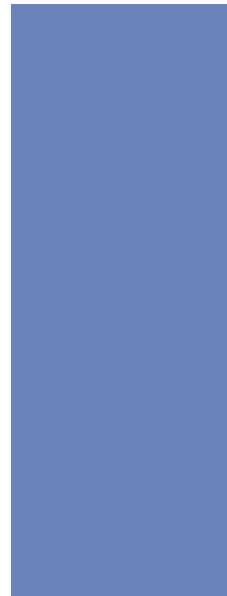
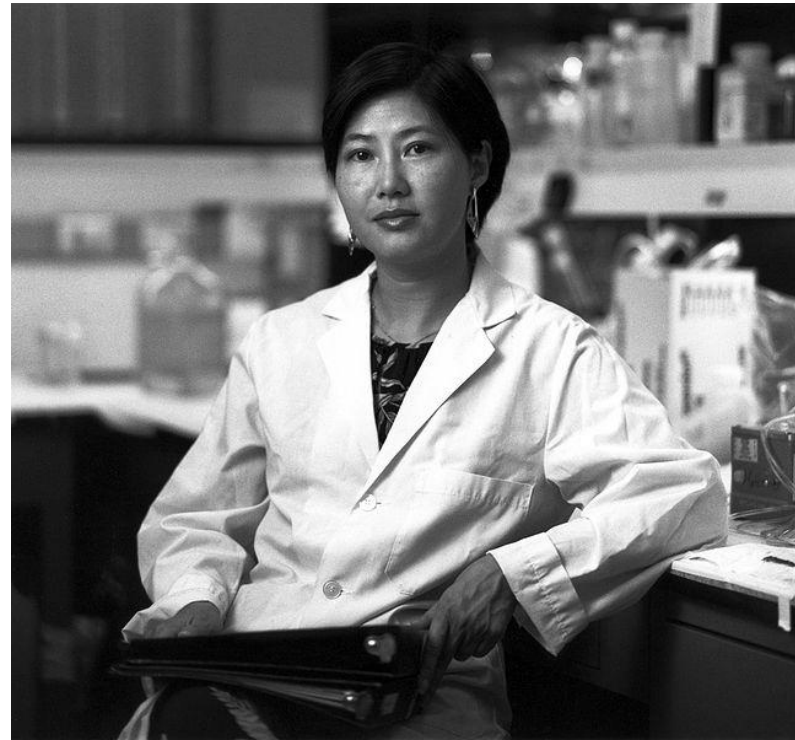
ADA LOVELACE

- ❖ 1815-1852
- ❖ English mathematician
- ❖ First computer programmer
- ❖ Worked with Charles Babbage and his Analytical Engine, an early prototype of the computer
- ❖ Published the first computer algorithm titled, "Note G"



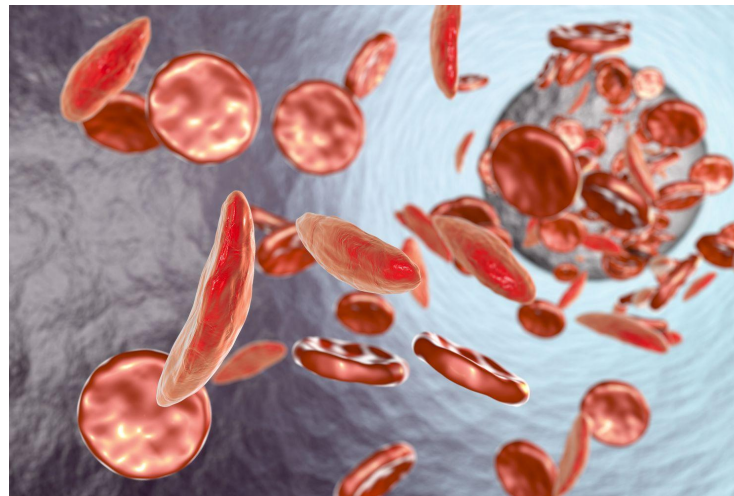
DR. FLOSSIE WONG-STAAAL

- ❖ 1947 – 2020
- ❖ Chinese-American virologist and molecular biologist
- ❖ First scientist to clone HIV
- ❖ Her contributions to HIV research helped prove HIV causes AIDS and develop diagnosing and treatments for the disease



DR. ANGELLA DOROTHA FERGUSON

- ❖ Born in 1925
Washington, D.C.
- ❖ African-American
pediatrician and medical
researcher
- ❖ Developed guidelines
and blood tests to detect
sickle cell anemia at birth
- ❖ The blood test she
developed is used in over
30 states today



DR. ROBIN WALL KIMMERER

- ❖ Potawatomi botanist and author
- ❖ In 2013 she published *Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge, and the Teachings of Plants*
- ❖ Her interests include moss ecology and the role of traditional knowledge in ecological restoration

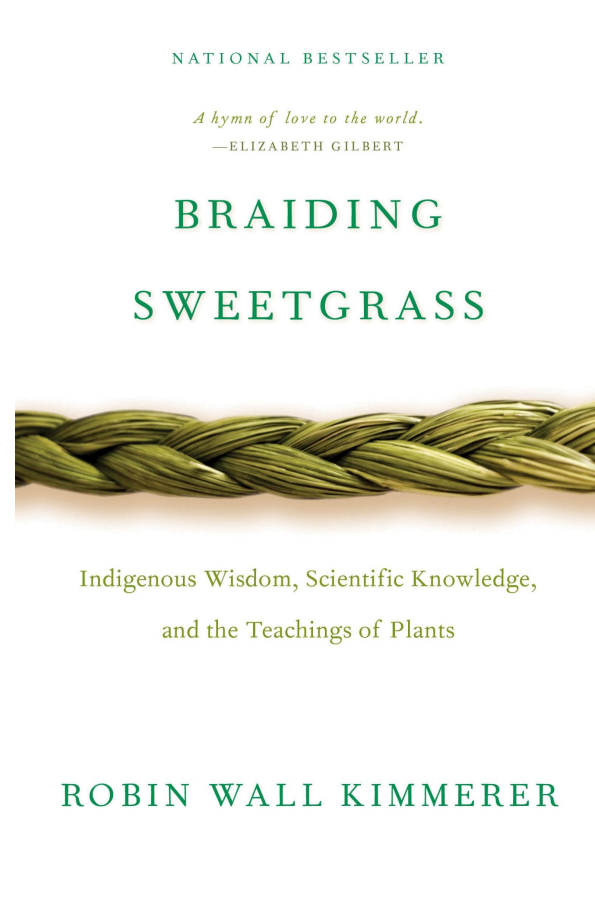
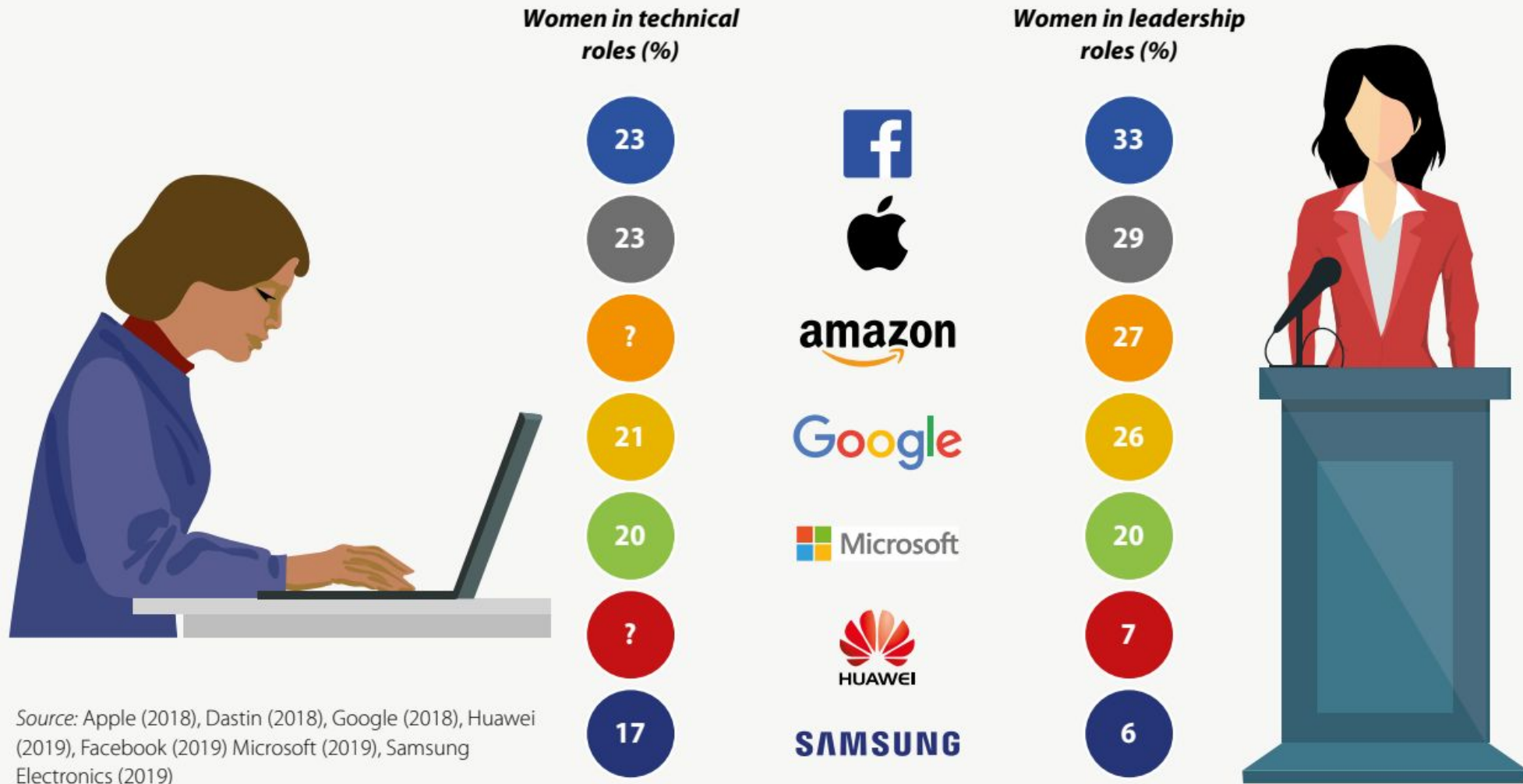


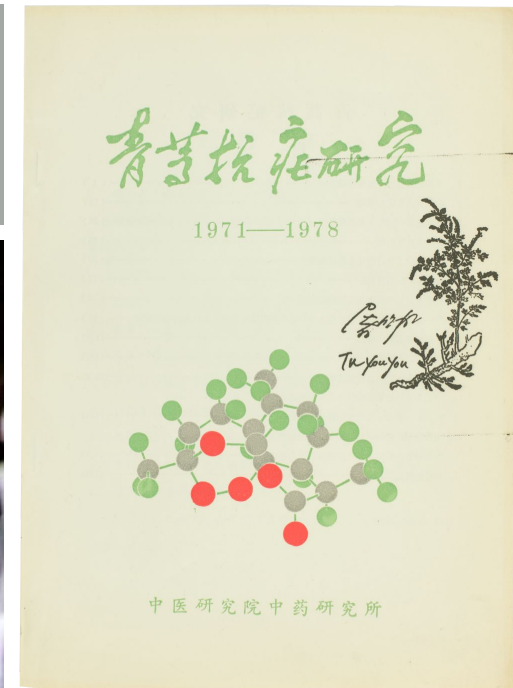
Figure 3.3: Women in technical and leadership roles in selected top multinational technology companies, 2018–2019



Source: Apple (2018), Dastin (2018), Google (2018), Huawei (2019), Facebook (2019) Microsoft (2019), Samsung Electronics (2019)

DR. TU YOUYOU

- ❖ Born in 1930 Zhejiang Ningbo, China
- ❖ She won the 2015 Nobel Prize in Physiology or Medicine
- ❖ Turned to traditional Chinese medicine texts to find a treatment for malaria
- ❖ Discovered artemisinin, a drug derived from the sweet wormwood plant, and is now used to treat malaria



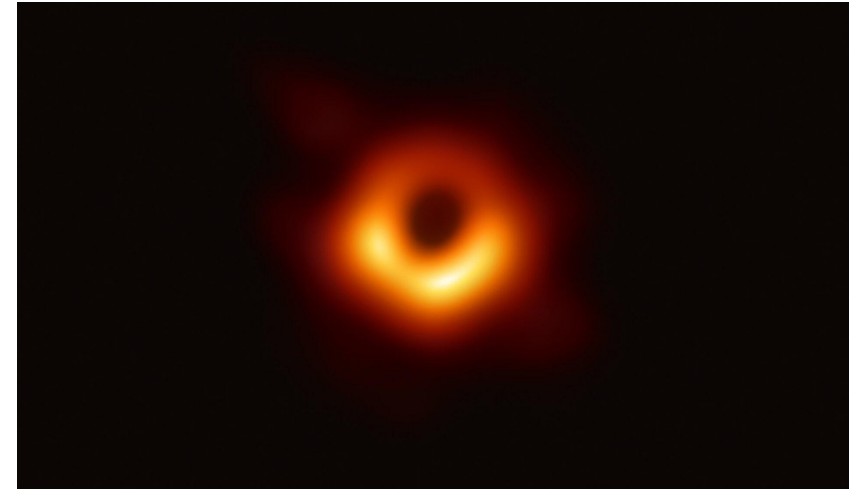
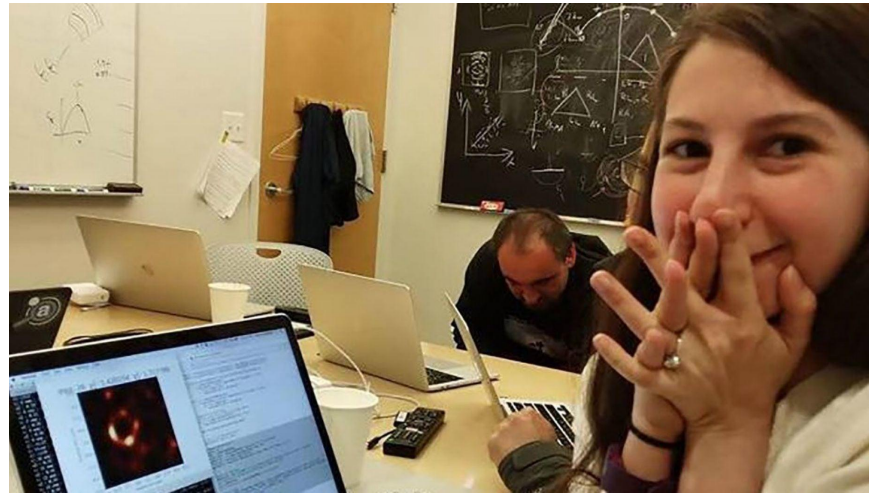
DR. VALERIE THOMAS

- ❖ Born in 1943 Maryland, USA
- ❖ American scientist and inventor
- ❖ In 1980, she patented the illusion transmitter, an early 3D technology that is still being used by NASA today
- ❖ The illusion transmitter uses concave to transmit optical illusion of a 3D image on the receiving end



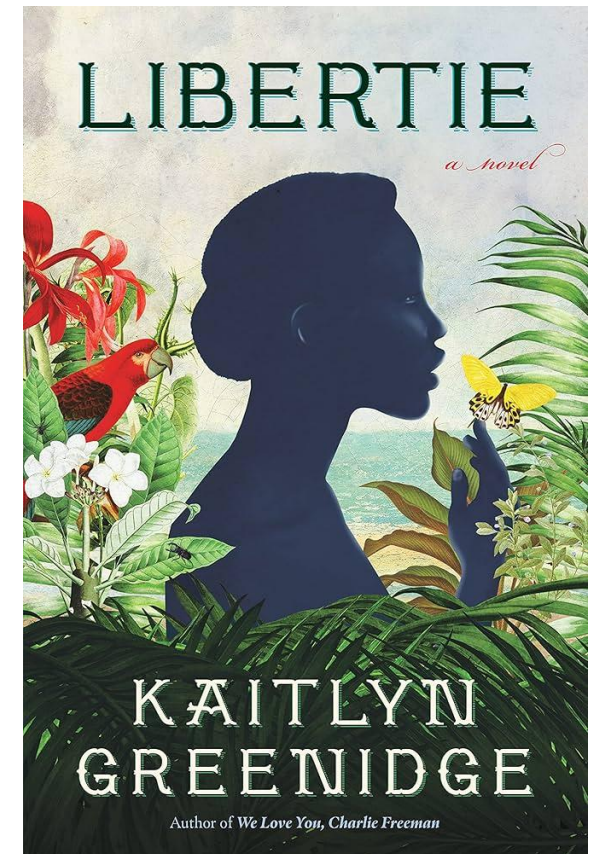
DR. KATIE BOUMAN

- ❖ Born 1989
- ❖ Engineer and computer scientist
- ❖ Contributed to the first direct image of a black hole
- ❖ Currently works as a professor in the California Institute of Technology
- ❖ Works on new systems for computational imaging



DR. SUSAN SMITH MCKINNEY-STE WARD

- ❖ Born in 1846 or 1847
- ❖ Became the first African American female doctors in New York upon graduating from New York Medical College for Women
- ❖ She co-founded the Brooklyn Women's Homeopathic Hospital and Dispensary
- ❖ Practiced medicine in New York as well as Montana and Wyoming
- ❖ The book *Libertie* by Kaitlyn Greenidge was inspired by her life.



**For more information check out
our research guide!**

