Black HEROES of Maths

Elbert Cox was the first Black person in history to receive a PhD in mathematics, in 1925. He turned down a scholarship to study violin at the Prague Conservatory of Music to pursue mathematics, taking a break from his studies after his Bachelor's degree to fight in the first world war.

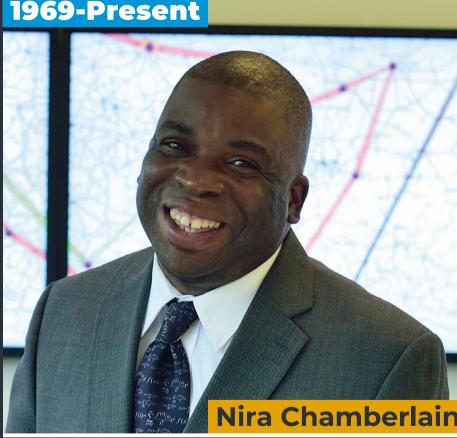


Mary Jackson is best remembered as NASA's first Black female engineer. She joined NASA as a computer under Dorothy Vaughan, then moving to work for an engineer within NASA, before completing training to become an engineer. Unable to get a promotion to manager as an engineer, she left engineering to take a job within NASA that would allow her to influence the hiring and promotion of all of NASA's female mathematicians,

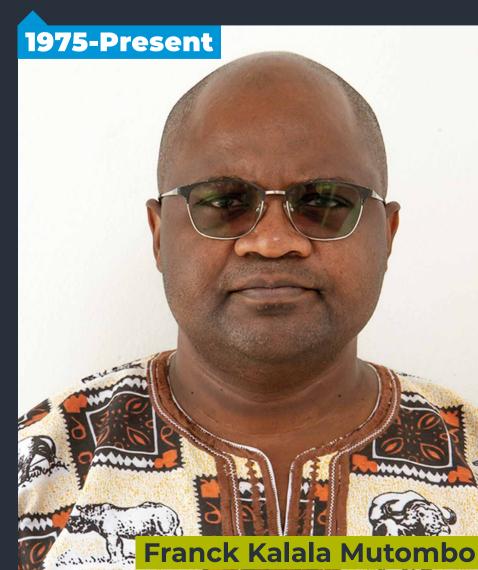


Nira Chamberlain has been president of the Institute of Mathematics and its Applications in the UK since 2020. He has been quoted in the Encyclopedia of Mathematics and Society for his mathematical modelling work for industrial partners. He was awarded an OBE in 2022 for his services to mathematical sciences and has repeatedly been featured in the 100 most influential British people from African and African Caribbean heritage 'Powerlist'.

1969-Present



Franck Kalala Mutombo is a Professor of Mathematics at Lubumbashi University and former academic director of AIMS Senegal. AIMS South Africa Alumni he has studied in France, Scotland, and the Democratic Republic of the Congo. His work is in mathematical modelling, geometry, networks, and data science.



1908-1967

William Schieffelin Claytor was the third African-American to get a PhD in mathematics and the first Black man to publish in a mathematical research journal. He was a student of Elbert Cox, a teacher of Katherine Johnson, and later worked with David Blackwell.

William Schieffelin Claytor

1923-2011 **Jesse Ernest Wilkins Jr**

Jesse Ernest Wilkins Jr. was a child prodigy: at the age of 13, he was the youngest ever student to enrol at the University of Chicago. He became a nuclear scientist, engineer, and mathematician. His work on how nuclear energy is distributed inside reactors is the basis of how all nuclear reactors are designed. Reactors use the approach named for him (Wigner-Wilkins approach) to create plutonium used in weapons. He worked on the Manhattan Project and was the president of the American Nuclear Society.

1971-Present

Nicole M Joseph is an associate professor of mathematics and science education. She founded the Tennessee March for Black Women in STEM. Her research focuses on the experiences of Black women and girls with mathematics, and how white supremacy impacts this.

Nicole M. Joseph

1987-Present **Tolulope Fadina**

Tolulope Fadina is an assistant professor in mathematics. Her research work is in financial mathematics and actuarial science, and she has worked in several institutes across Africa, Europe, and North America. She is involved in the initiative to decolonize the mathematics curriculum.

Thomas Fuller Thomas Fuller, known as the Virginia Calculator, was an enslaved man in America. Born and likely educated in western Africa, he was a prodigious mental calculator, able to calculate large sums in a matter of minutes. 1914-1979

1710-1790

Marjorie Lee Browne Marjorie Lee Browne was one of the

first African American women to receive a PhD in maths. She worked with maths teachers, encouraging minorities and women into the subject, and taught and researched at North Carolina College for thirty years.

1965-Present

(atherine Adebola Okikiolu Kate Okikiolu is a Black British mathematician. She is the daughter of a renowned Nigerian mathematician and a maths teacher. Her research is primarily in elliptic differential operators. She has also worked to improve mathematics teaching for inner-city school children.



Erica Walker is an American maths professor. She is chair of the Department of Mathematics, Science, and Technology at Columbia University and the Director of the Institute for Urban and Minority Education. Her research is about how culture and policy impact engagement with maths, particularly for underserved students.

1989-Present

1972-Present

in 2022.

Benjamin Banneker was an African American mathematician, astronomer, and naturalist. He is thought to have descended from the Vai people who live mostly in modernday Liberia. He authored several astronomical almanacs, predicting eclipses and the movement of planets for the year ahead.



Euphemia Haynes was an American mathematician and educator. She was the first African American woman to earn a PhD in mathematics, in 1943.

Euphemia Lofton Haynes

David Blackwell

David Blackwell was the first African

American man to be inducted

into the National Academy of the

1890-1980



1918-2020

mathematics, exploring how patterns

form in nature, and his projects

include modelling for COVID-19,

which helped the NHS and regional

health planners during the global

Edray Goins specialises in number

theory and algebraic geometry. At his college in California he has set

up a summer school programme

students in mathematics. He was the

president of the National Association

of Mathematicians until 2020, where

formed a committee to maintain the

Edray Goins

updating of the Mathematicians of

to engage under-represented

among many other things, he

the African Diaspora website.

Sciences, and only the seventh African American to receive a PhD in mathematics. He was a statistician and mathematician whose work on game theory, probability theory, information theory, and statistics was significant. He wrote one of the first textbooks on Bayesian statistics. Katherine Johnsor 1966-Present Anotida Madzvamuse is a professor of mathematical and computational biology. His work is in applied



Mamokgethi Phakeng is a South African Professor of Mathematics Education and Vice-Chancellor of the University of Cape Town. She is the 2022 winner of the Africa Education medal. She founded the non-profit Adopt-A-Learner to help lower-income students engage with education. Since 2018, she donates 20% of her monthly salary to support financially needy women postgraduate students.

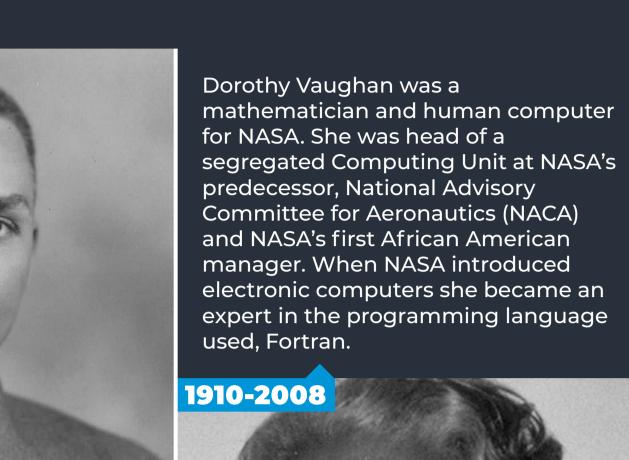
Mamokgethi Phakeng



In February 2022 Dr Talitha Washington was elected as the president of the Association for Women in Mathematics in the United States. She is also the inaugural Director of the Atlanta University Center Data Science Initiative, which looks for data-based solutions to societal problems, and aims to increase the number of Black data science experts.





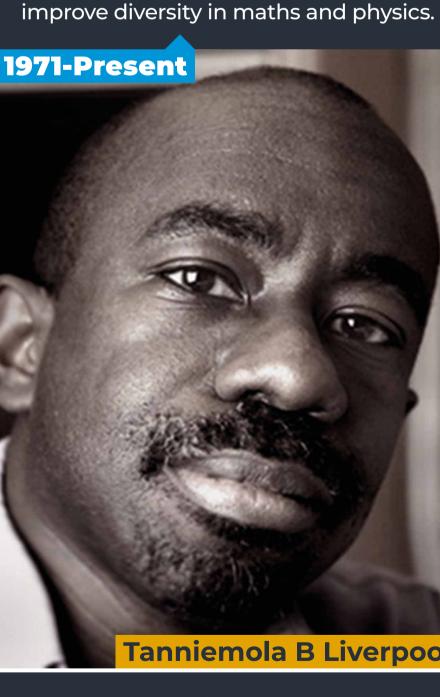




Grace Alele-Williams was the first Nigerian woman to be awarded a doctorate, and the first woman to become Vice-Chancellor of any university in Africa, at the University of Benin. She was a professor of mathematical education and received the Order of Niger in 1987.



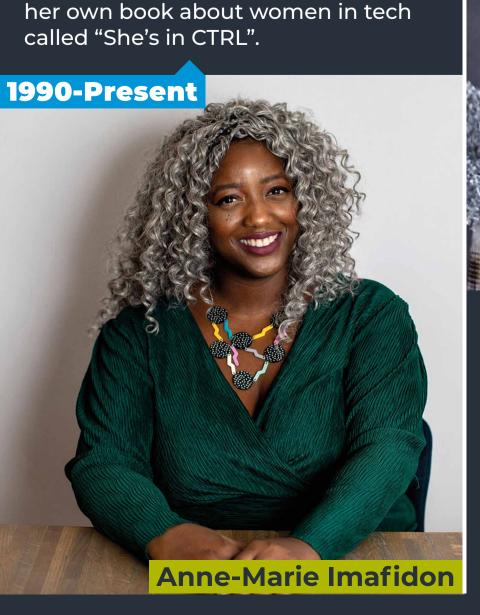
Tannie Liverpool is a professor at the University of Bristol. He studies hydrodynamics and how it might apply to new cancer treatments. He is involved in multiple initiatives to



Tanniemola B Liverpool Anne-Marie Imafidon was the youngest girl ever to pass A-level computing. She co-founded the social enterprise Stemettes in 2013 and hosts the Women Tech Charge podcast. She has previously been

co-presenter of the gameshow

Countdown and in 2022 released



Angela Tabiri Angela Tabiri is a mathematics lecturer based in Ghana. She founded an NGO called Femafricamaths which aims to inspire girls to study mathematics. She also organises Science Slam Ghana. She was named as one of UNESCO's Recommendations on Science and Scientific Researchers ambassadors