# Women in. Mathematics

eing recognised as the first tantial contribution to the







**BEST KNOWN FOR:** being the first woman to write a mathematics handbook. She was also the first woman appointed as a mathematics professor at a university.

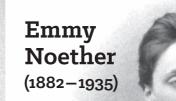
**BEST KNOWN FOR:** coining the term polytope, a four-dimensional convex solid and discovering six regular ones.



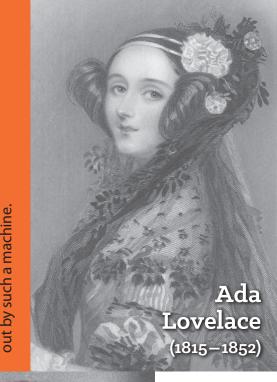


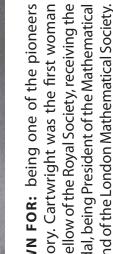
Mary Somerville

BEST KNOWN FOR: being a polymath who studied mathematics and astronomy. She was one of the two females who were elected as first female Honorary Members of the Royal Astronomical Society. The Somerville College of the University of Oxford is named in her honour.



née Fairfax (1780-1872)









Marie-Sophie

Germain

(1776–1831)



Vasilyevna Kovalevskaya (1850–1891)

earn a doctorate in pure mathematics and the first

woman to become a full professor of mathematics in

France. In addition to her expertise in fluid mechan-

ics and abstract algebra, she authored a work in the

Alicia 🦣 **Boole Stott** (1860–1940)



**BEST KNOWN FOR:** her work in abstract algebra and theoretical physics. Especially Noether's theorem and Noether's Ring, both for elementary particle physics and general relativity.

**Mary Lucy** Cartwright (1900–1998)

**BEST KNO** of chaos th becoming a Sylvester Me Association

Mary

Jackson

(1921-2005)

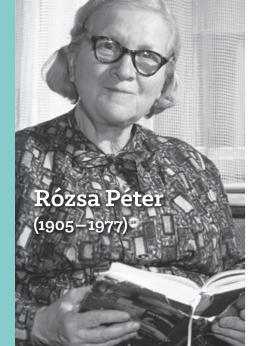


**BEST KNOWN FOR:** her work on experimental design in statistics. Cox became the first woman elected to the International Statistical Institute.

Gertrude

**Mary Cox** 

(1900–1978)





history of mathematics.



Robinson

1919 – 1985)

ds fc "Hu mul

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**Ruth Moufang** 

of geometry called Moufang planes.

(1905–1977)

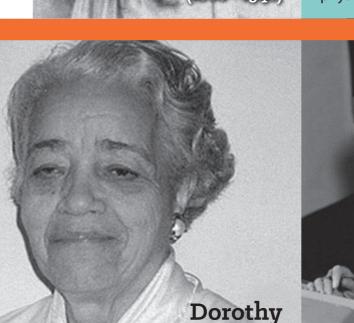
**BEST KNOWN FOR:** ground-breaking work on

non-associative algebraic structures, including the

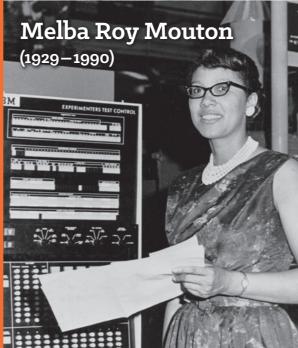
Moufang loops named after her and a new branch

**BEST KNOWN FOR:** being the only female practitioner of Banburismus (i.e. a cryptanalytic process developed by Alan Turing during World War II) during her recruitment at the Government Code and Cypher School. She became the deputy head of her section afterwards.

**BEST KNOWN FOR:** her work on partial differential equations, fluid dynamics, and the convergence of a finite difference method for the Navier-Stokes equations. She was in the shortlist for the Fields Medal in



Dorothy Vaughan (1910 - 2008)







# **The Women Computers** of NASA

A group of women mathematicians, human computers and later programmers at NACA, NASA and Langley Research Centre who contributed considerably to the American Space race.

Starting with 5 female mathematicians on staff in 1935, in 1946 there were 400.

### **NOTABLE MEMBERS ARE:**

Dorothy Vaughan, Katherine Johnson, Mary Jackson, Melba Roy Mouton, and Christine Darden.



Olga Aleksandrovna Ladyzhenskaya (1922-2004)





1922 - 1999

Collaborati I the John v

biomathematics with published research ar Co-Founder of the Co She received several h Neumann Prize.

FOR:

**BEST KNOWN** 

(1927-2014)

María Wonenburger

Phyllis

Nicolson

née Lockett

# **B**

Claire

Voisin

(b. 1962)

Shakuntala Devi

(1929-2013)

1958.

Marina

Ratner

(1938-2017)

Evseevna

Nancy Jane

Kopell

(b. 1942)

of the Légion d'honneur.

the fou σ BEST KNOWN FOR: geometric analysis.

Ingrid Daubechies (b. 1954)

BEST KNOWN FOR: her work in using mathematical methods to develop image processing techniques. Her name is associated with wavelets which are used in the JPEG 2000 standard. She received several recognitions and awards, including Princess of Asturias Award (in 2020) for Technical and Scientific Research.

algebraic ( its applicat **ST KNOWN FOR:** her work in y especially Hodge theory and i ncrete classical problems. BEST etry e



**BEST KNOWN FOR:** being the first Iranian to receive the Fields Medal and the only woman to date. Her research topics included Teichmüller theory, hyperbolic geometry, ergodic theory, and symplectic geometry.

**BEST KNOWN FOR:** her work on ergodic theory.

She proved theorems concerning unipotent flows on

homogeneous spaces, known as Ratner's theorems,



The project was developed and coordinated by Ms. Silvy Hendriks, Dr. Houry Melkonian, and Prof. Maria Vlasiou. Additional contributions were made by Dr. Tom Ritchie and the following students of the University of Exeter: Amber Ellis, Sophia Jaffer, Anila Navaratnam, and Sophie Peel.

## Design by Jana Kleineberg | kleineberg.co.uk

Idun Reiten (b. 1942) **BEST KNOWN FOR:** her work in representation theory. She received multiple awards and recog-

nitions for outstanding research. In 2014, She was

appointed as commander of the Order of St. Olav by

UNIVERSITY OF

the Norwegian King for her work in mathematics.



