## **EARLY FEMALE MATHEMATICIANS**



Hypatia 370 - 415

Hypatia was the first woman to make a substantial contribution to the development of mathematics. She was killed by a fanatical Christian sect.



Maria Cunitz 1607 - 1664

Maria Cunitz was an astronomer who published simpler versions of Kepler's work



Elisabetha Koopman 1647 - 1693

Elisabetha Koopman was the wife of the Polish astronomer Johannes Hevelius and helped him with his observations.



Émilie du Châtelet 1706 - 1749

Émilie du Châtelet was a French noblewoman who became important to mathematics as the translator of Newton's Principia.



Laura Bassi 1711 - 1778

Laura Bassi was an Italian physicist and one of the earliest women to gain a professorship in an Italian university.



Maria Agnesi 1718 - 1799

Maria Agnesi was an Italian mathematician who is noted for her work in differential calculus. She discussed the cubic curve now known as the 'witch of Agnesi'.













1815 - 1852



**Florence Nightingale** 1820 - 1910

Florence Nightingale is best known for her work as a nurse, but she was also a pioneering statistician.



who was married to George Boole. She wrote a number of books on mathematical education.



Elizaveta Litvinova 1845 - 1919

Elizaveta Litvinova was the second woman to receive a Ph.D. in mathematics. A competent mathematician, she was denied the possibility to teach and research at high levels in Russia.



**Christine Ladd-Franklin** 1847 - 1930

Christine Ladd-Franklin was an American psychologist, logician and mathematician who was one of the earliest women to work in American universities.



1850 - 1891

Sofia Kovalevskaya was a Russian born mathematician who made valuable contributions to the theory of differential equations. She finished her career in Sweden.



**Ellen Hayes** 1851 - 1930

Ellen Hayes was an American mathematician and astronomer. She was one of the first female American professors.













**Charlotte Angas Scott** 1858 - 1931

Charlotte Angas Scott studied at Cambridge but

was not allowed to take her degree. After graduate

work at Cambridge she became the first Head of

Mathematics at Bryn Mawr College in Pennsylvania

USA.



1860 - 1940

Alicia Boole Stott was a daughter of George Boole who made some discoveries in four-dimensional geometry.



Winifred Edgerton Merrill 1862 - 1951

Winifred Edgerton was the first woman to receive a

degree from Columbia University and the first

American woman to receive a PhD in mathematics.



**Flora Philip** 1865 - 1943

of the Edinburgh Mathematical Society.







Grace Chisholm Young was an English mathematician who together with her husband William Young wrote many mathematical articles and several books.

Philippa Fawcett 1868 - 1948

In 1890 Philippa Fawcett came top in the Mathematical Tripos Examinations at Cambridge, being placed "ahead of the first Wrangler".



Henrietta Swan Leavitt 1868 - 1921

Henrietta Leavitt was an American astronomer who discovered the relation between the luminosity and the period of Cepheid variables. This was a vital step in measuring the distance to remote galaxies.



1868 - 1947

Annie Scott Dill Maunder was a Northern Irish astronomer and mathematician who was the first to find evidence of the movement of sunspot emergence from the poles toward the equator over the sun's 11-year cycle.



Agnes Baxter was a Canadian mathematician who became only the second Canadian woman to be awarded Ph.D. in Mathematics and the fourth in North America.



**Emmy Noether** 1882 - 1935

**Emmy Noether** is best known for her contributions to abstract algebra, in particular, her study of chain conditions on ideals of rings.



**Euphemia Lofton Haynes** 1890 - 1980

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



Hilda Geiringer 1893 - 1973

Hilda Geiringer was an Austrian-born mathematician who worked in Statistics and Mechanics. She was married to Richard von Mises.







Nina Bari

1901 - 1961









Pelageia Polubarinova Kochina 1899 - 1999

Pelageia Kochina was a Russian applied mathematician, known for her work on fluid mechanics and hydrodynamics.

## Mary Cartwright was the first woman mathematician to be elected to the Royal Society. She became Mistress of Girton College, Cambridge.

1900 - 1998

Nina Karlovna Bari was a Russian mathematician known for her work on trigonometric series.



Marie-Louise Dubreil-Jacotin 1905 - 1972

Marie-Louise Dubreil-Jacotin was a French mathematician who worked in fluid mechanics and abstract algebra. She was the second woman in France to obtain a doctorate in pure mathematics.



**Emma Lehmer** 1906 - 2007

Emma Markovna Lehmer was a Russian-born mathematician known for her work on reciprocity laws in algebraic number theory.

Olga Taussky-Todd was an Austrian born mathematician who worked on algebraic number theory and matrix theory.

For more Female Mathematicians, go to: https://mathshistory.st-andrews.ac.uk/Biographies/category-female/

