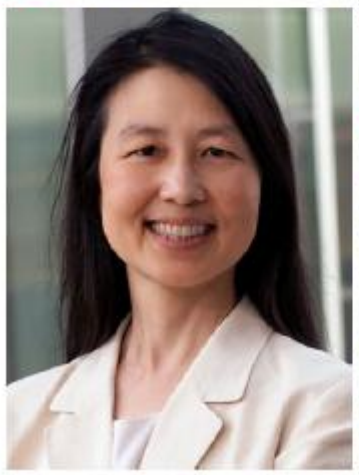
10 Female Computing Stars Through the Decades












10 Female Computing Stars Through the Decades

1840s

Ada Lovelace points out that once other things, like music, are represented by numbers computers can be much more than just calculators.



10 Female Computing Stars Through the Decades

1850s

Florence Nightingale
is the first person to combine lots of data with good ways of presenting all those numbers so the patterns can be seen. She successfully uses it to convince politicians to take action over deaths in hospital due to poor cleanliness.



10 Female Computing Stars Through the Decades

1940s

Dorothy Vaughan starts work at NACA (later NASA) as a human computer. Breaking down barriers, she becomes the first African-American manager and oversees the change to electronic computers. Her team's work underpin the design of aircraft and the space programme.



Vaughan Family

10 Female Computing Stars Through the Decades

1950s

Grace Hopper suggests programming should be done using english words rather than obscure codes or numbers, then writes the first compiler to make it a reality.



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1960s

Fran Allen sets out a clear foundation for the way compilers can improve programs written in high level languages, so that the resulting code is faster but does the same as the original. She wins a Turing Award.



10 Female Computing Stars Through the Decades

1970s

Karen Spärck Jones invents an algorithm to decide which documents are most relevant. Variations form the core of most search engines. Points out “Computing is too important to leave to men”.



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1980s

Barbara Liskov develops programming languages. Argus is the first to support writing distributed programs. CLU includes ideas that ultimately lead to object-oriented programming. She wins a Turing Award.



10 Female Computing Stars Through the Decades

1990s

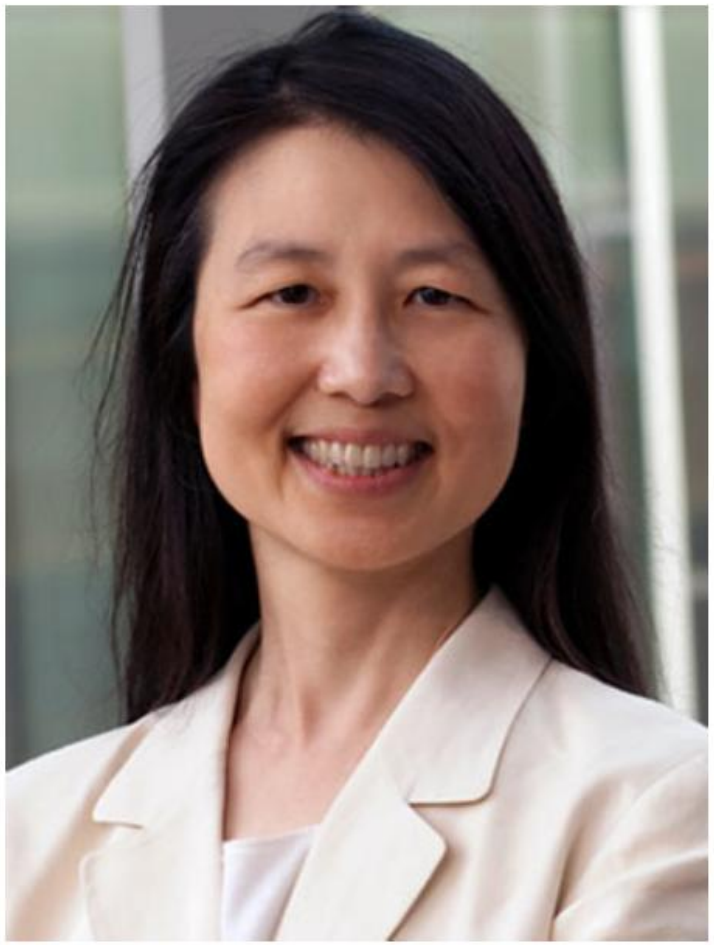
Hedy Lamarr receives the Electronic Frontier Foundation Pioneer Award. During WWII she co-invented frequency hopping: constantly jumping from one frequency to another. Not taken up till the 1960s, this underlies today's mobile technology.



10 Female Computing Stars Through the Decades

2000s

Jeannette Wing promotes the idea of computational thinking as the key problem solving skill set of computer scientists. It is now taught in schools worldwide.



10 Female Computing Stars Through the Decades

2010s

Shafi Goldwasser wins a Turing Award. She co-invented zero knowledge proofs: a way to show a claim being made is true without giving away any more information. This matters in the digital world to ensure people are honest without giving up privacy.



Weizmann Institute of Science

… and men too

Of course, men helped too!

The best Computer Science and innovation arise when the best people of whatever gender, sexuality, culture, ethnicity, and background work together.