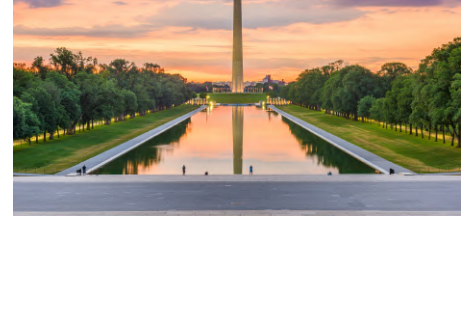


Women in Statistics: A History of Achievements

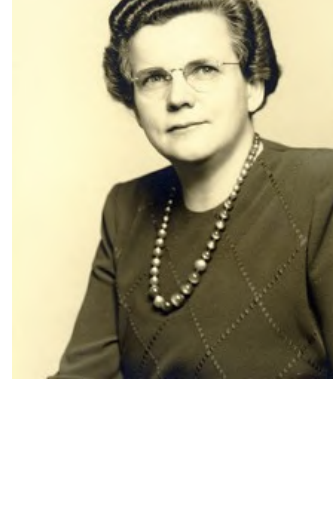
1858

Florence Nightingale, a pioneer in the use of statistics and their visual representation, is elected as the first female member of the **Royal Statistical Society (RSS)**.



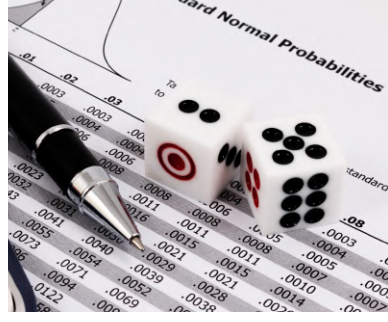
1944

Dr. Helen M. Walker, a distinguished educational researcher, becomes the first female president of the **American Statistical Association (ASA)**.



1949

Gertrude Cox becomes the first woman elected into the **International Statistical Institute**, authoring the influential reference work, ***Experimental Design***, with W. G. Cochran a year later.



1962

Dr. Florence Nightingale David (F. N. David) authors ***Games, Gods and Gambling***, a comprehensive history of probability and statistical ideas.



1971

Dr. Donna Brogan, an American statistician of biostatistical research expertise, founds the **Caucus for Women in Statistics**.

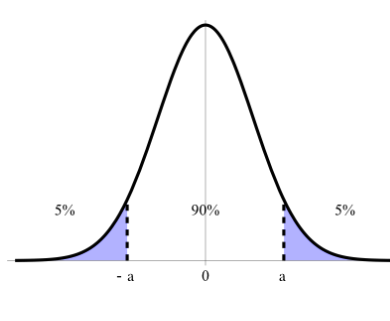


1975

Accomplished British statistician and civil servant **Stella Cunliffe** is elected as the first female President of the **Royal Statistical Society**.

1987

Dr. Maureen Tingley is the first woman to win the **Statistical Society of Canada's Pierre Robillard Award** for her thesis, ***Robust confidence intervals***.



1991

Dr. Agnes M. Herzberg, an internationally-acclaimed statistician, becomes the first female **President of the Statistical Society of Canada**. She will later become the first female recipient of the **Distinguished Service Award** in 1999.



Esteemed British statistician **Professor Denise Lievesley** is appointed Director of Statistics at **UNESCO**, where she founded the **UNESCO Institute for Statistics (UIS)**.

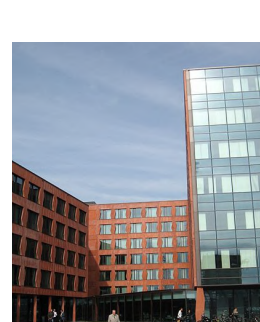


2001

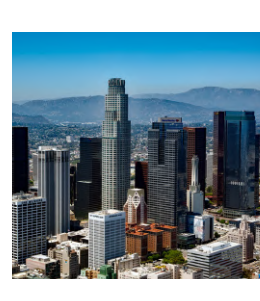
COPSS establishes the **F. N. David Award** to recognise female statisticians who exemplify the contributions of F.N. David.

2007

Professor Denise Lievesley is elected as the first female president at the **International Statistical Institute** after 122 years of male leadership.



Women in Research (WiRE) is founded as an informal networking group for women in the Los Angeles research community. Today, WiRE holds events globally.

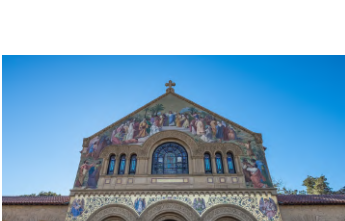


2009

Dr. Lurdes Inuoe co-authors ***Decision Theory: Principles and Approaches*** with Giovanni Parmigiani, winning the **International Society for Bayesian Analysis' DeGroot Prize** the same year.

2014

Dr. Madhumita (Bonnie) Ghosh-Dastidar authors ***Distance to Store, Food Prices, and Obesity in Urban Food Deserts***, published in the **American Journal of Preventive Medicine** — now one of the journal's most downloaded papers.



2015

Stanford University holds the inaugural **Women in Data Science Conference**.



AMA publishes ***The Rise of Women in Statistics & Data Science***, a special issue of its magazine, **Chance**.

2019

The RSS launches the **Women in Statistics and Data Science** special interest group with aims to increase the visibility of women in statistics and data science careers.



Two **COPSS** lectureships named after women are established — the **Elizabeth L. Scott Lecture** and the **Florence N. David Lecture** — to be given at the annual **Joint Statistical Meetings (JSM)**. The first F. N. David Lecture was given by **Professor Susan Ellenberg** at the **JSM2019** in Denver, Colorado.



2020

The **Bureau of Labor Statistics' Occupational Outlook Handbook** suggests that the number of statisticians will grow by **27% by 2022**. With a **2014 Washington Post** article reporting that over **40% of statistics degrees are now being undertaken women**, we can expect to see an even larger female presence in the future. Identifying the factors driving women's strengthening presence in statistics will play a vital role in helping build women's presence in other research roles, where there is still a limited presence.

By actively ensuring that research environments are providing women with adequate opportunities to prosper, this growth will hopefully extend across the entire research community. The theme of this year's **International Women's Day, #EachforEqual**, serves a powerful reminder that we can each do our part to promote equality in the research community by actively supporting initiatives that both enrich the potential of women in research and acknowledge their ongoing achievements.



International Women's Day
#IWD2020 #EachforEqual

Sources
https://www.rss.org.uk/RSS/About/About_the_RSS/RSS/About_the_RSS/About_top.aspx?hkey=679e724a-2af6c-4325-922b-8ac53b9b696a; <http://www.datascope.be/sog/SOG-Chapter5.pdf>; <https://www.amstat.org/ASA/Giving/HWS.aspx>; <https://www.agnesscott.edu/riddle/women/cox.htm>; David, F. (1962). Games, gods and gambling: The origins and history of probability and statistical ideas from the earliest times to the Newtonian era. 1st ed. London: Charles Griffin & Co.; <https://www.sph.emory.edu/faculty/profile/index.php?FID=126>; https://www.rss.org.uk/RSS/About_the_RSS/About_sub/President_and_vice_presidents/Past_presidents.aspx?WebsiteKey=bc86df55-c2ae-4d73-8450-66ecc988ded&hkey=eec573c6-b10e-4027-8846-9802a07a1d28 <https://ssc.ca/en/awards/maureen-tingley-laureat-prix-pierre-robillard-1987>; https://books.google.com.au/books?id=1H3SBQAAQBAJ&pg=PA207&redir_esc=y#v=onepage&q&f=false; <https://www.gtc.ox.ac.uk/about/fellows/denise-lievesley/>; <https://community.amstat.org/copss/awards/presidents>; <https://www.linkedin.com/company/women-in-research-wire/about/>; <https://community.amstat.org/copss/awards/frn-david/>; <https://online.library.wiley.com/doi/full/10.1002/9781118445112.stat07915>; <https://ssc.ca/en/awards/2013/nancy-reid-prix-pour-services-insignes-2013>; <https://bayesian.org/project/degroot-prize/>; <https://chance.amstat.org/2014/11/women-in-statistics/>; [https://www.aljmonline.org/article/S0749-3797\(14\)00370-5/abstract](https://www.aljmonline.org/article/S0749-3797(14)00370-5/abstract); <https://magazine.amstat.org/blog/2019/03/01/madhumita-bonnie-ghosh-dastidar/>; <https://news.stanford.edu/2015/11/12/women-data-sciences-111215/>; <https://www.tandfonline.com/doi/full/10.1080/9781118445112.stat07915>; https://www.rss.org.uk/RSS/Get_involved/Special_interest_groups/Women_in_Data_Science_and_Statistics/RSS/Get_involved/New_Special_interest_Group/Women_in_Data_Science_and_Statistics.aspx; <http://uis.unesco.org/en/topic/women-science>; Image 10: Nancy Reid Royal Society by Duncan Hall under CC BY-SA 3.0 AU; Image 12: 'Leidschenveen CBS' by Smiley toerist under CC BY-SA 3.0 AU; https://www.washingtonpost.com/local/women-flocking-to-statistics-the-new-hot-high-tech-field-of-data-science/2014/12/19/f3e2e486-62ed-11e4-9fdc-d43b053ecb4d_story.html; <https://fow.com/articles/2015/02/10/growth-in-data-statistics.aspx>