

Not Just for the Boys: Why We Need More Women in Science

Athene Donald

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In this insightful exploration of gender imbalance, Athene Donald, a distinguished physicist and champion for gender equality, presents a compelling case for why science needs more women and why society at large benefits from their increased participation. The book offers an insightful exploration of the persistent gender imbalance in the scientific community, not only recounting the obstacles women face in scientific careers, but also proposing actionable solutions to dismantle the barriers that perpetuate inequality.

The book is structured in a manner that combines personal anecdotes, historical context and statistical evidence. Donald begins by recounting her own experiences as a woman in physics, an environment historically dominated by men. Her personal journey serves as a lens through which readers can view the broader issues women face in science, including implicit bias, stereotypes and structural barriers. By sharing her experiences and those of other female scientists, Donald adds a human touch to the discussion, making the challenges feel real and immediate rather than abstract.

A significant strength of the book lies in its historical analysis of women's contributions to science, which have often been marginalised or forgotten. Donald delves into the stories of pioneering women like Marie Curie, Rosalind Franklin and Ada Lovelace, highlighting both their achievements and the hurdles they had to overcome. This historical perspective is not just a celebration of past achievements, but also a critical examination of how the gender biases of the past still resonate today. It raises important questions about the narratives that have been constructed around scientific discovery and innovation, and who gets to be considered a 'great scientist'.

Donald goes beyond identifying the symptoms of gender disparity to probe the underlying causes. She discusses cultural factors, such as the gendered socialisation of children, the 'leaky pipeline' problem where women drop out of scientific careers at various stages and the glass ceiling that prevents many from reaching leadership positions. She also addresses the role of implicit bias in hiring, evaluation and the awarding of grants, offering evidence from psychological and sociological studies to support her claims. This multifaceted approach makes her arguments both thorough and convincing, appealing to readers from diverse backgrounds, including scientists, educators, policymakers and students.

One of the book's most valuable contributions is its practical recommendations for fostering gender equality in science. Donald argues for systemic changes in policies, such as improving parental leave and flexible working conditions, as well as

cultural shifts to challenge the stereotypes that discourage girls from pursuing science. She also emphasises the importance of mentorship and sponsorship in helping women advance in their careers. Rather than merely criticising the status quo, Donald provides a roadmap for change, making the book a call to action rather than a lamentation of inequality.

However, some readers may find that the book occasionally lacks depth when discussing the intersectionality of gender with other factors such as race, socioeconomic background and disability. While Donald does acknowledge these aspects, the primary focus remains on gender in isolation, potentially limiting the book's applicability to all underrepresented groups in science. A more inclusive approach could have enriched the discussion by addressing how multiple forms of discrimination intersect to create unique challenges for women from diverse backgrounds. Despite this limitation, *Not Just for the Boys* is an important and timely contribution to the ongoing conversation about gender equality in science. It challenges readers to think critically about the structures and attitudes that have kept science predominantly male and underscores the benefits of a more diverse scientific community. Donald's passion for the subject and her expertise in the field shine through, making this book an inspiring and thought-provoking read.

In conclusion, Athene Donald's work is scientifically rigorous, yet accessible and makes a compelling argument for why gender diversity in science matters. It is not just a book for women or those in scientific fields; it is a must-read for anyone interested in the future of innovation, equality and the advancement of knowledge. The book not only highlights the problems but also lays out a path forward, encouraging readers to be part of the solution in creating a more inclusive and equitable scientific community.

Rehan Shah MIMA
Queen Mary University of London

