

Presentation by

Dr Laura Fogg-Rogers

Catch 22

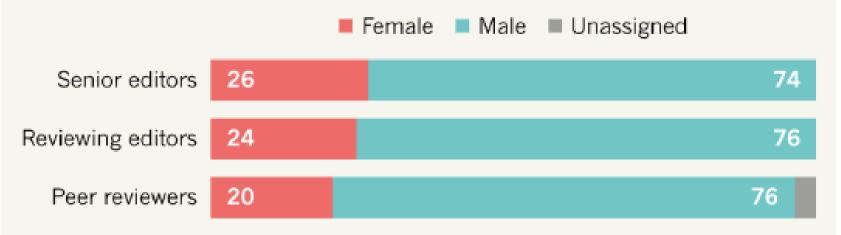
Improving female researcher representation in peer review and publishing

24/02/2020 Research to Reader Conference

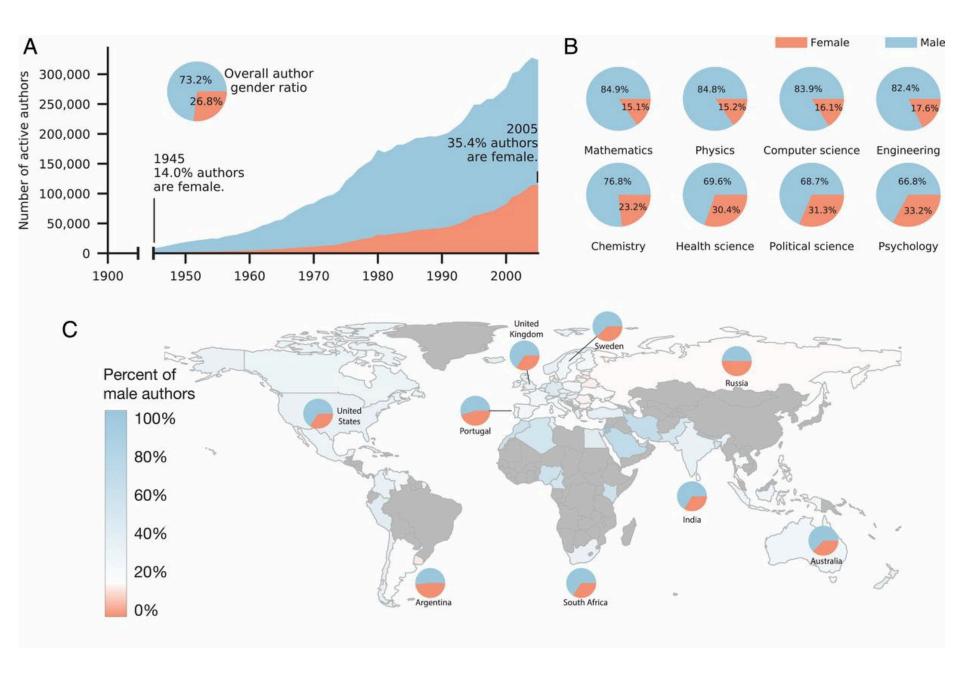


PEER-REVIEW PATTERNS

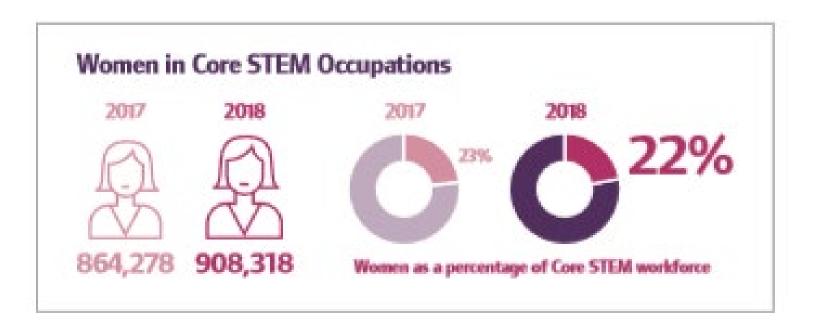
In an analysis of thousands of submissions to the journal eLife, only one-fifth of peer reviewers, and about one-quarter of editors, were women.

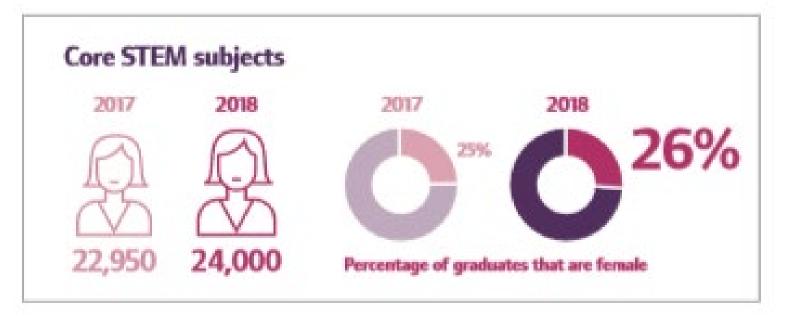


The analysis also found that all-female reviewing panels accepted more manuscripts with female last authors than did all-male panels.



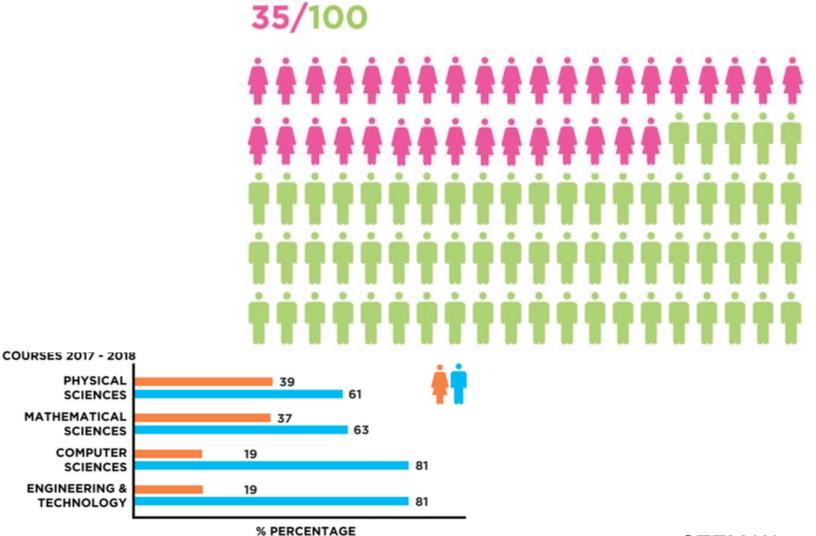
Huang et al 2020 https://www.pnas.org/content/early/2020/02/14/1914221117

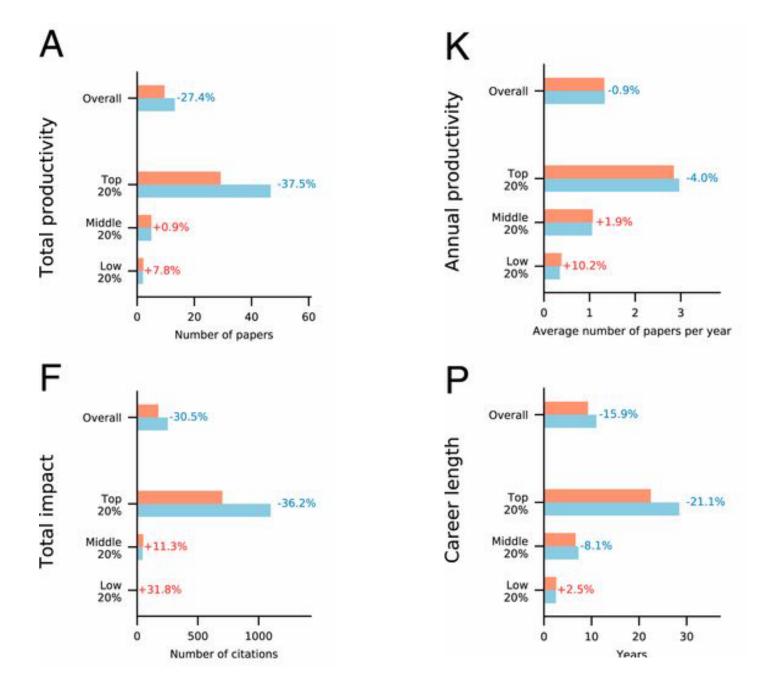




Core STEM subjects - Female students

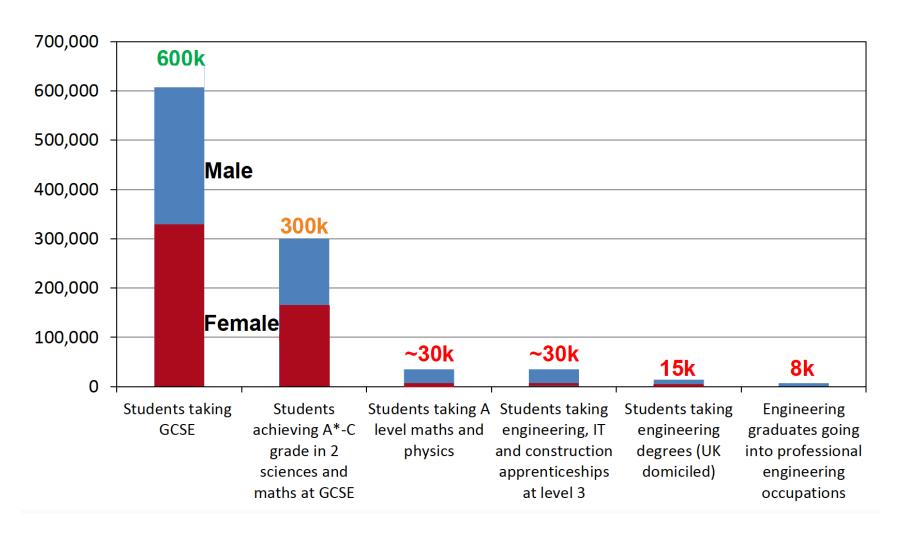
2017/18 Number of female students - 112,720 - 35%





Huang et al 2020 https://www.pnas.org/content/early/2020/02/14/1914221117

'The Leaky Pipeline'





Reasons why we should care about who does Science, Technology, Engineering and Mathematics (STEM):

- 1) Utilitarian (sheer numbers)
- 2) Equity (making the workplace environment welcoming)
- 3) Democratic (widening which problems are studied/solved)

Fogg-Rogers, L. (2017)
Does being human influence
science and technology?

Journal of Science
Communication
https://jcom.sissa.it/archive/16/04/JCOM
_1604_2017_C01/JCOM_1604_2017_C
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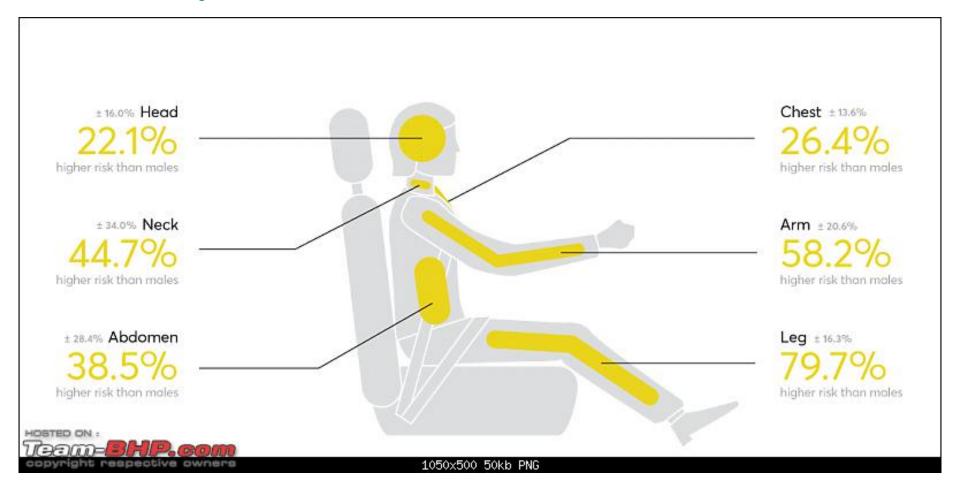




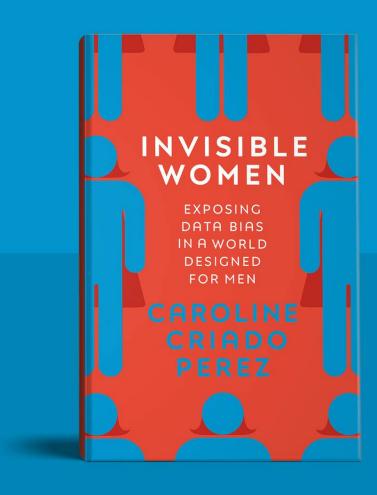












Why are there fewer women publishing in academia?



CAREER

However...

The analysis also found that all-female reviewing panels accepted more manuscripts with female last authors than did all-male panels. All-male reviewers All-female reviewers Mixed-gender reviewers 80 Accepted submissions (%) 60 40 20 2,211 520 1,952 21 56 735 Female Male Female Male Female Male Gender of last author onature

Women in Leadership

How blind auditions help orchestras to eliminate gender bias

To get more women into their ranks, many orchestras use blind auditions where musicians perform behind a screen. Could we replicate this in business?

Curt Rice

Mon 14 Oct 2013 12.00 BST













▲ The number of female musicians in orchestras has increased since blind auditions became commonplace Photograph: Lebrecht Music And Arts Photo Li/Alamy

Bias cannot be avoided, we just can't help ourselves. Research shows that we apply different standards when we compare men and women. While explicit discrimination certainly exists, perhaps the more arduous task is to eliminate our implicit biases. The ones we don't even realise we have

Understanding unconscious bias

17 November 2015



https://royalsociety.org/topics-policy/publications/2015/unconscious-bias/



Equality



The assumption is that everyone benefits from the same supports. This is equal treatment.

Equity



Everyone gets the supports they need (this is the concept of "affirmative action"), thus producing equity.

Justice



All 3 can see the game
without supports or
accommodations because
the cause(s) of the
inequity was addressed.
The systemic barrier has

The systemic barrier has been removed.



Catch 22



How can we generate a solution which is not inherent in the problem?









Advance HE's Athena SWAN Charter covers women (and men where appropriate) in:

- academic roles in STFMM and AHSSBI
- professional and support staff
- trans staff and students

In relation to their:

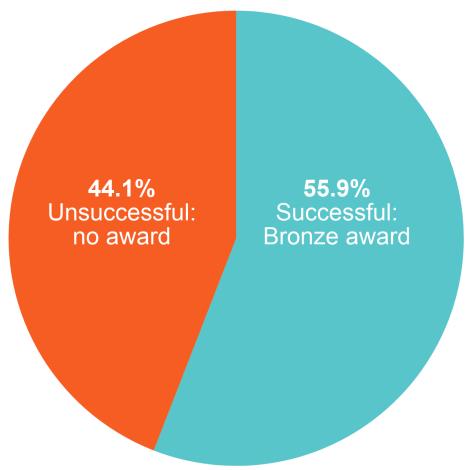
Research

- representation
- progression of students into academia
- journey through career milestones
- working environment for all staff



Submissions and success rates for Athena SWAN Bronze awards









These visuals present Athena SWAN data and refer to UK awards only. Data are presented for all rounds since the introduction of the Post-May 2015 criteria (November 2015 round results). Data include both Pre-May and Post-May criteria awards and submissions. Information correct as of 12 October 2018.

Examples of structural barriers in peer review



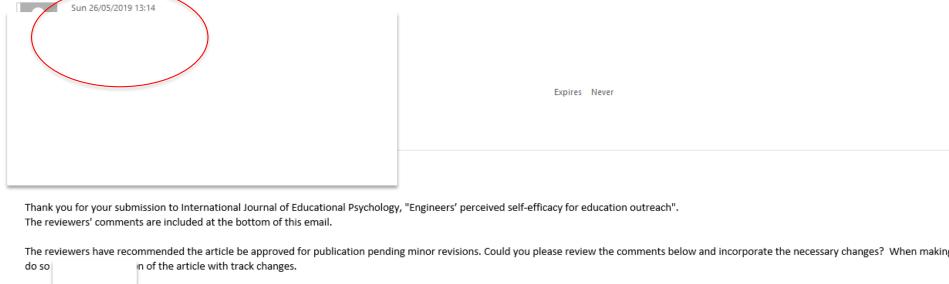
Dear Laura and Laura

Here are the proofs of your article that will be included in the (very late-running) December issue of

in the second batch of articles arising from the

There are only a few minor queries for you. I would be very grateful if you could reply by tomorrow, Tuesday 24 December. Apologies for the short notice.

Examples of structural barriers in peer review



Once you have introduced all the suggestions and have a reviewed version of your paper, please send it again through the online system journal. If changes are made properly, your article will be included 2019 issue of IJEP.

Please, submit a revised version of your manuscript no later than June the 2nd, 2019.

Please do not hesitate to contact us for further queries,

- No awareness of holidays
- Short lead-times
- Expectations of paid responsibilities with no pay!
- No allowance for part-time hours or weekends ©

Tackling structural barriers in peer review

- Unpaid work
- Short time-scales
- Lack of training
- Unclear guidelines
- Unclear progression opportunities

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Tackled by...?

- Audit of male/female contributions
- Peer review remittance
- Longer time-scales, or agreed by negotiation
- Training in peer review for researchers
- Guidelines on reviewing