



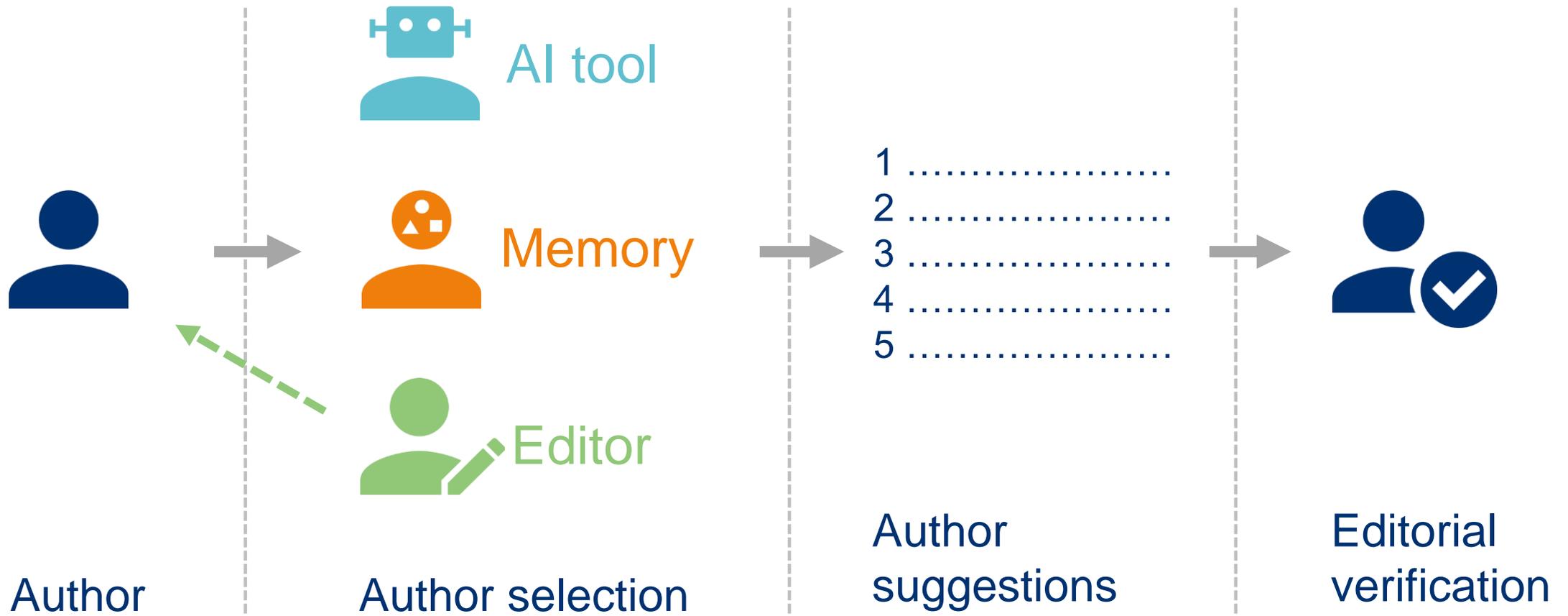
Diversity and inclusion in peer review and beyond

Michael Markie, F1000 (@mmmmarksman)
10 September 2018

#PeerReviewWeek18

WOR peer review selection model

Authors control the selection of reviewers suggested for peer review



How we collected the data (and its limitations)



Returns the probability of whether a first name belongs to someone who is male or female.

To prevent coding more gender-neutral names to one gender or another, we chose a cut-off of 70% certainty that a name was male or female.

For the unknown 30%, where possible, we identified gender through looking for pronouns (he/she) on biography pages.



Three months after a paper has completed peer review, if a suggested/invited referee doesn't provide a review, then identifying information (name, affiliation, email address) is deleted.

WOR is a young publication and so the size of the dataset is relatively small compared to similar studies by other publishers.

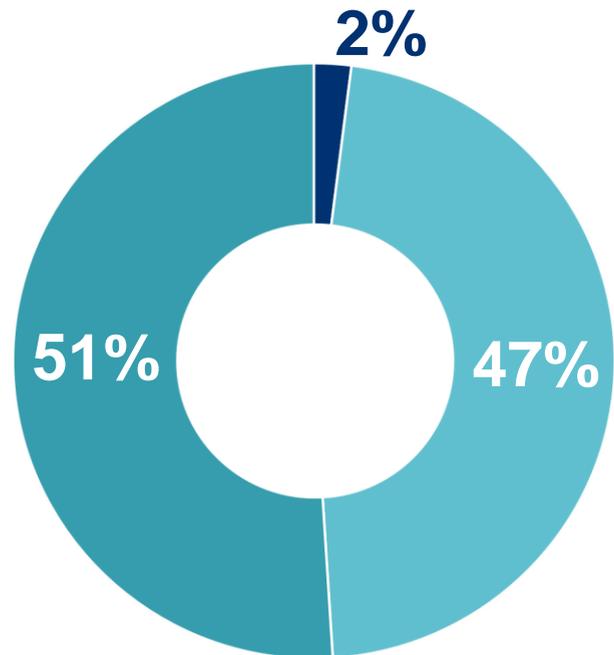
Gender diversity in peer review on WOR

Key findings:

- Author selected peer review provides comparable gender balance to other publisher studies (~25-35% female reviewers).
- There is little difference in gender balance when comparing author suggestions, editorial suggestions and algorithmic suggestions.
- Male authors suggest a higher % of male reviewers, while female authors suggest a higher % of female reviewers – comparable to other publisher studies.

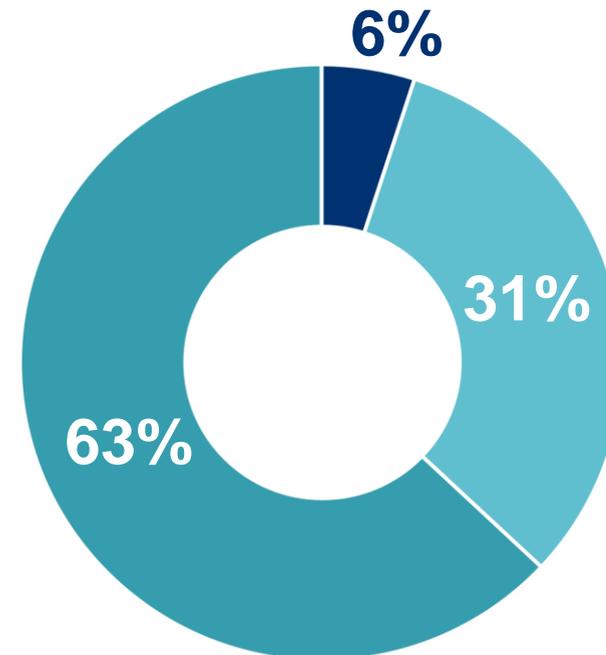
Overall gender balance on WOR

Gender of submitting authors



Total submitting authors: 258

Gender of referees

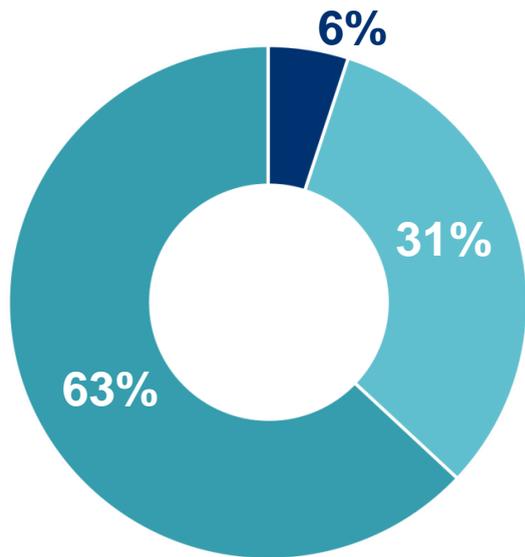


Total suggested referees: 1908



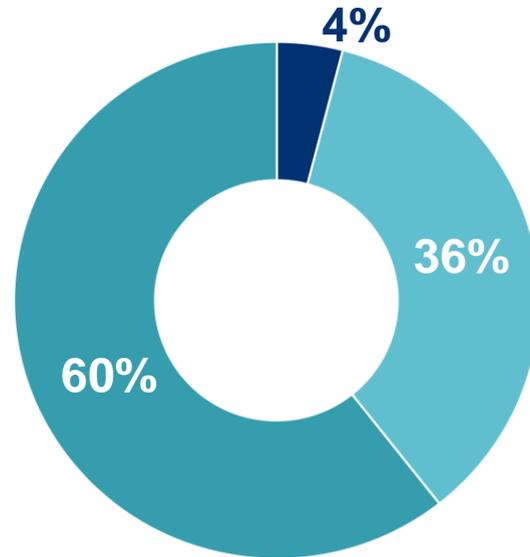
Gender balance of author-suggested referees

Gender of author-suggested referees



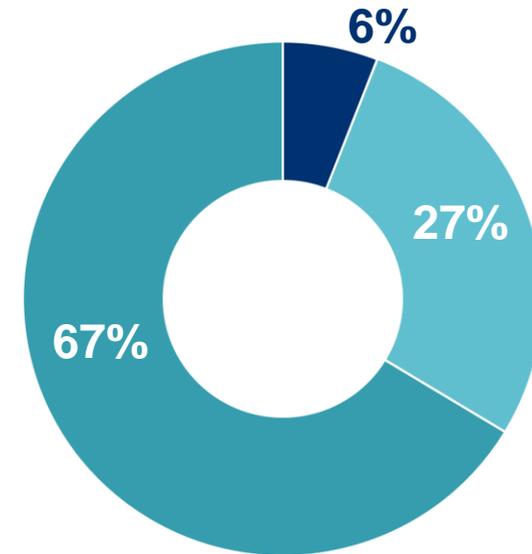
Total referees suggested by authors: 1545

Gender of referees suggested by a female author

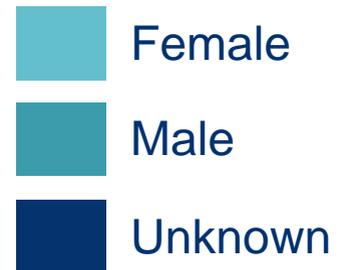


Total referees suggested by female authors: 749

Gender of referees suggested by a male author

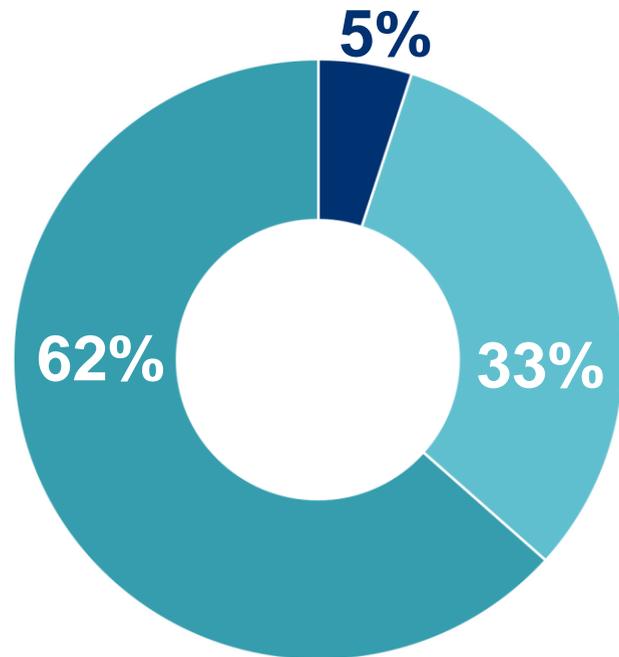


Total referees suggested by male authors: 743



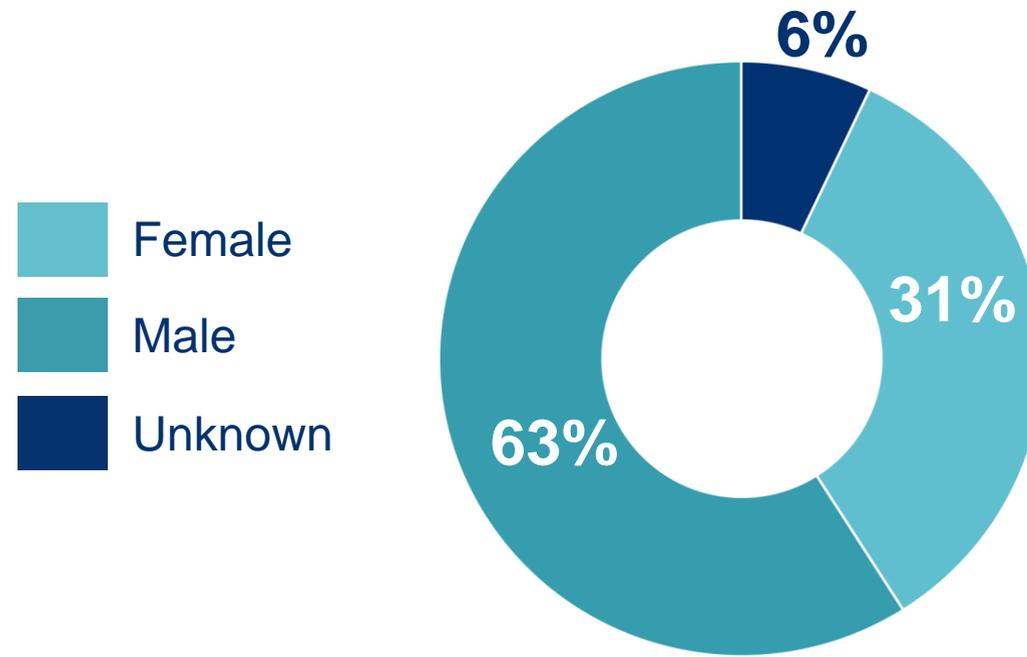
Gender balance of AI and editor suggested referees

Gender of editor-suggested referees



Total referees suggested by editors: 183

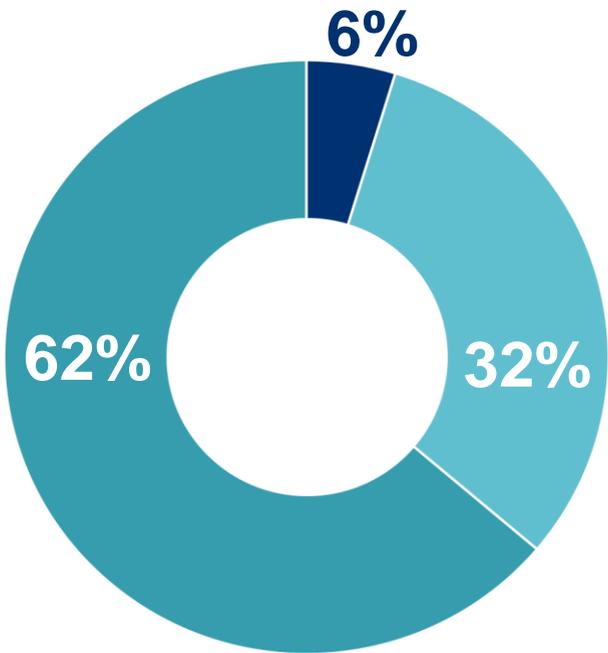
Gender of referees suggested by the algorithm



Total referees suggested by the tool: 329

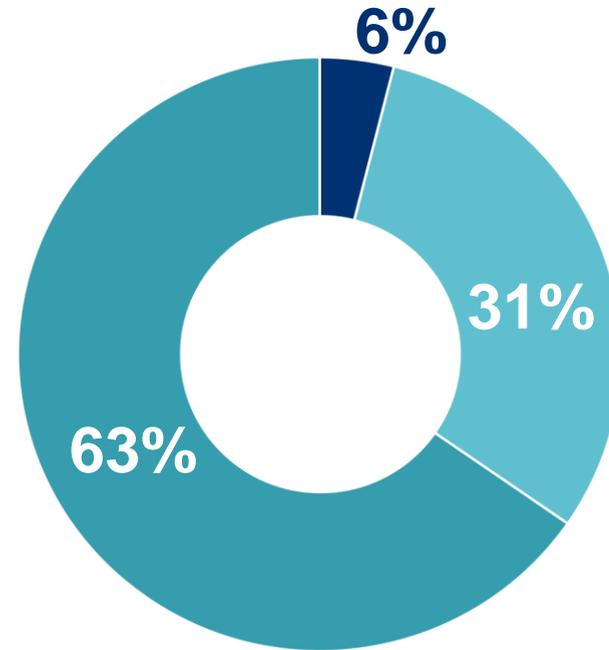
Gender balance of invited and published referees

Gender of invited referees

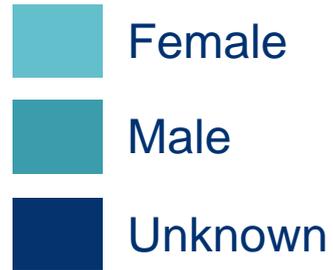


Total referees invited: 1625

Gender of published referees

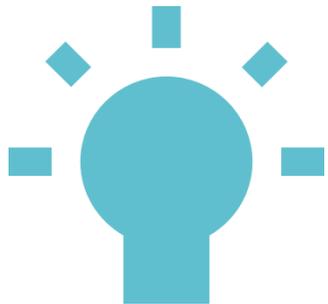


Total referees published: 599



Improving our diversity and inclusion in peer review

- **Be more explicit about diversity and inclusion on our finding referee guidelines and My Referee pages.**
- **Be more proactive in diversifying our reviewer pool.**
- **Collect information on gender and ethnicity on My Pages.**



Happy to hear more ideas on how we can improve!
Let us know/get in touch –
info@wellcomeopenresearch.org.



Diversity & inclusion at Wellcome

Gemma Tracey, Wellcome
10 September 2018

[#PeerReviewWeek18](#)



MORE THAN **THREE QUARTERS** OF PROFESSORS WERE MEN

76.9% of UK professors were men

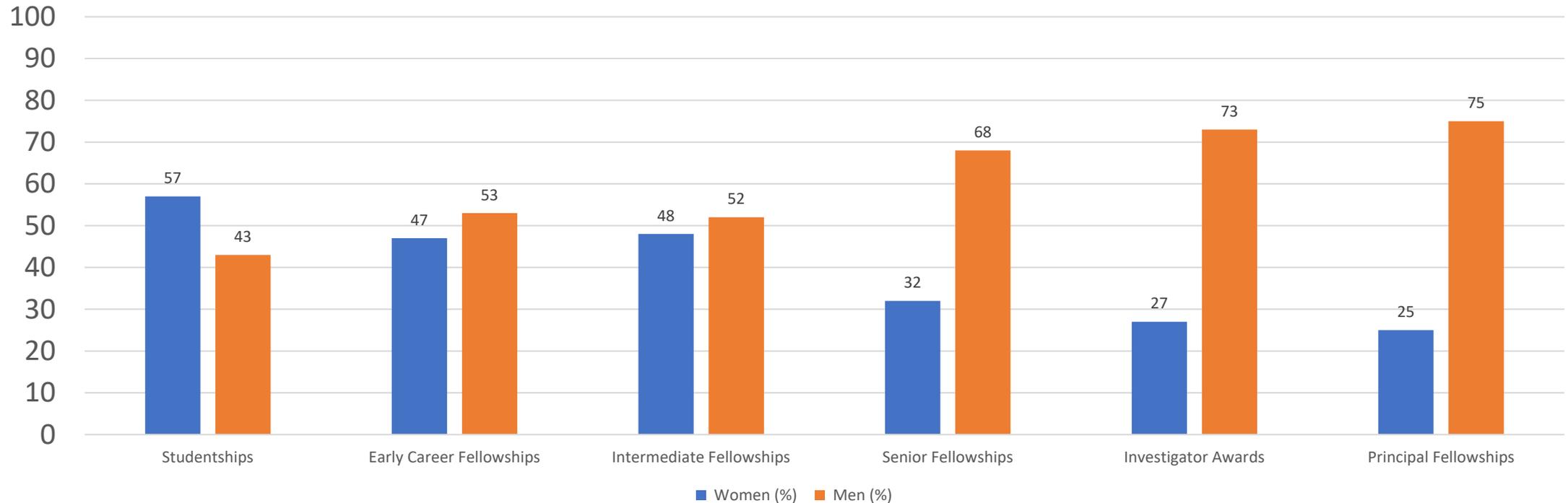
23.1% of UK professors were women

In science, engineering and technology (SET) subjects, 80.7% of professors were men. In non-SET subjects, 71.0% of professors were men.

12: UK professors by gender, 2014-15

Wellcome grant funding

Wellcome grants 2016-17: gender profile



Diversity and inclusion at Wellcome

£12.5m

We are missing out on talented people with great ideas. We want to change this because it's the right thing to do, and vital to meeting our mission to improve health for everyone

5 years

- Diversity and inclusion is one of Wellcome's strategic priorities
- The work isn't entirely new, but the strategic focus is
- We can't deliver on our ambition **to improve health for everyone by helping great ideas to thrive** if we don't take D&I seriously
- We have a responsibility to use our influence to speed up progress

Our approach



- More than a focus on women in science
- No silver bullet
- Removing barriers & incentivising leadership
- 3 programmes: Wellcome, Society & Science and Research

What have we done so far?



- Commissioned & published research into diversity challenges
- Established a steering group to advise on our work
- Funded minority researcher networks and events
- Partnered with the Brilliant Club
- Launched Research Enrichment Scheme

Research Enrichment Scheme

Aim: To provide additional funding to help Wellcome grant holders to trial new approaches to diversity and inclusion

Examples of what we expect to fund:

- Considering diversity at the planning stage
- Supporting underrepresented groups in specific fields
- Organising accessible conferences



What's next for D&I at Wellcome?



Thank you

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