



Role of HEI's in Gender Equality

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26th November, 2021

SDG 5

- Equality
 - status, rights, opportunities
- Empowerment
 - authority, strength, confidence

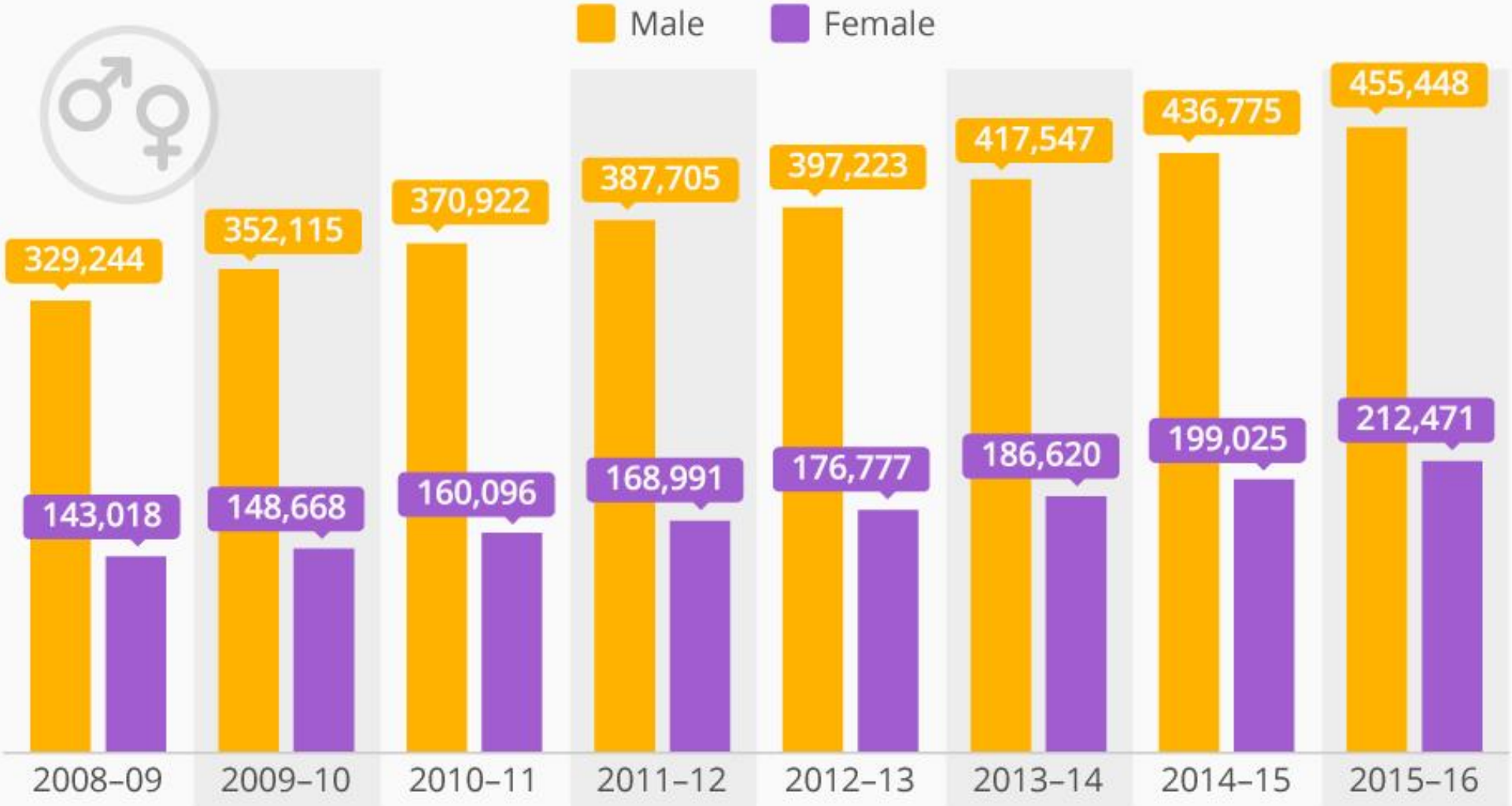
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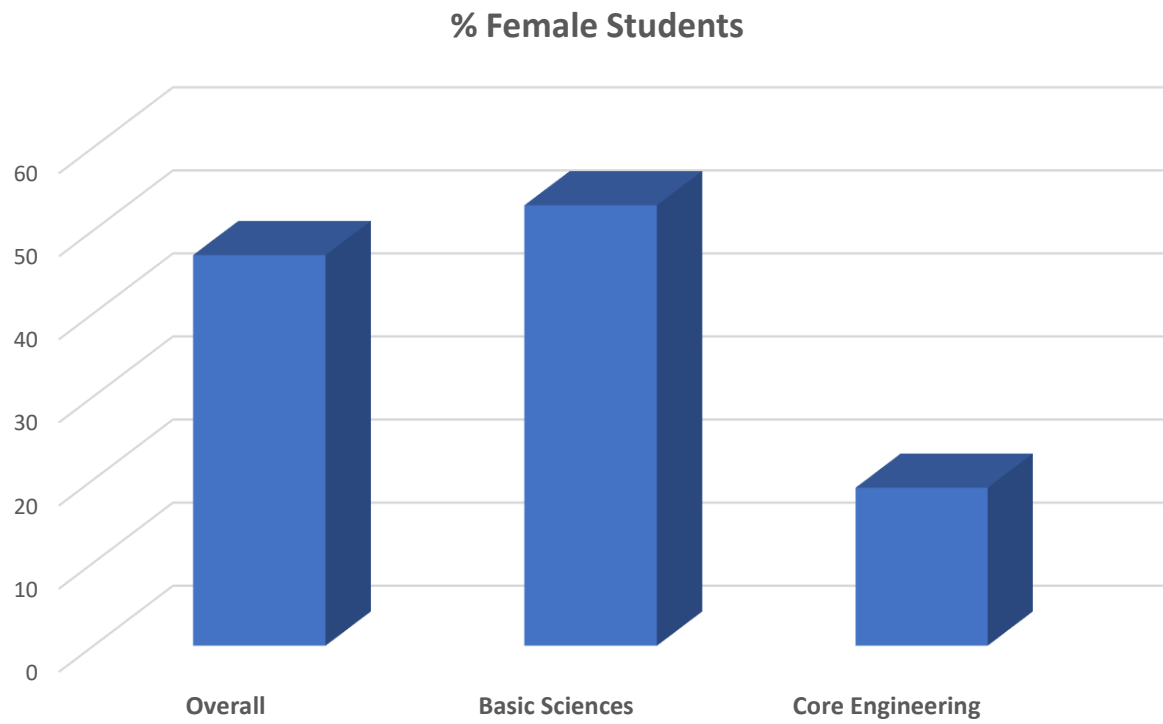
GENDER EQUALITY



Steady Rise for Women in STEM but Gender Gap Remains

Number of STEM degrees and certificates awarded in the U.S. by gender*





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- STEM teaching methods foster a competitive learning environment that is not favorable to girls (Samson, 2014, & Schulze & van Heerden 2015).
 - Studies show that women perform better in a cooperative learning environment (Leaper, 2015; LaCosse, Sekaquaptewa, & Bennett, 2016).



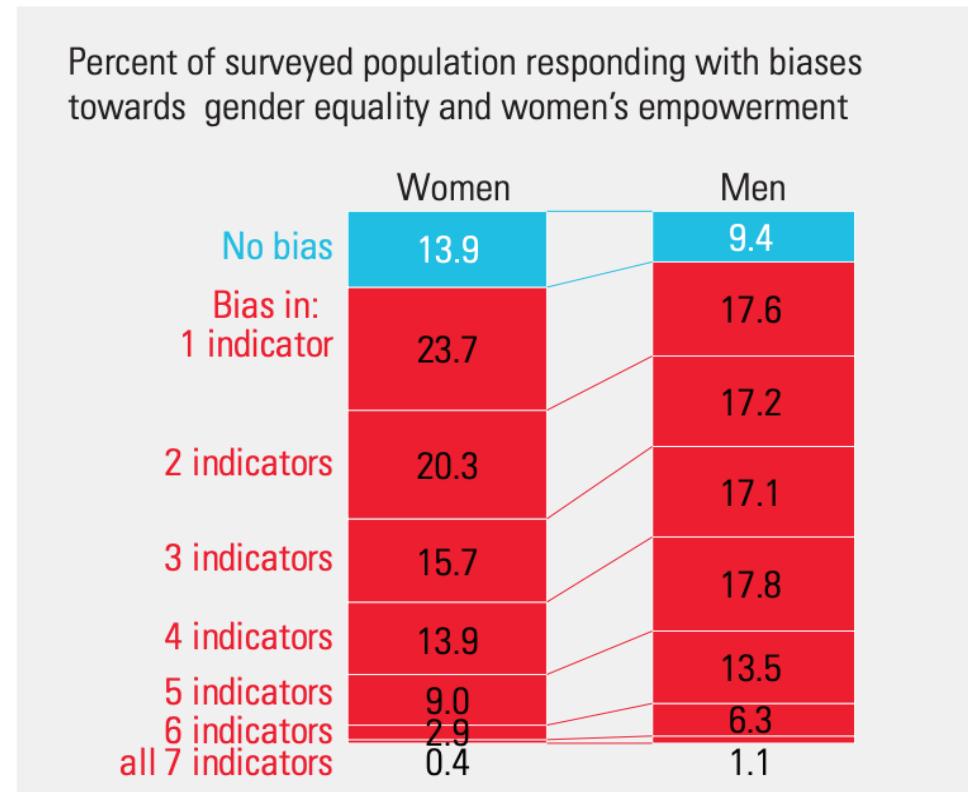
STEM

NEP



FIGURE 6

Only 14 percent of women and 10 percent of men worldwide have no gender social norms biases



Note: Based on 75 countries and territories with data from wave 5 or 6 of the World Values Survey, accounting for 81 percent of the global population.

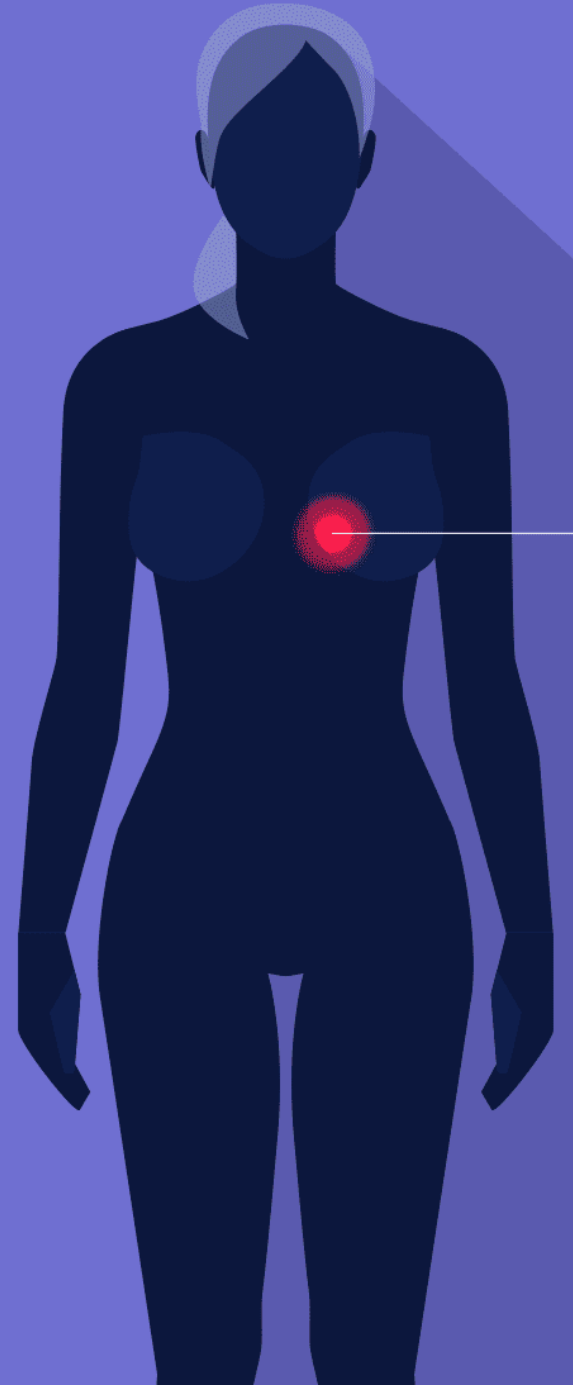
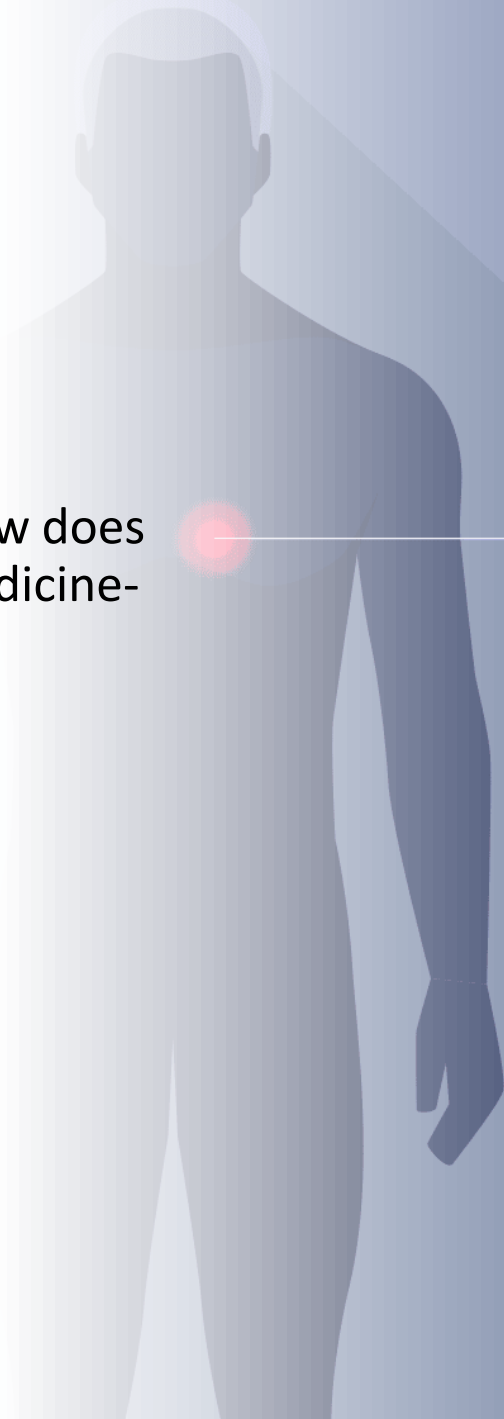
Source: Mukhopadhyay, Rivera and Tapia (2019), based on data from the World Values Survey.

emily martin:

“the egg and the sperm:
how science has constructed a
romance based on stereotypical
male-female roles”



Gender bias in research: how does it affect evidence based medicine-
Anita Holdcroft



While women made up a slightly larger share of graduates with Bachelor's and Master's degrees in 2014



At the doctoral level, the share of female graduates drops to 44%
(UNESCO, 2017b)

STEM areas of study



(science, technology, engineering, and mathematics) show a heavy underrepresentation of female students in most countries.

Globally, in over $\frac{2}{3}$ of countries, the percentage of females studying engineering, manufacturing and construction or ICT (information and communications technology) is below 25%.
(OCDE, 2017)

Women are over-represented among teaching staff at lower education levels, while their presence is markedly lower in tertiary education.
(UNESCO, 2020a)

TEACHING STAFF



In 2018
→ Primary education



→ Secondary education



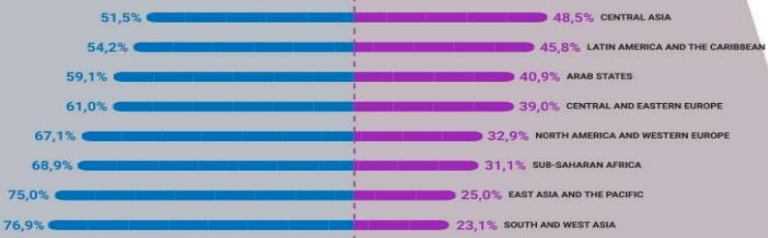
→ Tertiary education

RESEARCH



Just 30% of the world's researchers at universities are women
(UNESCO, 2019)

The regional averages for 2017 (UNESCO, 2020b)



PUBLICATION



Men publish on average more articles than women showing there is a gender publication gap
(Elsevier, 2020)

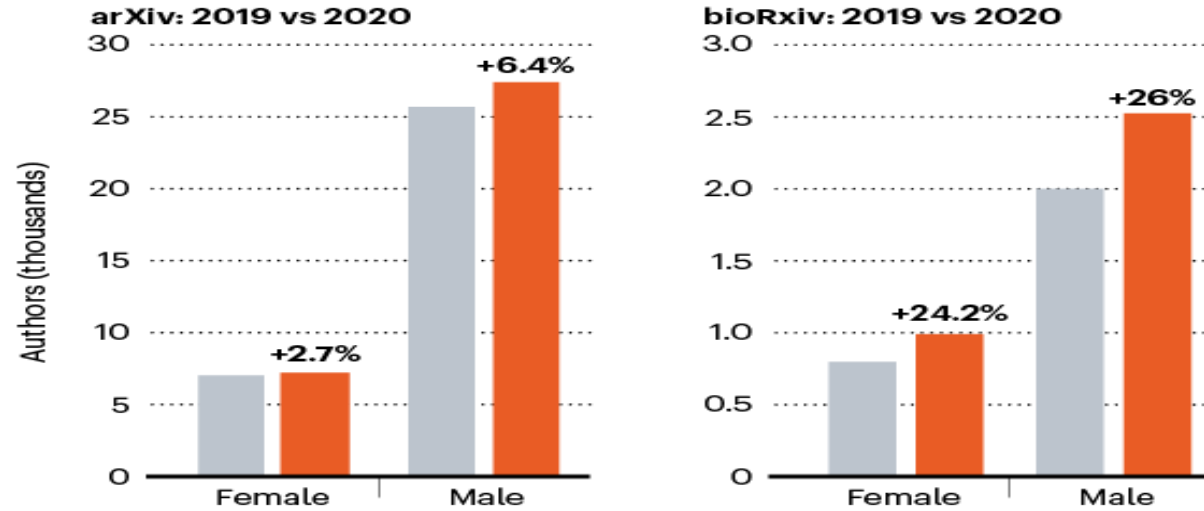
PREPRINT DROP-OFF

Two separate analyses show that women's posting rate on preprint servers has slowed during the coronavirus pandemic.

All-author analysis

When compared with March and April 2019, the number of male authors on preprints posted to bioRxiv and arXiv has grown faster than the number of female authors in that period this year.

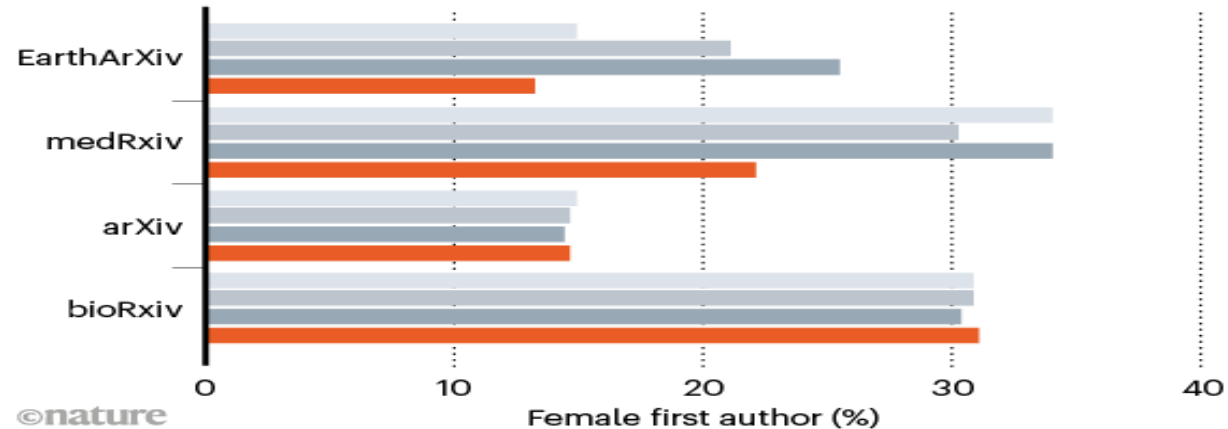
Mar–Apr 2019 ■ Mar–Apr 2020 ■



First-author analysis

At many preprint servers, women were submitting at a lower rate in March and April, as compared with the preceding two months and the same months of the previous year.

Jan–Feb 2019 ■ Mar–Apr 2019 ■ Jan–Feb 2020 ■ Mar–Apr 2020 ■









where the mind
is without
fear

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