

Research Finds Women Use Generative AI Less, Due to Moral Concerns

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A new study led by Oxford University concludes that women are using generative AI far less than men – not because they lack skills, but because they worry more about AI’s harm to jobs, privacy, mental health, and society itself.

As the [primary targets](#) of unauthorized [deepfake](#) content, women have been strongly associated with activism regarding this controversial strand of generative AI over the last seven years, leading to some [notable victories](#) in recent times.

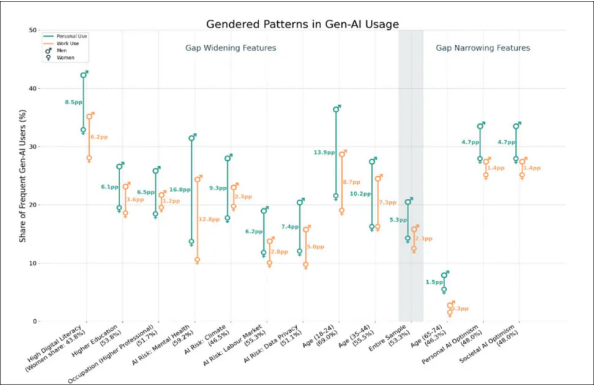
However, a new study led by Oxford University argues that this characterization of female concern around AI is too narrow, finding that women are using generative AI *of all kinds* far less than men – not due to gaps in access or skill, but because they are more likely to view it as harmful to mental health, employment, privacy, and the environment.

The paper states:

‘Using nationally representative UK survey data from [2023–2024], we show that women adopt GenAI substantially less often than men because they perceive its societal risks differently.

‘Our composite index capturing concerns about mental health, privacy, climate impact, and labour-market disruption explains 9-18% of variation in adoption and ranks among the strongest predictors for women across all age groups—surpassing digital literacy and education for young women.’

The widest gaps, according to the researchers, appear among younger, digitally fluent users who express strong concern about AI’s social risks, with gender differences in personal use reaching more than 45 percentage points:



Gender gaps in frequent generative AI use are widest among women with high digital literacy who also report strong concern about mental health, climate, privacy, and labor-market risks, while the smallest gaps appear among those with greater optimism about AI's societal effects. [Source](#)

By matching similar respondents across successive survey waves in a [synthetic-twin panel](#), the study finds that when young women grow more optimistic about AI's societal impact, their use of generative AI rises from 13% to 33%, significantly closing the gap. Among those concerned about climate harms, the gender gap in generative AI use widens to 9.3 percentage points, and among those worried about mental health harms, it grows to 16.8 points, driven not by increased use among men but by marked declines among women.

The authors therefore identify an apparent cultural effect relating to gender*:

'On average, women [exhibit more social compassion](#), traditional moral concerns, and pursuit of [equity]. Meanwhile, moral and social concerns have been found to play a role in the acceptance of technology.

'Emerging [research](#) on GenAI in education suggests that women are more likely to perceive AI use on coursework or assignments as unethical or equivalent to cheating, facilitating plagiarism, or spreading misinformation.

'Greater concern for social good may partly explain women's lower adoption of GenAI.'

They opine that women's take on this, as observed in the study, is a valid one:

'[Women's] heightened sensitivity to environmental, social, and ethical impacts is not misplaced: generative AI systems currently carry significant energy demands, uneven labour practices, and well-documented risks of bias and misinformation.

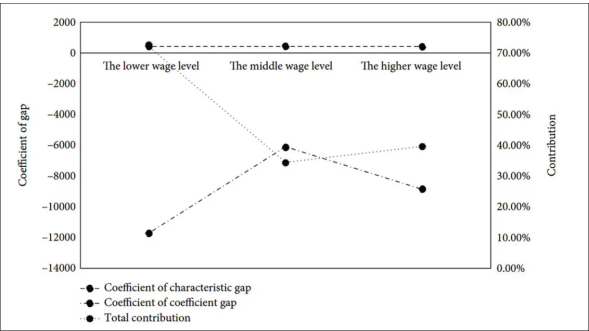
'This suggests that narrowing the gender gap is not only a matter of shifting perceptions, but also of improving the underlying technologies themselves. Policies that incentivize lower-carbon model development, strengthen safeguards around bias and wellbeing harms, and increase transparency around supply-chain and training-data practices would therefore address legitimate concerns—while ensuring that women's risk awareness acts as a lever for technological improvement rather than a barrier to adoption.'

They further note that while the study shows clear evidence of the stated adoption gap, its findings are [likely to be even higher outside the UK](#) (which is the location of the new study).

The [new paper](#) is titled 'Women Worry, Men Adopt: How Gendered Perceptions Shape the Use of Generative AI', and comes from researchers across the Oxford Internet Institute, the Institute for New Economic Thinking in Belgium, and the Humboldt Institute for Internet and Society in Berlin.

Data and Approach

A new trend in research has indicated recently that women are using generative AI (of all kinds) less frequently than men, in spite of no difference in ability or access – a shortfall that has been [estimated as a contributing factor](#) to the gender wage gap lately, in line with prior trends relating lower internet use (in women) with lower salaries:



From the 2023 paper 'Has Internet Usage Really Narrowed the Gender Wage Gap?: Evidence from Chinese General Social Survey Data', an illustration of internet use narrowing the gender wage gap more significantly at lower wage levels, with diminishing returns as wage levels rise. [Source](#)

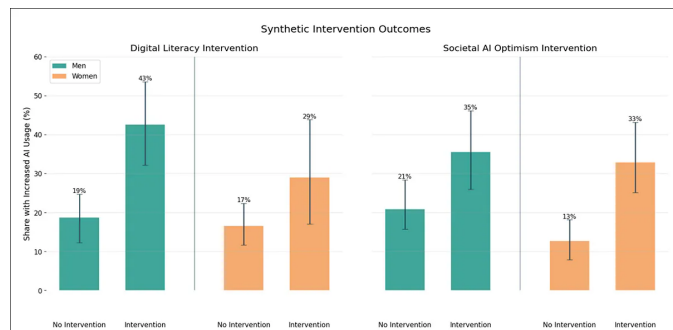
For the new work, the authors used the year-on-year study information available in the UK government's *Public attitudes to data and AI: Tracker survey initiative* to analyze how perceptions of AI-related risks influence adoption patterns across gender, isolating risk sensitivity as a key factor in reduced use among women.

GenAI gender gaps grow much wider when risk concerns combine with other traits. The biggest gap, illustrated below, of 5.3 points, appears among women with high digital skills who see AI as a mental-health risk:

Synthetic Twins

To test whether changing attitudes on these topics can shift behavior, the researchers used a synthetic-twin design, pairing similar respondents across two survey waves. Each person from the earlier wave was matched with a later respondent of the same age, gender, education, and occupation.

The team then compared changes in generative AI use among those who either improved their digital skills or became more optimistic about AI's societal effects, allowing them to isolate whether greater literacy or reduced concern could actually increase adoption, especially among younger adults:



To test whether targeted changes affect AI use, the researchers compared young adults who improved digital skills or grew more optimistic about AI's societal impact. Both changes raised adoption, but digital literacy widened the gender gap by helping men more. By contrast, greater optimism boosted women's usage from 13% to 33%, narrowing the divide and suggesting that addressing ethical concerns may be more effective than skill-building alone.

Boosting digital literacy raised generative AI use for both genders, but widened the gap, with men benefiting more. In the full sample, women's usage rose from 9% to 29%, while men increased from 11% to 36%.

Among younger adults, gains in digital literacy raised men's usage sharply from 19% to 43%, while women's increase from 17% to 29% was modest and not statistically significant. By contrast, greater optimism about AI's societal impact produced a more balanced shift, with women rising from 13% to 33%, and men from 21% to 35%. In the full sample, women moved from 8% to 20%, and men from 12% to 25%.

Therefore, the paper indicates, while digital upskilling lifts adoption overall, it also tends to widen gender gaps – and re-framing perceptions of AI's broader impact appears more effective at increasing women's use, without disproportionately boosting uptake among men.

Conclusion

The significance of these findings seems to fork as the paper unfolds; earlier, as quoted above, the authors regard women's greater global concern and ethical stance with approbation. Towards the end, a more reluctant and pragmatic viewpoint emerges – perhaps in the current spirit of the time – as the authors wonder if women will be 'left behind' due to their moral vigilance and misgivings:

'[Our] findings point to broader institutional and labour-market dynamics. If men adopt AI at disproportionately higher rates during the period when norms, expectations, and competencies are still taking shape, these early advantages may compound over time, influencing productivity, skill development, and career progression.'

* My conversion of the authors' inline citations to hyperlinks.

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