Chart

Description automatically generated

**Figure 1.** **Overall effect of the pandemic on academia’s gender gap in productivity.** Orchard plot showing all 115 effect sizes (points) and their weight (point size), with the mean effect size (darker coloured point outlined black and vertically centred), the 95% confidence interval (horizontal thick black bar) and the 95% prediction interval of the expected spread of effect sizes based on between-study variance (horizontal thin black bar). k =x(y), where x is the number of effect sizes and y is the number of studies.

Chart, scatter chart

Description automatically generated

**Figure 2. Type of research productivity measure influence on academia’s gender gap during the pandemic.** Orchard plots comparing the distribution of effect sizes (points) and their weight (point size) depending on the type of research productivity measured (publication studies in green and self-reported studies in yellow), for which the mean effect size (darker coloured points outlined black and vertically centred), the 95% confidence interval (horizontal thick black bar) and the 95% prediction interval of the expected spread of effect sizes based on between-study variance (horizontal thin black bar) is given. k =x(y), where x is the number of effect sizes and y is the number of studies.

Chart, scatter chart

Description automatically generated

**Figure 3.** **Research field influence on academia’s gender gap during the pandemic.** Orchard plot comparing the distribution of effect sizes (points) and their weights (point sizes) depending on the research fields sampled, for which the mean effect size (darker coloured points outlined black and vertically centred), the 95% confidence interval (horizontal thick black bar) and the 95% prediction interval of the expected spread of effect sizes based on between-study variance (horizontal thin black bar) is given. TEMCP stands for Technology, Engineering, Mathematics, Chemistry and Physics. k =x(y), where x is the number of effect sizes and y is the number of studies.

Chart, line chart

Description automatically generated

**Figure 4. Research field influence on academia’s gender gap in submissions and publications during the pandemic.** Line plot of gender gap in authorship before and during the pandemic, grouped by research field. Points show gender gap as the proportion of female authors publishing and submitting before or during the pandemic and are coloured according to research field. Lines take the mean value of these points according to research field. TEMCP stands for Technology, Engineering, Mathematics, Chemistry and Physics.

Diagram

Description automatically generated

**Figure 5.** **Authorship position and academia’s gender gap during the pandemic.** Orchard plot comparing the distribution of effect sizes (points) and their weight (point sizes), depending on the authorship position sampled in publication studies, for which the mean effect size (darker coloured points outlined black and vertically centred), the 95% confidence interval (horizontal thick black bar) and the 95% prediction interval of the expected spread of effect sizes based on between-study variance (horizontal thin black bar) is given. k =x(y), where x is the number of effect sizes and y is the number of studies.

Diagram

Description automatically generated

**Figure 6. Investigating publication bias.** Funnel plot of effect sizes and their precision, as a function of standard error, from studies that measure research productivity by (a) survey-responses (b) article output. The vertical dashed line is the summary effect size. The legend outlines levels of statistical significance for effect sizes based on their precision.