

Sexism and the gender participation gap in political discussions online

Sabine Reich & Marko Bachl

Equal representation of all societal groups in the political discourse is a powerful ideal of democracy. Yet, female voices are grossly underrepresented. Studies focusing on political expression as a form of online political participation (OPP) replicate offline findings: Women overall prefer less visible forms of participation and voice their opinion less in political online debates, while the majority of commenters on online newspapers seems to be male (Bode, 2017; Vochocová et al., 2016; Ziegele et al., 2013). Social, structural, individual, and institutional factors are often cited (Harrison & Munn, 2007). One aspect that has received less attention are the different experiences men and women make online. In a preregistered experiment we investigate how sexism in the form of denying women competence in OPP affects the willingness of political expression in online environments for both men and women.

Theory

The digital environment provides new space for negative experiences. Online incivility (Papacharissi, 2004) or hate speech (Gagliardone et al., 2015, S. 10) negatively influence the perceived discussion climate and the consequent willingness to participate in it (Ziegele & Jost, 2020) as well as the well-being of the targets (Obermaier et al., 2018). Particularly women experience online harassment, if they take part in online environments. This is often attributed to sexism (Döring & Mohseni, 2020; Duggan, 2017). Female politicians (Rheault et al., 2019) and journalists (Gardiner, 2018) become the target of online incivility more frequently compared to their male colleagues. Women report negative reactions to sharing political opinions online in qualitative interviews (Sobieraj, 2018; Vochocová, 2018) and quantitative data supports the notion (Koc-Michalska et al., 2019).

The underrepresentation of female voices and attacks against women who do participate display politics as a masculine space (Schneider & Bos, 2019). It can be assumed that sexist comments in online environments are likely to establish social rules. Based on the theory of normative social behavior, sexism in online political discussions can influence the social norms of OPP in two ways (Rimal & Real, 2005). For one, questioning and attacking women in political discussions online displays a

descriptive social norm of the medium (Flanagin, 2017; Geber & Hefner, 2019). Additionally, these displays bias the perceived norms of the online culture and suggest that women have to expect consequences when voicing their opinions (injunctive norms, Rimal & Real, 2005). Based on previous findings on this theoretical background we predicted that reading sexist comments (vs. benign comments) in a discussion decreases women's likelihood to participate (H1a) and to share their own opinion (H1b) and the decrease is larger for women than for men. We expected that reading sexist comments (vs. benign comments) further increases the expected sanctions for women and the increase is larger for women compared to men (H2). Lastly, we predicted that reading sexist comments (vs. benign comments) decreases the perceived competence for women but not for men (H3). As the younger demographic uses the internet more (Wen et al., 2013), and have more experience with online harassment (Duggan, 2017) we explored the impact of age in our models as a research question (RQ1). Secondary hypotheses and additional research questions can be found in our preregistration¹.

Method

To test the hypothesis we designed a 2 (sexist vs. benign comment) X 2 (self-reported binary gender) online (quasi-)experiment. A sample of 750 participants ($M = 44.6$, $SD = 14.3$, 50% female) was recruited from a commercial online access panel, replicating the German population's gender, age, and education make up. Based on 180 participants per cell, we calculated the a priori power at 76% for small ($d = 0.2$) and at 100% for medium effects ($d = 0.5$). Participants answered social demographics first, followed by the participation in political discussion online and preregistered controls and moderators. Then, participants were presented at random with one of two stimulus versions. Based on the discussion board of a public broadcasting station in Germany (meta.tagesschau.de), it showed a short article teaser

¹ https://osf.io/kwh2g/?view_only=26deed40a3d24d71a337f3708224b837

with the user comments located beneath (cf. Figure 1). The teaser featured quotes from a female scientist on paid parental leave. Both versions showed three neutral comments, but the treatment condition included an additional comment and replies that openly questioned the scientist's ability. Users should recognize the sexism but not want to flag or report the posts (Naab et al., 2018). The dependent variables followed. We used two single items for H1, expected sanctions (H2) were based on Neubaum & Krämer (2018), and five items assessed perceived competence (H3). Two treatment check scales measured the recognition of sexist comments (4 items) and perception of a hostile debate climate against women (8 items). Finally, we assessed the topic relevance for participants and the general experience with online harassment. All item and scale information is combined in Table 1.

Results

Our treatment checks showed that participants recognized the sexism and perceived a more hostile climate for women (cf. Figures 2 & 3). Potentially limiting is that the discussion climate was not perceived hostile above the scale midpoint ($M = 4.01$, $SD = 1.23$, 7-point scale). H1a and H1b were not supported by the data, no significant difference between the treatment and control group or gender appeared (cf. Figure 4 & 5). The treatment did increase the expected sanctions ($b = 0.43$, $SE = .11$, $p < .001$; $R^2 = 0.02$), but unconditional of gender, thus H2 was not supported (cf. Figure 6). No support for H3 was found in our data either (cf. Figure 7). In our study, age did not impact the willingness to participate, but expected sanctions decreased with age ($b = -.19$), suggesting different norms associated with online discussions. Controlling for the aptitude to participate in online discussions did not change the results, but the overall low tendency to do so, regardless of gender ($Mdn = 2$) is a limitation. Analysis of the prevalence questions show that the experience of online harassment differs by age and the participant's gender (cf. Figure 8). Further results and implications will be discussed.

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Table 1

Items and Scales	<i>n</i>	<i>M</i>	<i>SD</i>	<i>Mdn</i>	Min	Max	(1)	(2)	(3)	(4)	(5)
(1) Likelihood of participation	750	2.23	1.61	1.00	1	7	-				
(2) Likelihood of opinion expression	750	2.31	1.70	1.00	1	7	0.92	-			
(3) Expected sanctions	750	2.79	1.49	2.89	1	7	0.09	0.10	0.89		
(4) Recognition of attack	750	3.56	1.81	3.75	1	7	0.02	0.01	0.25	<i>0.94</i>	
(5) Recognition of hostile climate against women	750	3.33	1.40	3.50	1	7	0.08	0.08	0.36	0.84	0.85

Note. Reliability shown on the diagonal, bold values are ω , kursive values are Cronbach's α

Figure 1

Stimuli Control (left) and Treatment (right)


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3. Juni 2020 - 16:40 Uhr



Eine neue Studie der Universität Bielefeld zeigt, dass das Elterngeld gut ankommt. "Seit der Einführung des Elterngelds nehmen sowohl Mütter als auch Väter länger Elternzeit", sagte Frau Dr. Schmidt, wissenschaftliche Leiterin der Studie. Nach wie vor gingen aber wesentlich mehr Mütter in Elternzeit. Auch seien die Bezugszeiten von Vätern sehr viel kürzer.
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Schlagwörter der Meldung: Elterngeld Elternzeit Studie
 Geo-Schlagwörter der Meldung: Bielefeld Deutschland Europa

Kommentare

Am 03. Juni 2020 um 17:01 von ThMa
Ich freue mich auf Elternzeit

Es ist doch interessant zu sehen wie sich die Zahlen in den letzten Jahren verändert haben. Ich kenne auch viele die in Elternzeit sind und viel Spaß mit ihren kleinen haben. Das mache ich bald auch @

Am 03. Juni 2020 um 17:39 von Corax
Wie macht ihr das mit der Elternzeit?

Es ist echt spannend zu hören, wie sich das entwickelt. Wir stehen aktuell vor der Entscheidung wer für wie lange Elternzeit macht und müssen uns das beste für unser Kind überlegen. Wie sieht das bei Euch allen aus? Wie organisiert ihr die Elternzeit oder wie würdet ihr das machen?

Am 03. Juni 2020 um 17:41 von Möbius
@ Corax

Ja, das ist echt eine voll wichtige Frage. Wir waren beide in Elternzeit und es war eine tolle Erfahrung. Ich verstehe aber auch total, wenn das bei einer Familie nicht geht. Ich hoffe, ihr findet für euch die beste Lösung!

Am 03. Juni 2020 um 17:45 von O_50
Zahlen und Gefühle sind nicht das gleiche!

Ich finde es ja auch schwierig immer nur mit so Zahlen zu kommen. Man sollte mal die Mamas und Papas fragen was sie wirklich fühlen.

Am 03. Juni 2020 um 17:57 von weltoffen
Mehr Elterngeld!

Alles gut, interessante Studie. Aber was ich schon noch sagen muss: Das Elterngeld ist viel zu niedrig. Da müsste die Politik mal was machen.


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Am 03. Juni 2020 um 17:15 von micmar
Die Frau kann nicht rechnen

Die "Studie" dieser "Wissenschaftlerin" sagt doch gar nichts! Die Frau Doktorin hat sich doch verrechnet, das kann gar nicht sein. Die gute Frau sollte lieber noch mal einen Grundkurs 6. Klasse Mathematik machen, bevor sie hier mit so "Studien" um die Ecke kommt. Bleib lieber mal selber zuhause und kümmer dich um deine Kinder! Falls du überhaupt welche hast, wäre vielleicht auch besser, wenn nicht... Eine echte Wissenschaftlerin ist die Frau Doktor Schmidt nicht!!!

Am 03. Juni 2020 um 17:30 von TN255
@ micmar

Genau so!!! Traue keiner Statistik, die du nicht selbst gefälscht hast. Wobei die Frau Doktor wahrscheinlich sogar zum fälschen zu blöd ist.

Am 03. Juni 2020 um 17:37 von Napf
von micmar

Jaja, die Frau "Doktorin" Schmidt... Wahrscheinlich selber noch nie um ein Kind gekümmert, will uns aber vorschreiben, was wir machen sollen. Typisch Frau!

Am 03. Juni 2020 um 17:39 von Corax
Wie macht ihr das mit der Elternzeit?

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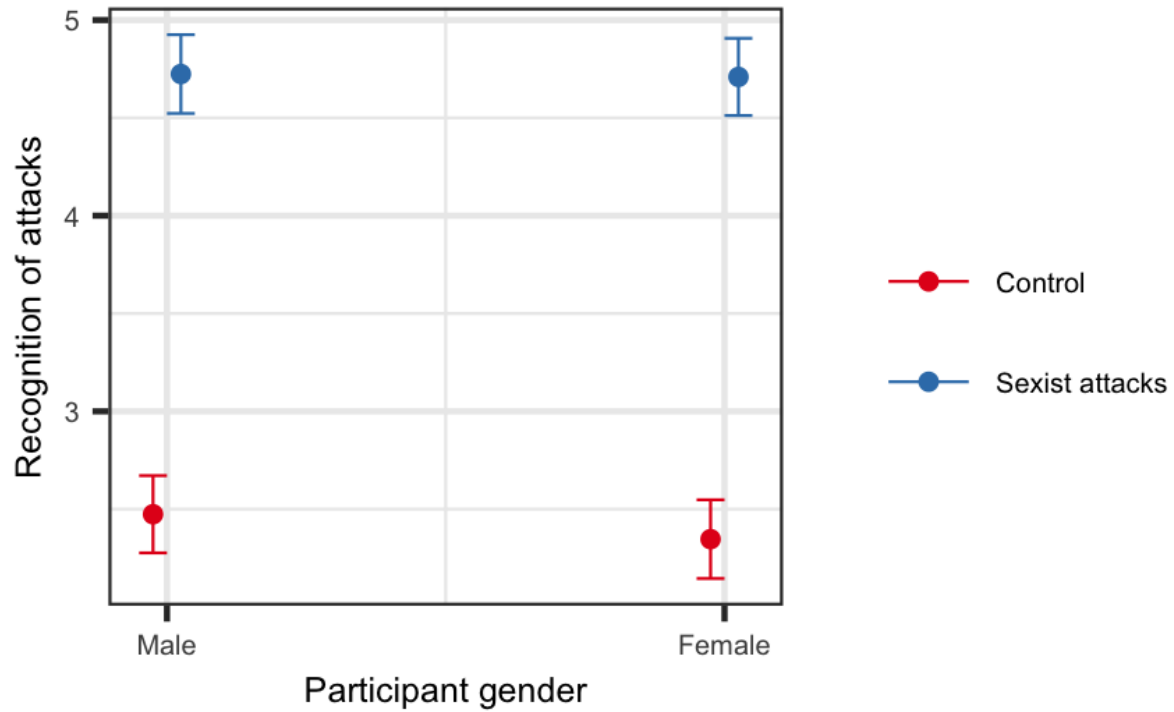
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Figure 2*Treatment check 1: Recognition of sexist attacks*

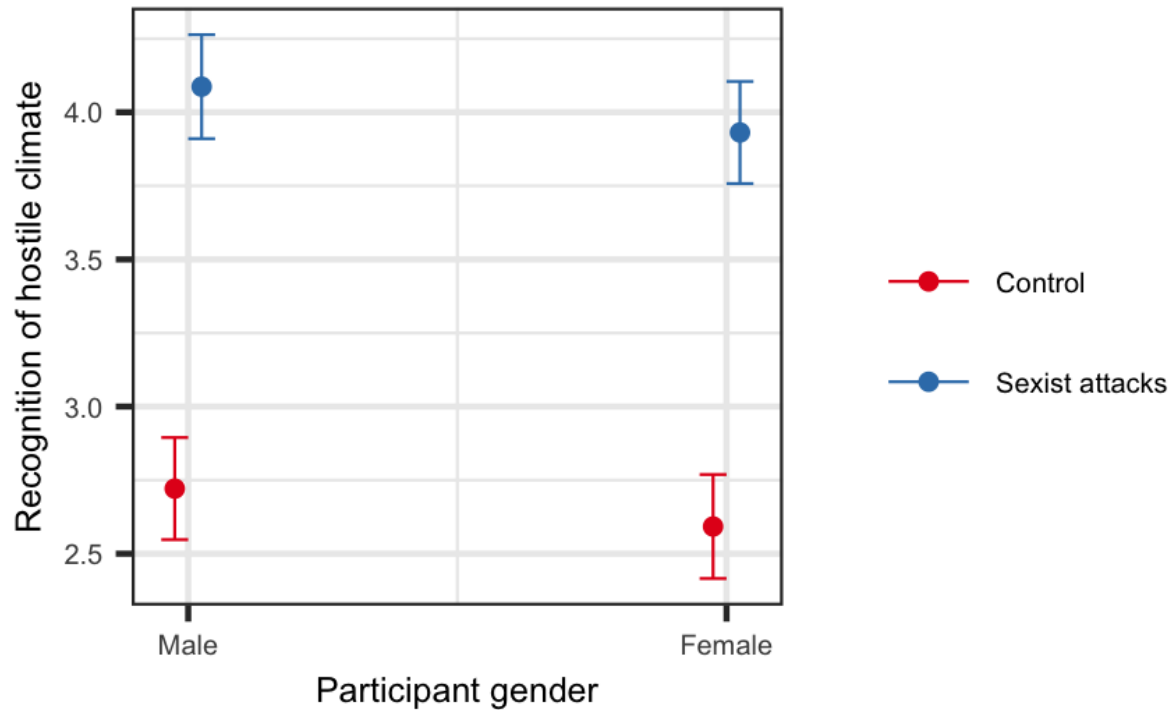
Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 2.31$, 95% CI [2.11, 2.51], $t(746) = 22.68$, $p < .001$. Main effect of participant gender

(female): $b = -0.07$, 95% CI [-0.27, 0.13], $t(746) = -0.70$, $p = .485$.

Interaction effect: $b = 0.11$, 95% CI [-0.29, 0.51], $t(746) = 0.55$, $p = .580$.

Overall model fit: $R^2 = .41$, 90% CI [0.36, 0.45], $F(3,746) = 171.58$, $p < .001$.

Figure 3*Treatment check 2: Recognition of hostile climate against women*

Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 1.35$, 95% CI [1.18, 1.53], $t(746) = 15.14$, $p < .001$. Main effect of participant gender

(female): $b = -0.14$, 95% CI [-0.32, 0.03], $t(746) = -1.59$, $p = .112$.

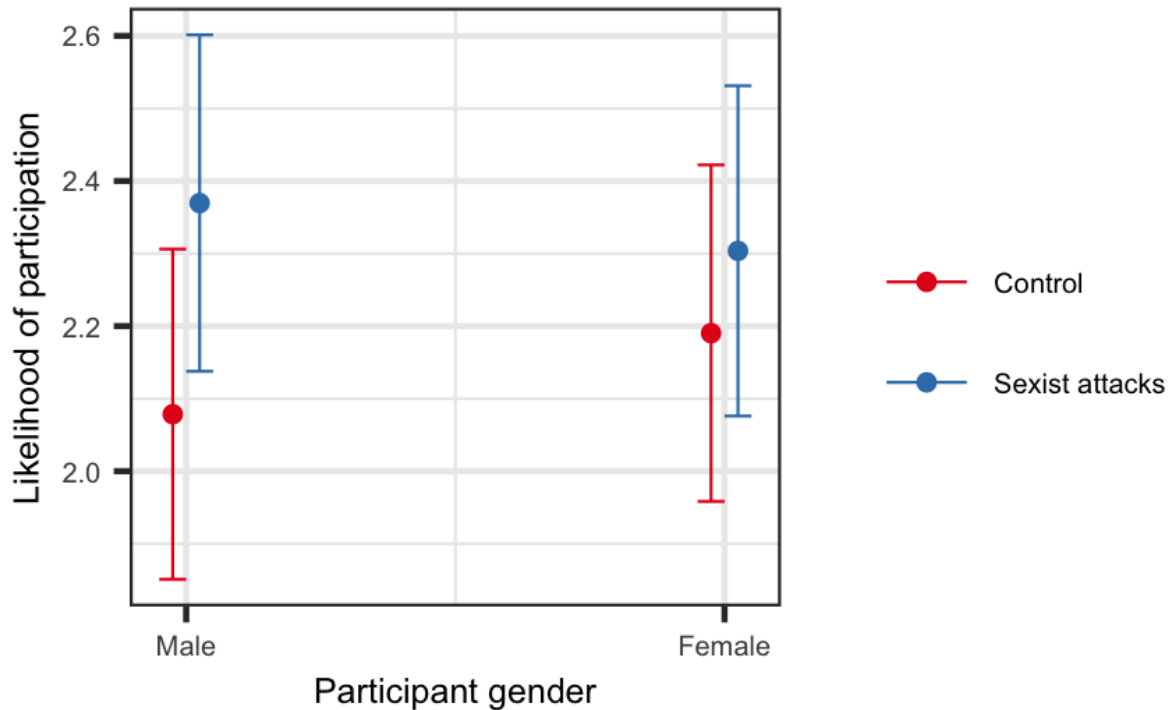
Interaction effect: $b = -0.03$, 95% CI [-0.38, 0.32], $t(746) = -0.15$, $p = .881$.

Overall model fit: $R^2 = .24$, 90% CI [0.19, 0.28], $F(3,746) = 76.95$, $p < .001$.

Hypotheses

Figure 4

H1a: Likelihood of participation

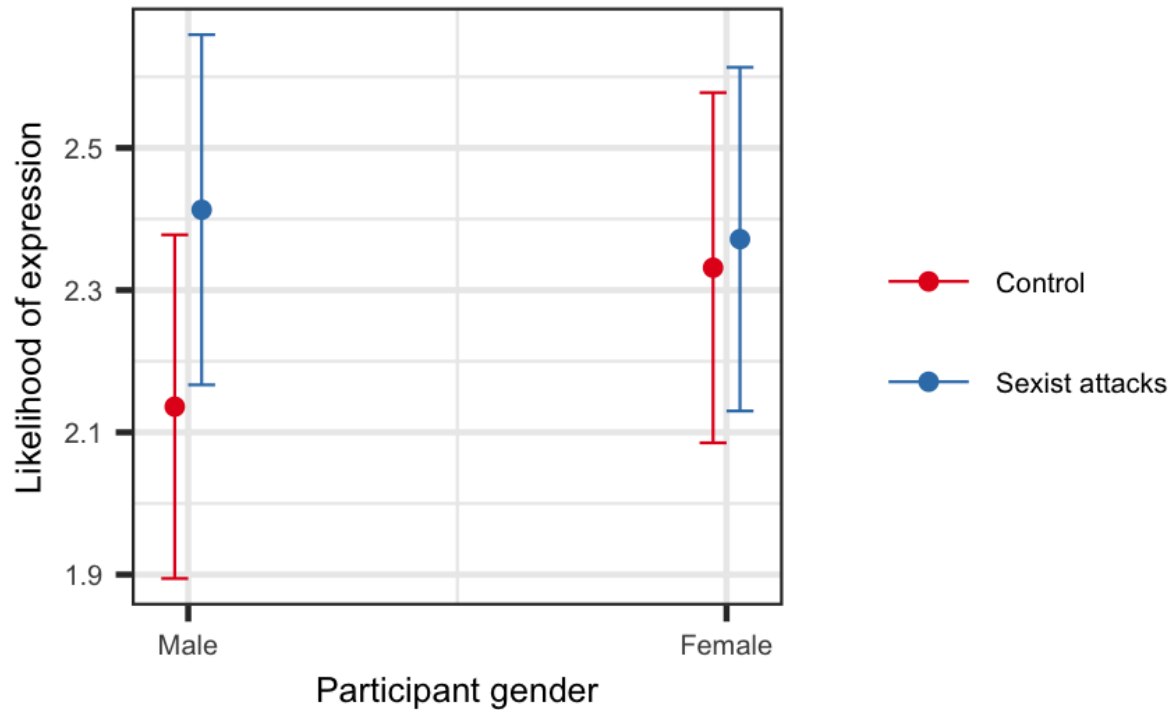


Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 0.20$, 95% CI $[-0.03, 0.43]$, $t(746) = 1.73$, $p = .085$. Main effect of participant gender (female): $b = 0.02$, 95% CI $[-0.21, 0.25]$, $t(746) = 0.20$, $p = .845$.

Interaction effect: $b = -0.18$, 95% CI $[-0.64, 0.28]$, $t(746) = -0.76$, $p = .449$.

Overall model fit: $R^2 = < .01$, 90% CI $[0.00, 0.01]$, $F(3,746) = 1.20$, $p = .309$.

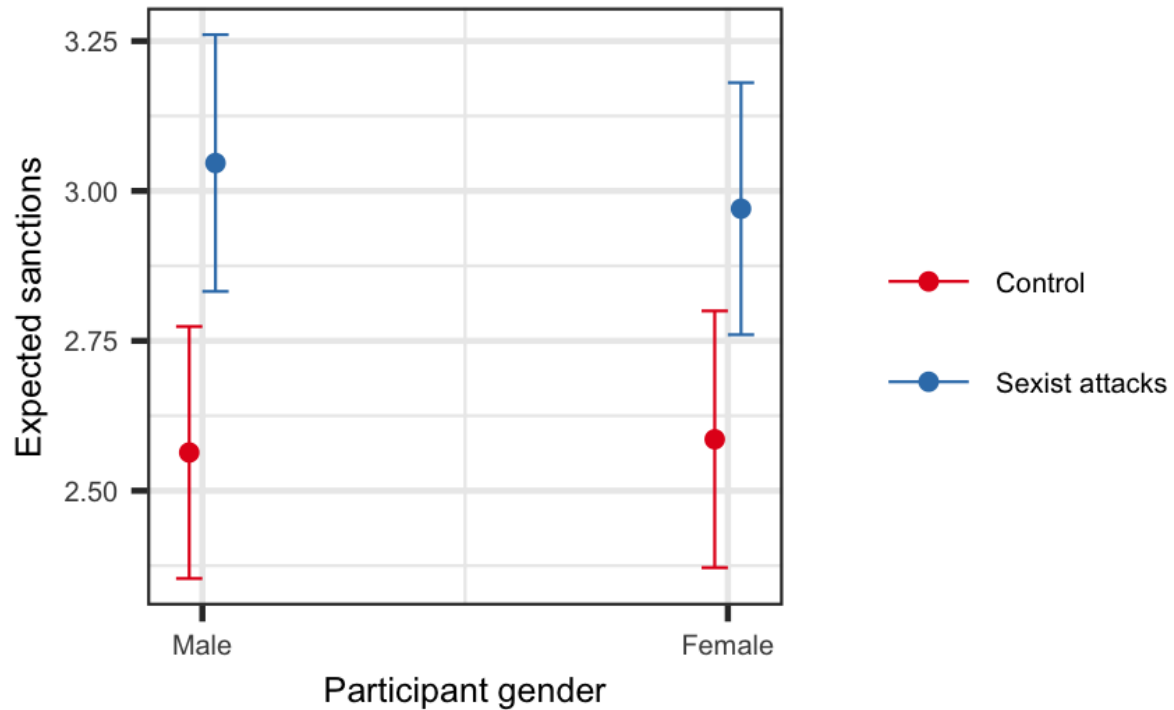
Figure 5*H1b: Likelihood of opinion expression*

Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 0.16$, 95% CI $[-0.09, 0.40]$, $t(746) = 1.27$, $p = .203$. Main effect of participant gender (female): $b = 0.08$, 95% CI $[-0.17, 0.32]$, $t(746) = 0.62$, $p = .536$.

Interaction effect: $b = -0.24$, 95% CI $[-0.73, 0.25]$, $t(746) = -0.95$, $p = .342$.

Overall model fit: $R^2 = < .01$, 90% CI $[0.00, 0.01]$, $F(3,746) = 0.98$, $p = .402$.

Figure 6*H2: Expected sanctions*

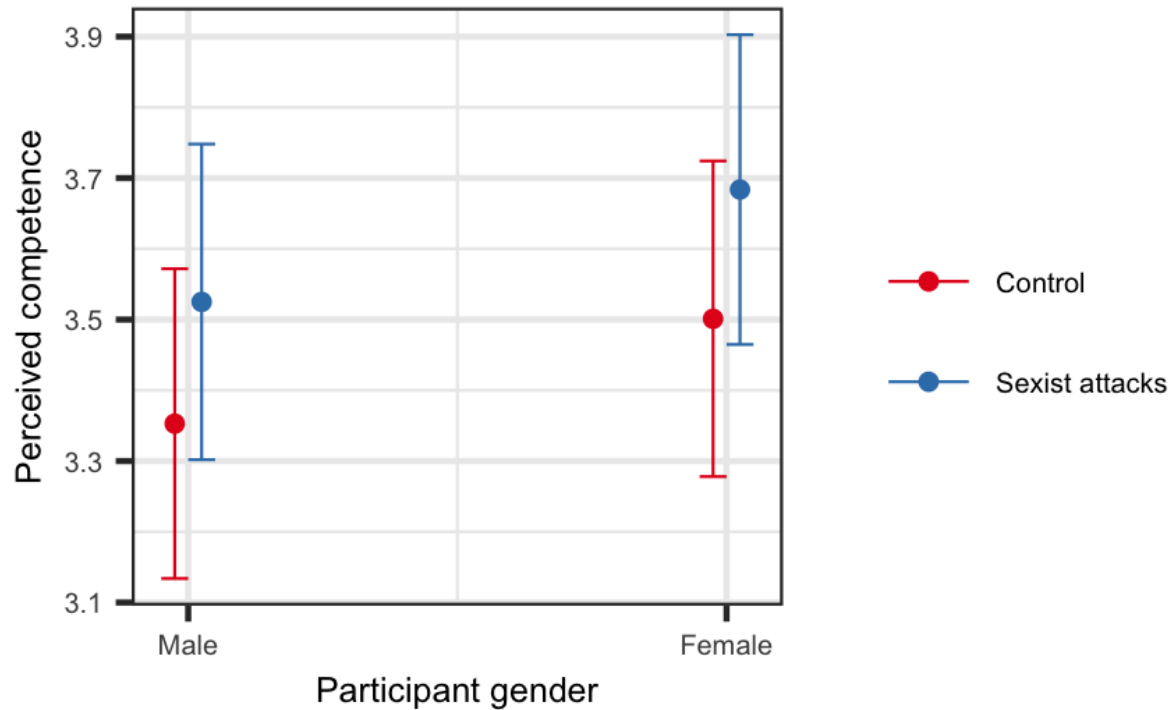
Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 0.43$, 95% CI [0.22, 0.65], $t(746) = 4.01$, $p < .001$. Main effect of participant gender

(female): $b = -0.03$, 95% CI [-0.24, 0.19], $t(746) = -0.25$, $p = .803$.

Interaction effect: $b = -0.10$, 95% CI [-0.52, 0.33], $t(746) = -0.45$, $p = .650$.

Overall model fit: $R^2 = .02$, 90% CI [0.01, 0.04], $F(3,746) = 5.43$, $p = .001$.

Figure 7*H3: Perceived competence*

Note. Both predictors were effect-coded before the analysis. Main effect of sexist attack:

$b = 0.18$, 95% CI $[-0.04, 0.40]$, $t(746) = 1.57$, $p = .116$. Main effect of participant gender (female): $b = 0.15$, 95% CI $[-0.07, 0.37]$, $t(746) = 1.36$, $p = .174$.

Interaction effect: $b = 0.01$, 95% CI $[-0.43, 0.45]$, $t(746) = 0.05$, $p = .963$.

Overall model fit: $R^2 = .01$, 90% CI $[0.00, 0.01]$, $F(3,746) = 1.47$, $p = .221$.

Figure 8

Prevalence of online harassment

