Women Want an Answer! Field Experiments on Elected Officials and Gender Bias

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Abstract

Are elected officials more responsive to men than women inquiring about access to government services? Women face discrimination in many realms of politics, but evidence is limited on whether such discrimination extends to interactions between women and elected officials. In recent years, several field experiments have examined public officials’ responsiveness. The majority focused on racial bias in the USA, while the few experiments outside the USA were usually single-country studies. We explore gender bias with the first large-scale audit experiment in five countries in Europe (France, Germany, Ireland, Italy, and Netherlands) and six in Latin America (Argentina, Brazil, Chile, Colombia, Mexico, and Uruguay). A citizen alias whose gender is randomized contacts members of parliament about unemployment benefits or healthcare services. The results are surprising. Legislators respond significantly more to women (3% points), especially in Europe (4.3% points). In Europe, female legislators in particular reply substantially more to women (8.4% points).

Keywords: gender bias; legislators’ responsiveness; filed experiment; Europe; Latin America

Are elected officials more responsive to men than women when they receive requests about government services? Women face discrimination in many realms of politics. Political parties are more responsive to the preferences of men (Homola 2019), party leaders are more likely to recruit men (Crowder-Meyer 2013; Fox and Lawless 2010; Lawless and Fox 2010), and gender bias in voting still

The authors would like to thank Cecilia Martinez-Garrardo and Anna Bassi for their constant support during the initial stages of this project. They are also grateful to Luke Chanarin and Bilyana Petrova for reading different versions of the manuscript, as well as the participants in the European Political Science Association Meeting in Milan, Italy, and the anonymous reviewers for their helpful comments. Finally, they would like to thank Beatriz Rey and Jelle Koedam for their help with translation. The authors declare that there is no conflict of interest. They have no affiliations with or involvement in any organization or entity with any financial or non-financial interest in the subject matter or materials discussed in this manuscript. The data, code, and any additional materials required to replicate all analyses in this article are available at the Journal of Experimental Political Science Dataverse within the Harvard Dataverse Network, at: https://doi.org/10.7910/DVN/VVXJBJ under: Magni and Ponce de Leon, 2020.

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penalizes female candidates, even when outright prejudice is on the decline (Anzia and Berry 2011; Fulton 2012; Teele, Kalla, and Rosenbluth 2018). Does this discrimination extend to other aspects of politics, such as the interaction between elected officials and female constituents?

Perhaps counterintuitively, some considerations suggest that women may face a positive bias in their interaction with legislators. The reason could be that female representatives are more responsive to women. Indeed, women in office have been especially supportive of the interests and rights of women, often promoting women-related legislation (Bratton 2005; Franceschet and Piscopo 2008; O’Brien and Piscopo 2019; Schwindt-Bayer 2006; Swers 2002; Vega and Firestone 1995). Such a positive disposition may also manifest in greater responsiveness of female elected officials to women.

To shed light on the issue, this article investigates whether politicians discriminate on the basis of gender when they address constituents’ requests. In recent years, a growing number of studies have explored elected officials’ responsiveness to citizens, often adopting audit experiments. The vast majority of audit studies took place in the USA (Costa 2017) and focused on racial bias (Butler and Brockman 2011; Butler and Crabtree 2017; Einstein and Glick 2017; Grose 2014; Mendez n.d.; Mendez and Grose 2018). Some experiments explored socio-economic discrimination (Carnes and Holbein 2019; Habel and Birch 2019).¹

Work on gender bias is more limited. The few studies available have examined elected officials’ responsiveness to young men and women seeking political mentorship and found no bias (Golder, Crabtree, and Dhima 2019; Kalla, Rosenbluth, and Teele 2017) or a positive bias toward women (Dhima 2018; Rhinehart 2020). Another study assessed how officials’ gender influenced citizens’ engagement with their representatives (Costa and Schaffner 2018). Previous work, however, has generally overlooked a core function of elected officials: their responsiveness to citizens seeking access to government services. Exploring how gender affects responsiveness is important to assess whether women and men are equally well-represented.

We investigate gender bias in legislators’ responsiveness with the first large-scale audit experiment conducted in 11 countries across two continents. We carried out the experiment with all sitting members of parliament (MPs) in five countries in Europe (France, Germany, Ireland, Italy, and the Netherlands) and six in Latin America (Argentina, Brazil, Chile, Colombia, Mexico, and Uruguay). Our selected countries vary with regard to electoral systems – which may influence legislators’ extrinsic motivations (Broockman 2013; de Vries, Dinas, and Solaz n.d.) – and the proportion of female MPs – which could shape the link between gender and responsiveness (Desposato and Norrander 2009; Wolbrecht and Campbell 2007).

In the experiment, a citizen alias whose gender is randomized to be either female or male sends an email to MPs inquiring about access to unemployment benefits (in Europe) or healthcare services (in Latin America). Across the two regions, we find that gender has a surprising effect on responsiveness. Legislators are overall significantly more likely to respond to women (+3% points), especially in Europe (+4.3% points). In Europe, this result is driven by the behavior of female legislators, who

¹Pfaff et al. (2018) explored religious bias in an audit experiment with public school principals.
reply more often to women than men at a substantively meaningful rate (+8.4% points).

Our article offers significant contributions. The great majority of prior audit experiments took place in the USA, and the few non-American studies have usually been single-country experiments. No study has previously included such a large number of countries across two regions of the world. Thus, an important contribution of our article is that, by conducting similar experiments in multiple countries, it expands our knowledge of the effect of constituent gender on elected officials’ responsiveness in a wider variety of cultural, social, economic, and political contexts.

The implications of our findings are also significant. While the observational literature on gender and politics has shown a link between the descriptive and the substantive representation of women, experimental studies on gender bias in legislator responsiveness have generally reported null effects. In contrast, we found that women receive more replies because of the higher responsiveness from female legislators, at least in Europe. Consistently with earlier observational findings, this implies that more women in office would lead to a higher quality of representation for women. Increasing the number of female legislators is therefore crucial at a time when women still constitute less than 50% of members of parliament in all but four countries in the world.2

Elected officials and responsiveness to citizens

Providing help to citizens with problems that arise in their daily life, especially during hard times, is an important aspect of representation. In her seminal work, Pitkin defined political representation as “acting in the interest of the represented, in a manner responsive to them” (1967, 209). One strategy to study responsiveness is to record whether representatives reply to correspondence from citizens.

Most audit experiments have been conducted in the USA and explored racial bias. They found that black residents receive fewer responses than their white counterparts (Butler and Brockman 2011; Butler and Crabtree 2017; but see Einstein and Glick 2017). Latinos, too, are less likely than whites to obtain an answer (Mendez and Grose 2018; White, Nathan, and Faller 2015), especially if they are undocumented (Mendez n.d.). In contrast, constituents’ social class does not seem to drive discrimination (Carnes and Holbein 2019).

The few studies outside the USA have usually been single-country experiments and have shown mixed results. While McClendon (2016) and Distelhorst and Hou (2014) reveal that racial and ethnic discrimination are common among local officials in South Africa and China, Grose (2015) find little evidence of such bias in Germany. There is also some evidence on class bias in the UK (Habel and Birch 2019). Two comparative audit studies in Europe highlight the importance of intrinsic motivations and the lack of nationalistic bias in elected officials’ responses (Butler, de Vries, and Solaz 2019; de Vries, Dinas and Solaz n.d.).

Work on gender bias is limited and generally focused on political mentorship. Two studies found no bias in elected officials’ responses to young men and women

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seeking political advice in the USA (Kalla, Rosenbluth, and Teele 2017) and New Zealand (Golder, Crabtree, and Dhima 2019). Two other studies – conducted in Canada and the USA – actually found that elected officials respond more to women than men interested in running for office (Dhima 2018; Rhinehart 2020). Another study found no discrimination from bureaucrats toward men and women inquiring about public housing (Einstein and Glick 2017).

Little is known, however, on whether gender bias exists in elected officials’ responses to constituents seeking access to government services, which is a core function of an elected official. We therefore investigate whether legislators discriminate against women or men when answering requests for government assistance and whether they are more responsive to citizens of their own gender.

On the one hand, women face discrimination in many sectors of politics. Such discrimination may also extend to the interaction between women and elected officials, which may lead to fewer responses to women seeking help. On the other hand, elected officials concerned about re-election may adopt strategic calculations (Canon 1999; Grose 2011) and reply to constituents regardless of the constituent’s gender. For example, because of extrinsic motivations, white members of Congress in the USA are more likely to respond to welfare requests from black citizens living in their district than to black citizens outside their district (Broockman 2013).

Still another possibility is that women seeking government help actually receive more responses. This could happen if female legislators showed greater responsiveness to women. We know that female legislators exhibit higher responsiveness in general (Thomsen and Sanders 2019). And we also know that minority legislators often care about advancing the interests of their own group, which helps explain the connection between descriptive and substantive representation (Burden 2007). With regard to responsiveness, for instance, in the USA black legislators – who are guided by an intrinsic motivation to foster the interests of black citizens – respond at a similar rate to black citizens living inside or outside their district (Broockman 2013).

The greater responsiveness of female legislators to women would be consistent with findings from the observational literature on gender and politics, which has shown a link between descriptive and substantive representation. The election of female legislators has promoted women’s rights, women-friendly policies, and women political participation in the USA (Carroll 2001; Swers 2002), Europe (Diaz 2005; Greene and O’Brien 2016) and Latin America (Desposato and Norrander 2009; Schwindt-Bayer 2010). If female legislators are intrinsically motivated to promote women’s interests, they should be especially responsive to women, regardless of electoral considerations.

**Experimental design**

We developed a comparative audit experiment to test these alternative hypotheses. We conducted experiments with MPs in 11 countries in Europe (France, Germany, Ireland, Italy, and the Netherlands) and Latin America (Argentina, Brazil, Colombia, Chile, Mexico, and Uruguay). We collected the list of MPs and their email addresses on the website of each country’s parliament and we wrote to all sitting MPs, for a total of 3,685 emails. A citizen alias contacted MPs via email,
sending messages on the central days of the week (Tuesday, Wednesday, and Thursday).³

The email asked for help with access to unemployment benefits (in Europe) and healthcare services (in Latin America). We formulated comparable requests on two issues that are especially relevant in the two regions. In Europe, whereas unemployment benefits remain a concern to many, access to healthcare services is widespread. In contrast, Latin American citizens still face limitations to healthcare access.⁴ The messages were short, written in the language of each country, and composed of simple sentences to increase the requests’ credibility.

Message in European countries:

Dear Mr./Ms. XXX,
My name is FirstName LastName. I lost my job and I don’t know what to do. What should I do to get unemployment benefits? No one will tell me where to go.
Thank you,
FirstName LastName

Message in Latin American countries:

Dear Mr./Ms. XXX,
My name is FirstName LastName. Last year, I was diagnosed with kidney failure, I don’t have insurance and don’t know what to do. How can I access free treatment? I hope you can help me. Thank you very much.
Sincerely,
FirstName LastName

We adopted a randomized block design, in which the treatment consisted of randomly varying the gender of the alias sending the message within each country. To do this, in each country we randomized the sender’s first name, selecting a common name whose gender could be easily identified. We also chose popular last names, which have no regional connotation and are the same for men and women in each country.⁵

We focus on whether MPs reply or not to the emails requesting help, and we recorded replies received within 2 months of the date when the email was sent. The binary dependent variable equals 1 for MPs who replied and 0 for those who did not. Because we are interested in whether MPs provide information to citizens, we assign 1 only to “real replies.” We consider “real replies” messages that

³The emails were sent in June 2016 (Ireland and Argentina), January 2017 (Italy and Chile), February 2017 (Netherlands and Mexico), March 2017 (Germany and Brazil), and April 2017 (France, Colombia, and Uruguay). In each country, all the emails were sent within 2 weeks, and the number of emails sent by female and male aliases was equally distributed over that time. The countries were determined in advance and specified in the pre-analysis plan. We randomized the order of emails sent (i.e. the month-country pairs).

⁴Most Latin American countries do not provide unemployment benefits. Both of these issues focus on the state’s ability to address the welfare of individuals.

⁵In the appendix, Table A1 shows the experimental balance. Table A2 presents the list of names and the text of the messages in each country’s language.
contain information addressing the question, while we assign 0 to responses that ask for the sender’s location of residence without offering any help. Therefore, replies that do not provide any information, automatic replies, and lack of replies are all coded as 0 (see McClendon 2016; Butler 2014 for a similar approach).6

**Ethical considerations**

There are some ethical concerns that we seriously considered before conducting our study. First, to minimize the burden placed on MPs, we ensured that the costs associated with responding to our messages would be relatively low for MPs. We earnestly followed the advice from the literature (Butler and Broockman 2011; Broockman 2013; Druckman, Leeper, and Mullnix 2014; Grose 2014; McClendon 2012). Our messages were short, concise, and easy for MPs to answer. Most answers to our messages would include a few words of advice and a link to a website or the name of a governmental institution. We found that this was actually the case among the replies we received.

Second, our experiment involved deception regarding the identity of the sender, since our goal was to assess the different behavior of MPs to male versus female constituents. However, our study was not in violation of any laws in our countries of study. Moreover, our study was granted an exemption (category 3: elected officials) by the Office of Human Research Ethics, part of the Institutional Review Board at the University of North Carolina at Chapel Hill.7

Third, we were aware of the concern of many scholars about the risk of limiting the pool of legislators through recurrent field experiments on the same sample (Grose 2014; Naurin and Öhberg 2019). To our knowledge, our experiment was one of the first of its kind to be conducted with the sample of MPs we used in all our countries in Latin America and in most of our European countries.

**Case selection**

We include cases from Europe and Latin America. Since electoral systems may affect MPs’ extrinsic motivations to reply, within each region we selected countries with majoritarian (France and Chile), open-list proportional representation (PR) (Ireland, Netherlands, Colombia, and Brazil), and closed-list PR (Italy, Argentina, and Uruguay) systems. Germany and Mexico have a mixed electoral system, electing part of the legislature through majoritarian first-past-the-post and the other via closed-list PR. Further, within each region and for each electoral system, we selected a pair of countries with higher and lower percentages of female legislators in the lower house of parliament. Therefore, we have five European countries and six Latin American countries.

Table 1 reports the general response rate. Variation across countries is large, with the response rate ranging from 5.7% in Mexico to 89.2% in Ireland. The rates are

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6As a robustness check, in the appendix we ran the analysis coding each reply that we received as 1, regardless of its content and whether relevant information was provided. Results remain substantially unchanged. We also include examples of a “real reply” and a reply that does not include any information.

7This follows the view that elected officials have put themselves in a position of power and thus are used to the scrutiny of different groups, including academics. IRBs are generally prone to grant exemptions to elite experiments. For further discussion on the matter, see Grose (2015).
generally higher in Europe, although two Latin American countries – Uruguay and Chile – produced rates greater than the ones observed in France and Italy. Readers should be careful about making comparisons between countries since MPs’ status and expected duties vary across cases. These differences, however, do not interfere with the experimental treatment because both male and female aliases within countries are exposed to the same conditions.

Results

Overall, women receive significantly more replies than men. The general response rate is 26.2% for women and 23.2% for men ($p$-value = 0.03). This finding is quite surprising if one considers previous null results in the literature (Butler 2014; Kalla, Rosenbluth, and Teele 2017) and the fact that women face discrimination in many aspects of politics.

Evaluating response rates across regions (Table 3), we find that women received more replies in Europe, where the impact of gender is consistent across countries. In Latin America, in contrast, women received more replies only in Brazil, Chile,

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**Table 1**

<table>
<thead>
<tr>
<th>Europe</th>
<th>Response rate (%)</th>
<th>Latin America</th>
<th>Response rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>21.6</td>
<td>Argentina</td>
<td>7.8</td>
</tr>
<tr>
<td>Germany</td>
<td>53.5</td>
<td>Brazil</td>
<td>6.4</td>
</tr>
<tr>
<td>Netherlands</td>
<td>42.3</td>
<td>Chile</td>
<td>22.5</td>
</tr>
<tr>
<td>Ireland</td>
<td>89.2</td>
<td>Colombia</td>
<td>6.1</td>
</tr>
<tr>
<td>Italy</td>
<td>17.6</td>
<td>Mexico</td>
<td>5.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uruguay</td>
<td>25.3</td>
</tr>
<tr>
<td>Total</td>
<td>36.3</td>
<td>Total</td>
<td>8.8</td>
</tr>
</tbody>
</table>

**NOTES**: France and Chile have majoritarian systems. Netherlands, Colombia, and Brazil use open-list PR; Ireland uses a PR single transferable vote. Italy, Argentina, and Uruguay use closed-list PR. Germany and Mexico have a mixed electoral system. Germany elects 299 MPs through majoritarian first-past-the-post and the remaining (roughly) through a closed-list PR system; Mexico elects 300 MPs through majoritarian first-past-the-post and 200 members through closed-list PR.

**Table 2**

<table>
<thead>
<tr>
<th>Overall MPs Response Rate to Female and Male Citizens</th>
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<tbody>
<tr>
<td>Overall response rate</td>
</tr>
<tr>
<td>Male (%)</td>
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<tr>
<td>Female (%)</td>
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<tr>
<td>23.2</td>
</tr>
<tr>
<td>26.2</td>
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</tbody>
</table>

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8The $p$-values reported in the article are from two-tailed hypothesis tests.

9As a robustness check, the appendix reports the statistical analysis with covariates. We also show the findings of the analysis that excludes Ireland and Argentina, where the experiments were conducted a few months before the other countries. Results remain unchanged.
and Mexico. Overall, the largest differences in response rate to female versus male citizens emerge in France (5.7% points), Germany (5.4% points), and Chile (5% points).

Why do women receive more responses? The answer lies in the greater responsiveness of female MPs to women. While both male and female MPs reply more to women, the difference in response rates, conditional on the constituent’s gender, is

<table>
<thead>
<tr>
<th></th>
<th>Europe</th>
<th>Latin America</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male (%)</td>
<td>Female (%)</td>
</tr>
<tr>
<td>France</td>
<td>18.7</td>
<td>24.4</td>
</tr>
<tr>
<td>Germany</td>
<td>50.8</td>
<td>56.2</td>
</tr>
<tr>
<td>Ireland</td>
<td>88.6</td>
<td>89.9</td>
</tr>
<tr>
<td>Italy</td>
<td>16.2</td>
<td>19</td>
</tr>
<tr>
<td>Netherlands</td>
<td>40.5</td>
<td>44</td>
</tr>
<tr>
<td>Total</td>
<td>34.2</td>
<td>38.4</td>
</tr>
</tbody>
</table>

NOTES: The total number of emails sent within each country was 3,685. France: 561; Germany: 630 (majoritarian: 287; PR: 343); Netherlands: 149; Ireland: 158; Italy: 630; Mexico: 458 (majoritarian: 280; PR: 178); Chile: 120; Colombia: 115; Brazil: 514; Argentina: 255; Uruguay: 95.

Figure 1

MPs response rate to female and male citizens conditional on MPs gender in Europe and Latin America. 
NOTES: The only statistically significant difference is that between the proportion of female MPs who replied to women (43.9%) and the proportion of female MPs who replied to men (35.6%) in Europe; \( p \)-value = 0.03.
larger for female elected officials. 30.3% of female MPs replied to women, but only 25.8% replied to men (difference = 4.5% points; \(p\)-value = 0.10). In contrast, 24.5% of the male MPs replied to women, compared to 22% who replied to men (difference = 2.5% points; \(p\)-value = 0.13). \(^{10}\)

Further exploring regional variation, Figure 1 reveals that female MPs were more likely to reply to women than to men in Europe but not in Latin America. In Europe, the difference between the proportion of female MPs who replied to women (43.9%) and the proportion of those who replied to men (35.6%) is 8.4 % points (\(p\)-value = 0.03). In comparison, the response rate of male MPs to women is not statistically significantly different from their response rate to men (36% vs. 33.5%, \(p\)-value = 0.32). In Latin America, neither of these differences is statistically significant.

While our data do not allow us to test why our results are attenuated in Latin America, we can speculate that this is due to the fact that the connection between descriptive representation and substantive representation is still germinal in Latin American countries. Although women have achieved improved political inclusion in the region – mainly due to the implementation of gender quotas – they still struggle to achieve representation (Htun 2016; Schwindt-Bayer 2018).

Conclusion

We conducted the first large-scale audit experiment in 11 countries across Europe and Latin America to evaluate gender bias in elected officials’ responsiveness to citizens seeking access to government services. We find that women are more likely to receive a reply than men (+3% points). This effect is stronger in Europe (+4.3% points). In Europe – but not in Latin America – this is due to the fact that female MPs replied more often to women (+8.4% points). Our findings differ from the results of previous audit studies on gender bias, which mostly focused on political mentorship and generally found null effects. This matters especially because the messages in our experiment concern issues that are highly relevant in each region and that crucially affect the well-being of individuals.

What should we make of the finding that female legislators exhibit positive bias toward women? In an ideal society where discrimination is absent, women and men should be equally well represented and benefit from similar responsiveness. However, women have for a long time been marginalized in politics and society. Previous observational work on gender and politics has highlighted the importance of descriptive representation to advance the substantive representation of women. Across countries, female legislators have promoted legislation advancing women’s rights and interests (O’Brien and Piscopo 2019; Schwindt-Bayer 2006; Swers 2002). Here we show that the presence of women in parliament bolsters another dimension of substantive representation, inasmuch as helping constituents access government services is a core function of elected officials. Having more women in parliament is therefore important not only because it improves public policy outcomes for women but also because it leads to higher responsiveness to women.

\(^{10}\)In contrast, party ideology does not significantly interact with the treatment. MPs from left-wing parties are neither more nor less likely to reply to women than MPs from right-wing parties.
Our results meaningfully deviate from previous work on racial and ethnic minorities, which has found bias against minorities contacting public officials. Part of this difference could be explained by sheer numbers: women tend to be represented in parliament in greater absolute numbers than other marginalized groups. As a result, the greater responsiveness of female MPs toward women produces effects visible at the aggregate level. Women may also find allies more often than racial minorities, given the connection that most (male) MPs have with women in their lives. In this regard, work on LGBT rights suggests that the rapid increase in recent years in support for gay rights lies in personal connections with LGBT individuals, who are present in most families and across geographic and socio-economic contexts – something that usually does not happen for racial minorities (Rosenfeld 2017).

Our study is unique because of its geographical breadth spanning across Europe and Latin America. Most of the existing audit studies were conducted in the USA, and the vast majority of studies outside the USA were single-country experiments. The regional variation in our findings warns against taking for granted that results emerging in a specific country or region will travel to other countries. Although we find that female legislators are significantly more responsive to women in Europe, we do not find the same trend in Latin America. Future experimental work should therefore further consider the impact of different historical, institutional, and cultural contexts on the emergence of bias in the interaction between citizens and legislators.

Supplementary material. To view supplementary material for this article, please visit https://doi.org/10.1017/XPS.2020.23

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Cite this article: Magni G and Ponce de Leon Z. Women Want an Answer! Field Experiments on Elected Officials and Gender Bias. Journal of Experimental Political Science. https://doi.org/10.1017/XPS.2020.23