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**'Identify the Expert': an Experimental Study in Economic  
Advice**

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# ‘Identify the Expert’: an Experimental Study in Economic Advice

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## Abstract

We develop the ‘identify the Expert’ task and run preregistered online experiments on a representative sample. Participants receive recommended answers to an economics questionnaire by two computerized advisors. One advisor is of high-accuracy (‘the Expert’) and recommends the answers produced by academic consensus. The other advisor is of low accuracy (‘the Populist’), and recommends the modal answers of participants from a pilot study. Participants do not know who the Expert is, and have to judge this from the recommendations. We examine which advisor participants identify as the Expert via revealed preference, i.e. participants select an advisor to answer the questionnaire on their behalf. Decision makers overwhelmingly choose the Populist, even when fully informed about the advisors’ modus operandi. Bayesian models fail to explain these choices, even in the degenerate case where participants should be able to identify the Expert with 100% accuracy. Overconfidence in one’s ability accounts for advisor choice only partially, while ego-involvement cannot explain behavior. These results are relevant for a wide range of everyday expert selection tasks.

Keywords: Democracy, Economic Literacy, Expert Advice, Populism.

JEL Codes: C91, A11

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# 1 Introduction

τότ' ἔφη τὰς πόλεις ἀπόλλυσθαι, ὅταν μὴ δύνωνται τοὺς  
φάλους ἀπὸ τῶν σπουδαίων διακρίνειν  
Cities, said he, fail when they cannot distinguish  
fools from great men.

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*Antisthenes*

Democracies are faced with a constant trade-off between involving expert technocrats in shaping public policy and giving a meaningful voice to laypeople (Caplan, 2011; Chakraborty et al., 2020). This tension has not faded in the last decades. On the contrary, scholars suggest that the advent of social media has amplified the gap between experts and laypeople, as public debate is increasingly shifting from traditional media to online platforms (Gillespie, 2018; Allcott et al., 2020). We unpack a specific aspect of this tension, by asking whether laypeople are able to distinguish the opinions of experts from those of other laypeople in the first place. In a set of preregistered online experiments we show that a populist non-expert whose advice agrees with the public’s priors but has no concern for the truth, outperforms a true expert systematically.

We focus on economic expertise, which is presumably of high importance in modern democracies, and present participants with no other information except the opinions of the potential advisors. In our treatments we find that most participants robustly choose the non-expert as advisor, not only because of overconfidence in their own knowledge, but mainly because they fail to discover a simple but powerful heuristic: choosing advisors you agree with is only a good idea if you are knowledgeable enough already. The implication is that in technical and counterintuitive subjects (such as economics) most people, not being knowledgeable, should be choosing advisors *they actually disagree with!*

To be more precise, we employ an economics questionnaire (validated by experts) in a two-stage experiment with participants from the general population in England and Wales. In Stage 1, participants first provide their own answer and then see the suggested answers of two computerized ‘advisors’ on the same questions. One advisor is the ‘Expert’, who is designed to give the answer deemed correct by the academic consensus.<sup>1</sup> The other advisor is the ‘Populist’ who, for each

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<sup>1</sup>We distributed an expanded version of our questionnaire to academics in economics departments in Europe and the USA. Questions which received more than 70% agreement were validated and these answers became the choices of

question, proposes the most popular answer from a pilot study. Participants do not know which advisor is the Expert, they only see in words the recommendations which the two advisors make. Furthermore, they receive no other information that could operate as a cue, such as credentials, visual characteristics or exhibited confidence. Subsequently, in Stage 2, after observing a summary of the recommendations by both advisors, participants are asked to pick one advisor to answer all of the questions on their behalf. They are financially incentivized to answer correctly in Stage 1 and to select the Expert in Stage 2.

We deploy three experimental treatments to examine a number of pre-registered hypotheses. Treatments are identical with respect to Stage 1, but vary the information presented to participants in Stage 2. In the baseline treatment (Treatment 1), participants review the answers they provided to each question and the recommendation of the two advisors from Stage 1, but do not know how accurate their responses to the questionnaire have been. In Treatment 2, they learn how many questions they answered correctly in Stage 1, in addition to the information of the baseline treatment. Finally, Stage 2 of Treatment 3 provides similar information as Stage 2 of Treatment 2, but with respect to another participant. That is, in Stage 2 of the third treatment, each participant sees the summary table of answers and the two advisors' recommendations referring to a third participant from a prior experimental session. They also see how many correct answers that third participant had in Stage 1. For future reference, we shall call the person whose choices a participant observes in Stage 2 (the participant themselves in Treatments 1 and 2 or the third person in Treatment 3) as the Decision-Maker.

The baseline treatment tells us whether people can distinguish the Expert from the Populist. Treatment 2 examines the extent to which overconfidence in their ability to answer the questionnaire drives performance in selecting the Expert. Treatment 3 tests whether presenting the problem from a third-person perspective helps reduce ego-involvement and improve performance (choosing the Expert) in Stage 2. Our results indicate that in economic matters people have a strong tendency to follow advisors who suggest similar answers to their own priors, which often leads to a mistaken choice of advisor. Indeed, in all three treatments, the percentage of participants who chose the Expert in Stage 2 is significantly below 50%. On average, *a participant would do better by selecting an advisor at random rather than using their intuition*. In our experimental environment, participants are fully informed of how the two advisors choose their answers. Sophisticated individuals lacking expertise in economics should infer that the Decision-Maker is more likely to have more common

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the Expert. The online Appendix describes the details of our validation exercise.

answers with the Populist than with the Expert. This rational inference requires no feedback or experience. Yet, the large majority of participants fail to infer correctly who the Expert is.

In Treatments 2 and 3 in particular, participants know that the Expert is always correct and they also know the Decision-Maker’s number of correct answers. Sophisticated participants should infer that the Expert is the advisor who has as many common answers with the Decision-Maker as the latter’s number of correct answers. Nonetheless, participants’ performance improves only marginally in comparison to Treatment 1, and it does not exceed 50% in either treatment. Overconfidence seems to play a role, since in Treatment 2, where participants receive feedback on their performance in Stage 1, they perform significantly better than in Treatment 1. On the other hand, ego-involvement does not seem to play a role: in Treatment 3 participants performed no better than in Treatment 2. All of the above findings are also confirmed in several regression specifications that we run.

These preregistered results were obtained in a concrete applied setting, using a relatively large sample of the general population and focusing on a single aspect: the content of advice. In addition, the experiments were conducted online. There are two important reasons for these choices. Firstly, we want to abstract away from the multitude of reasoning and psychological factors which underpin evaluations of credibility (see [Bonaccio and Dalal, 2006](#) for a review), so as to build a valid benchmark for subsequent research. Secondly, social media platforms, which are often suspected as the main culprit for the public’s mistrust of experts ([Allcott et al., 2019](#); [Pennycook et al., 2020](#)) naturally lend themselves to these features. Therein laypeople exchange opinions and views on all sorts of issues, with no physical presence, and with scant cues on one’s knowledgeability other than one’s own opinion on the issue at hand. Therefore, it is sensible to ask whether laypeople can distinguish expertise in such an information setting. Thus, our experimental design likely contributes to the ecological validity and generalizability of our results. If indeed these results generalize, it appears likely that a shrewd populist, who promotes the most popular view on any issue, would have a good chance of gaining public support in a contemporary western democracy.

To our knowledge, this is the first experimental study of the ‘identify the Expert’ problem: one where participants try to distinguish who the real expert is. Prior studies of expertise typically identify the source of information and examine the effect on participants’ beliefs or choices regarding the subject of interest ([Algan et al., 2021](#); [Bailey et al., 2022](#); [Amaral-Garcia et al., 2022](#)). We study the challenge of identifying true experts in an environment with an abundance of information, but a lack of usable credentials. Our theoretical and empirical results regarding Treatment 1 (in

particular, the popularity of the populist) are consistent with the model by [Gentzkow and Shapiro \(2006\)](#) where, in the absence of any feedback, people simply infer that sources of information closer to their priors are the correct ones. However, in our two further treatments the additional information provided is sufficient to identify the Expert regardless of one’s priors. Our participants’ systematic failure to do so indicates the possible existence of a deeper behavioral mechanism, which we discuss in section 3.

Populism as a subject area has received significant attention by researchers lately. Examples of this include [Mudde and Kaltwasser \(2017\)](#), [Fetzer \(2019\)](#), [Autor et al. \(2020\)](#), and [Funke et al. \(2020\)](#). [Guriev and Papaioannou \(2022\)](#) provide an extensive literature review and pose some open questions for new research. For instance, why do populists exhibit heterogeneous policy platforms, covering both extremes of the political spectrum? We examine this question from the demand side and provide a partial answer as follows. Since the median voter is more likely to deem a policy that panders to her priors as a good one, a populist selecting the most popular opinion on every policy dimension improves his election chances considerably. This strategy implies substantial variation in populists’ policies, as the median voter’s preferences change across regions and times.

Our work builds naturally on an established literature, which document differences in beliefs and perceptions between professional economists and laypeople. [Sapienza and Zingales \(2013\)](#) show that the median American has different views from the median American economist. [Andre et al. \(2022\)](#) document the diversity of opinions of laypeople in terms of the implicit models they use for the macro-economy and how they diverge from economists’ models. Within this literature, the dispersion of beliefs both within laypeople and academics is well documented ([Blendon et al., 1997](#); [Gordon and Dahl, 2013](#); [Angeletos et al., 2021](#)). We acknowledge this divergence and through our validation exercises, we document it as well. But the main interest here is the important policy implication it generates when populists exploit the opinion gap between laypeople and experts in order to direct attention to themselves.

We also examine the problem of expert choice in a concrete applied context with clear theoretical predictions, while the economics literature has hitherto focused on abstract or hypothetical domains. [Chakraborty et al. \(2020\)](#) study theoretically the role of experts in electoral competition and contrast it to a populist alternative. Unlike their setting, the interests of experts and participants are aligned in our experiment and there is no potential benefit from picking the non-expert. [Ronayne and SgROI \(2018\)](#) and [Schotter \(2003\)](#) examine how individuals respond to advice, while we are interested in a different question, employing a design where advisors effectively compete

for attention. [Krishna and Morgan \(2001\)](#) and [Gentzkow and Shapiro \(2006\)](#) study competition for information provision when the information sources are biased and care for their reputation. Unlike these papers, our participants are not necessarily sophisticated, and we are interested in the demand side of the problem (i.e. how advisees chose whom to heed) rather the supply side (i.e., optimal strategies for advisors). Indeed, in our experiments, participants are informed about the exact modus operandi of the two advisors and there is no conflict of interest. Recent empirical studies, such as [Aksoy et al. \(2020\)](#) and [Algan et al. \(2021\)](#), examine how laypeople come to trust expert advice and what factors may underline such decisions. However, in these papers, competition between different parties for unsolicited advice-giving is not examined.

Our study is also related to the burgeoning literature on competing media sources and polarisation. Several papers assume or investigate people’s preference for bias ([Oliveros and Várdy, 2015](#); [Chopra et al., 2022](#); [Bursztyn et al., 2022](#); [Thaler, 2021](#)). In our paper we shut down the preference channel using Treatment 3, since people are choosing on behalf of others and explicitly rewarded for choosing an “objectively” correct source. Our results indicate that at least part of the problem lies in people’s inability to identify good sources of information, not merely in motivated beliefs.

The remainder of the paper is organized as follows. Section 2 presents the theoretical framework with our main predictions, and describes the conducted experiments in detail. Section 3 presents the empirical results, while section 4 concludes.

## 2 Theory and Experimental Design

The basic design is a simple two-stage computerized and incentivized experiment with the following structure. Participants are exposed to an economics questionnaire of ten multiple-choice questions, with two options each.<sup>2</sup> In Stage 1, they are asked to answer each of these ten questions without any feedback, and to record their confidence in their answer on a scale from 0 to 100. After answering each question, they observe the proposed answer by two ‘advisors’. They are informed that one of them is a high-accuracy advisor, who answers all questions correctly. The other advisor is of low-accuracy, for whom participants know that he answers only four out of the ten questions correctly (i.e. according to academic consensus).<sup>3</sup>

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<sup>2</sup>See section 2.3 for more details about the questionnaire, which we first introduced in [Alysandratos et al. \(2020\)](#). The full set of questions are available in our online Appendix.

<sup>3</sup>In all three treatments, participants are fully informed about the process by which the low-accuracy advisor choose their answers and of the percentage of participants that gave the most popular answer (for each question) in the pilot study that determined the Populist’s answers.

Stage 2 follows after participants answer all questions in Stage 1. They then view a summary of information on the selections they made and the recommendations of the two advisors in Stage 1 (see the online Appendix for details). On the basis of this information, participants are asked to select an advisor, who will answer the *same* questionnaire on their behalf, allowing them to earn money for every correct answer of the selected advisor. Stage 1 is common in all three treatments, while experimental manipulations are introduced in Stage 2 as follows:

- **Treatment 1 (Baseline.)** In Stage 2 of the baseline participants receive a table, which shows their Stage-1 answers to each question and the corresponding recommendations of the two advisors. Participants *do not* receive any feedback on how many correct answers they gave in Stage 1.
- **Treatment 2 (Addressing Overconfidence.)** In Stage 2 participants view the same type of table as in the baseline. In addition, they are shown the number of questions they answered correctly in Stage 1.
- **Treatment 3 (Addressing Ego-involvement.)** In Stage 2 participants are given the same information as in Treatment 2, but in relation to another person. That is, each participant is shown the number of correct answers, the answers to the questionnaire and the corresponding recommendations of the two advisors referring to another person who previously participated in Stage 1. The participant’s task is still to choose one of the advisors pertaining to the given table to answer the questionnaire on the participant’s (not the Decision-Maker’s) behalf and the choice is incentivized.<sup>4</sup>

## 2.1 Theoretical Predictions

In this section we present theoretical predictions and testable hypotheses for our experimental treatments. A simple Bayesian model captures the decision process of a rational participant, and, as we shall see, its predictions are greatly simplified for Treatments 2 and 3. Suppose that there are three agents: the participant P, advisor A, and advisor B.<sup>5</sup>  $\mathcal{G} = \{P, A, B\}$  denotes the set

<sup>4</sup>To avoid confusion, participants are explicitly told that the order of questions in the table is different from their own from Stage 1. So, when participants choose advisor at Stage 2 of Treatment 3, they do not know the advisors’ responses to individual questions. This treatment is designed to counter ego-involvement, since someone may be reluctant to select an advisor with different answers from her own, because that would contradict her original choices from Stage 1.

<sup>5</sup>In the experiment we used the labels ‘J’ and ‘M’ to avoid priming the subjects with ordering effects.



of Players. There is a set  $\mathcal{Q}$  of questions, with cardinality  $Q$ . Each question  $q$  has two candidate answers and only one is correct. Let  $\mu_q$  be the participant's prior of their own answer on question  $q \in \mathcal{Q}$  being correct.

By construction, the Expert always provides the correct answer to each question. The Populist gives the same answer as the participant in question  $q$  with probability  $\pi_q$ , which is the fraction of laypeople who gave the most popular answer to question  $q$  in the pilot study with an identical sample frame. There are two states of the world. In state  $s = 1$ ,  $A$  is the Expert and  $B$  is the Populist. In state  $s = 2$  the reverse happens, namely  $A$  is the Populist and  $B$  is the Expert. For simplicity, both states are assumed to have an equal prior probability:  $prob_0(s = 1) = prob_0(s = 2) = 1/2$ , which is a natural assumption in the absence of other information.

The participant observes recommendations by the two advisors on each question. Formally,  $P$  observes  $a = \{a_A, a_B\}$ , with  $a_A = \{a_{A1}, a_{A2}, \dots, a_{AQ}\}$  and  $a_B = \{a_{B1}, a_{B2}, \dots, a_{BQ}\}$ , where  $a_{iq}$  denotes the choice of player  $i \in \mathcal{G}$  on question  $q \in \mathcal{Q}$ . Thus, by comparing the answers of the two advisors to her own,  $P$  constructs the set  $X$  of questions for which she has common answers with  $B$  and the set  $Y$  of questions with common answers with  $A$ . In notation,  $X = \{q \in \mathcal{Q} | a_{Pq} = a_{Bq}\}$  and  $Y = \{q \in \mathcal{Q} | a_{Pq} = a_{Aq}\}$ .  $X^C$  and  $Y^C$  are the complements of  $X$  and  $Y$ , namely the sets of questions with non-common answers with  $B$  and  $A$ , respectively. The question is how a rational participant evaluates the posterior probabilities of states 1 and 2 given the sets  $X$  and  $Y$  and the priors  $prob_0(s)$  and  $\mu_q$ . The solution to this simple Bayesian problem is given by equations (1) and (2) below:

$$Prob(s = 1 | X, Y) = \frac{prob_0(s = 1)}{prob_0(s = 1) + prob_0(s = 2) \times OR} \quad (1)$$

Where

$$OR \equiv \frac{prob(X, Y | s = 2)}{prob(X, Y | s = 1)} = \frac{\prod_{q \in X} \mu_q \prod_{q \in X^C} (1 - \mu_q) \prod_{q \in Y} \pi_q \prod_{q \in Y^C} (1 - \pi_q)}{\prod_{q \in Y} \mu_q \prod_{q \in Y^C} (1 - \mu_q) \prod_{q \in X} \pi_q \prod_{q \in X^C} (1 - \pi_q)} \quad (2)$$

Expressions (1) and (2) can be precisely estimated with the use of our experimental data. In particular, participants' subjective prior beliefs  $\mu_q$  on the correctness of each answer is elicited after participants answer each question. The probability  $\pi_q$  of having a common answer with the Populist in question  $q$  is derived from the pilot study: it is the fraction of participants in

the pilot giving the most popular (i.e. modal) answer. Note that our participants in the main experimental treatments are informed of this fraction for each question. This allows us to construct a benchmark of rational beliefs regarding the advisor most likely to be the Expert, and whom a money-maximizing participant would select at the end of Stage 2.

Furthermore, note that for experimental Treatments 2 and 3 the computations for Expressions (1) and (2) are greatly simplified. This is because, in these two treatments, participants know the number of correct answers of the Decision-Maker. In addition, they know that the Expert is always correct. These two facts imply that *the Decision-Maker has as many common answers with the Expert as the Decision-Maker's number of correct answers*. In other words, the Expert is always the advisor who exhibits as many common answers with the Decision-Maker, as the latter's number of correct answers. Thus, a rational participant in Treatments 2 and 3 identifies the Expert with 100% accuracy, unless the two advisors have the same number of common answers with the Decision-Maker.

## 2.2 Our Research Hypotheses

We preregistered a series of research hypotheses at the depository of the Open Science Framework, using the OSF template.<sup>6</sup> There we described the preceding model and its predictions. We also specified the research design, hypotheses, sampling plan, variables, and statistical analysis plan. The main preregistered research hypotheses at the aggregate level were the following:

- H1:** In issues of economic policy, participants systematically select advisors with opinions similar to their own, even if they know that populist (non-expert) advisors strategically express similar opinions to participants. As a result, participants typically select populists. [Directional hypothesis for Treatment 1: the percentage of participants choosing the Expert is lower than the percentage choosing the Populist].
- H2:** Feedback on the participants' performance in addressing economic policy issues diminishes the tendency to select the Populist (Overconfidence Hypothesis). [Directional hypothesis: the percentage of participants choosing the Expert in Treatment 1 is lower than the percentage choosing the Expert in Treatment 2].
- H3:** Eliminating the direct connection between advisors' opinion and participants' opinion on the same subject diminishes the tendency to select the Populist ('Ego-Involvement' Hypothesis).

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<sup>6</sup>The preregistration can be found in <https://osf.io/jr92p>.

[Directional hypothesis: the percentage of participants choosing the Expert in Treatment 3 is higher than the percentage choosing the Expert in Treatments 1 and 2].

**H4:** Participants who lean on the right politically agree more often with economic experts. [Directional hypotheses: Participants with political preferences above the median in the left-to-right scale have more correct answers and select the Expert more frequently in all treatments].

## 2.3 Experimental Implementation

We run our experiments online, with the key experimental manipulation pertaining to the information provided in Stage 2 and using the real questionnaire of economic reasoning introduced in [Alysandratos et al. \(2020\)](#).<sup>7</sup> The correct answers (corresponding to the Expert’s recommendation) were validated by the consensus of academic economists, as described in [Alysandratos et al. \(2020\)](#) and as reproduced in our online Appendix. All of our experiments took place in the Fall of 2021. Before we run the main experimental sessions, we run a pilot study where laypeople provided their answers to the questionnaire without any feedback or any recommendations. A sample of 120 participants, representative of the general population in England and Wales in terms of age and sex, were recruited for this pre-study via Prolific. The answers of the low accuracy advisor (whom we term ‘Populist’ here) were the modal answers from this pilot, i.e. the answers which were selected by the highest number of participants. Four of these ten modal answers coincide with the correct answers, hence the ‘Populist’ has four correct answers.

For the main experiment, recruitment was also conducted via Prolific with the same sample frame. Each treatment contained 200 participants, selected to be representative of the general population in England and Wales in terms of age and sex. Screenshots with exact instructions can be found in the online Appendix. Furthermore, correct answers were incentivized in both stages. For every correct answer they gave in Stage 1, participants earned £0.07. In Stage 2, if they selected the Expert they received £3.15 and if they selected the Populist they received £1.05. After the main part of each experimental session, participants answered a short questionnaire on demographics and socio-political views. A quick summary of the above information is presented in [Table 1](#).

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<sup>7</sup>We diverged slightly from that questionnaire, in that we reduced the number of options to two, instead of four. This was done in order to simplify the theoretical model and get sharper predictions.

<b>Experiment</b>	
Sample size	600 for the main experiment 120 for the pre-study
Mode of administration	Online
Recruitment platform	Prolific Representative of England and Wales in terms of age and sex
Expert’s accuracy	100%
Populist’s accuracy	40% Always the modal answer from the pre-study
Questionnaire	MCQ with 2 options + belief elicitation
Treatments	Treatment 1: Baseline Treatment 2: Addressing Overconfidence Treatment 3: Addressing Ego-involvement

**Table 1:** *Summary of the experiment.*

	UK National	High Income	Married	Female Sex	Attended Uni	Age
<b>Treatment 1</b>	0.920	0.465	0.390	0.510	0.650	44.3
<b>Treatment 2</b>	0.890	0.530	0.385	0.515	0.655	45.2
<b>Treatment 3</b>	0.875	0.475	0.395	0.505	0.590	45.5

*Notes:* Although absence of significant differences does not provide conclusive evidence of equivalence, we note that no test yielded statistically significant differences at the conventional levels. Proportion tests show no statistical differences between the participants in the three treatments with respect to nationality (p-value = 0.327), high income (p-value = 0.375), marital status (p-value = 0.979), sex (p-value = 0.980) and educational level (p-value = 0.325). A Kruskal-Wallis test finds no difference with respect to age across the three treatments (p-value = 0.667).

**Table 2:** *Summary of main demographics across treatments.*

Table 2 gives a break-down of the three treatments across several important demographic variables. Apart from the average age of participants, the table illustrates the proportions of participants that 1) are UK nationals, 2) have income higher than £ 30,000, 3) are married or in a civil union, 4) are female and 5) have at least undergraduate university education. As we can see, the differences across treatments are relatively minor. This demographic information will be incorporated in the regression analysis (see section 3.4).

### 3 Results

Starting with the participants' performance in the questionnaire, they found some questions more difficult than others. Table 3 describes the fraction of participants that answered correctly each of the ten questions at Stage 1. As can be seen, Question 3 was the most difficult one, since less than a third of participants gave the correct answer. On the other hand, Question 6 was the easiest one, with more than 80% of participants giving a correct answer. In general, participants in the three treatments answered similarly in Stage 1 for the ten questions. It also needs to be emphasized that the pilot study accurately predicted the most popular answers for each question. In particular, for every single question the most popular answer from the pilot (hence, the Populist's answer) was the answer provided by the majority at Stage 1 of the main experiment.

In terms of our main results, the experimental evidence supports our pre-registered hypotheses H1 and H2 at the aggregate level. Figure 1 shows the frequency of participants choosing the Expert and the Populist when aggregating participants across all three treatments. As we can see, less than 50% of participants choose the Expert, despite the fact that there are only two options, meaning that random choice would be successful on average half of the time. This result indicates that the Populist is highly successful in presenting themselves as the high-accuracy advisor by emulating the answers of the modal participant.

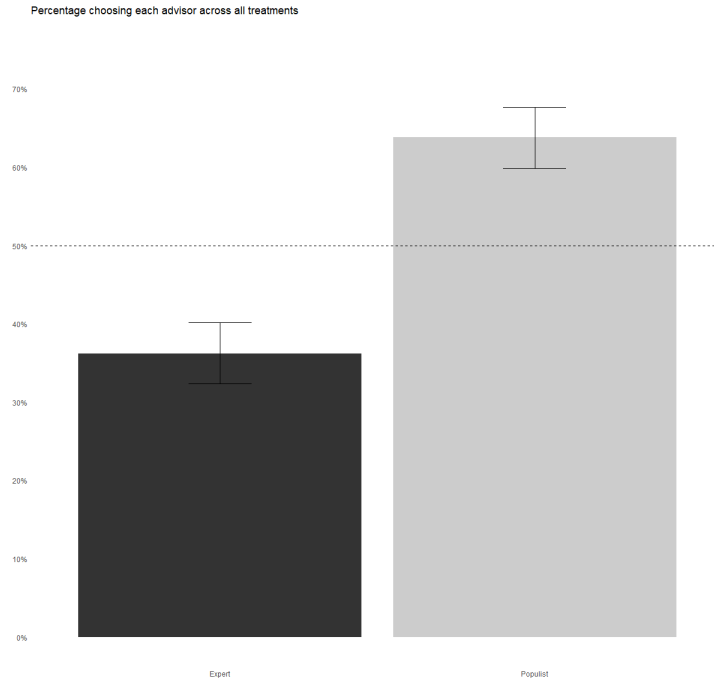
Figure 2 illustrates the main treatment effects. The main result of Figure 1 also holds true in each treatment individually: participants' selections perform worse (in finding the Expert) than random choice. This consistency of the 'success' of the Populist's strategy across the three treatments is important, given that we are examining multiple hypotheses with discrete samples. Hypothesis H1, which concerns the Populist's success, seems to be strongly and consistently borne by the data. The proportion of those choosing the Expert in the baseline treatment is 32.5%, significantly lower than 50% (as per H1) according to Z-test or a Chi-Square test ( $p < 0.0001$ ). The propensity to

Question	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Average correct answers
<b>Treatment 1</b>	0.415	0.440	0.205	0.780	0.795	0.825	0.310	0.33	0.475	0.670	5.24
<b>Treatment 2</b>	0.435	0.410	0.270	0.785	0.810	0.810	0.420	0.32	0.480	0.705	5.44
<b>Treatment 3</b>	0.375	0.345	0.210	0.840	0.795	0.835	0.435	0.38	0.485	0.780	5.48

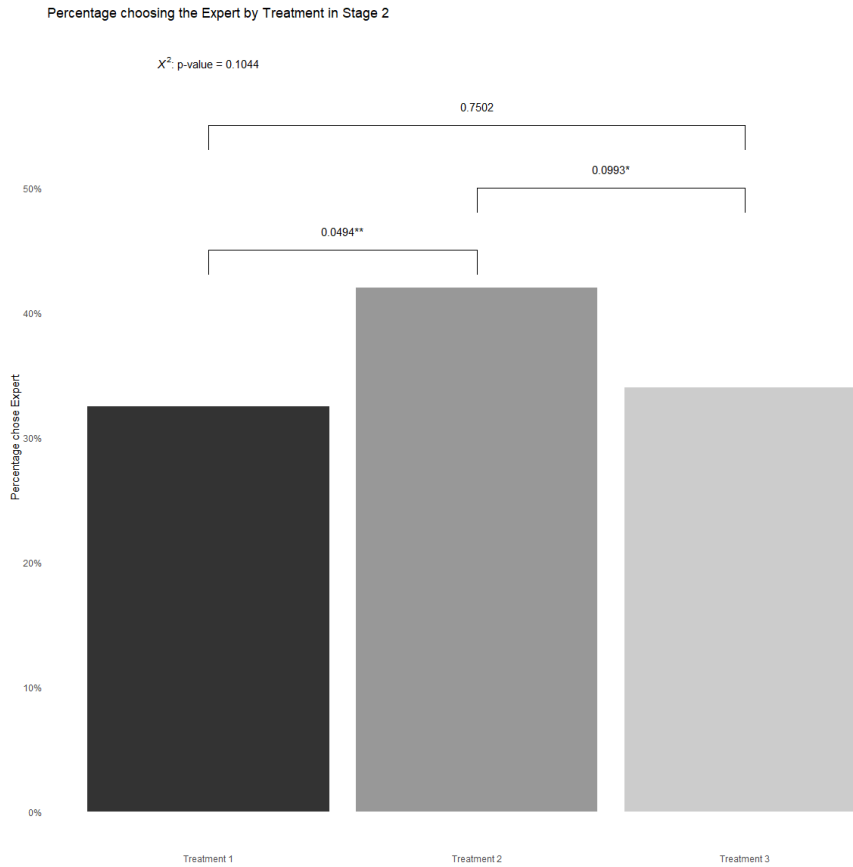
*Notes:* We employ Chi-Square tests for each question to look for differences in the proportion of correct answers across treatments. We find statistically significant differences only for question 7 (p-value = 0.02) and question 10 (p-value = 0.04). Using a Kruskal-Wallis rank sum test for the total number of correct answers across treatments, we find no statistically significant differences (p-value = 0.2681)

**Table 3:** *Participants’ accuracy in the economic questionnaire across the three treatments.*

select the Expert increases in Treatment 2 to 42%, an increase which is significant (as per H2) according to a Chi-Square test ( $p = 0.04942$ ). On the other hand, contrary to H3, Treatment 3, which purports to disengage ego-involvement, is unsuccessful in further increasing that propensity (the proportion of participants choosing the Expert was 34%, which is explained further in the following subsections).



**Figure 1:** *Percentage of participants choosing the Expert and the Populist over the entire sample of participants. The error bars show the conventional 95% confidence intervals, and the horizontal line at 50% denotes random choice.*

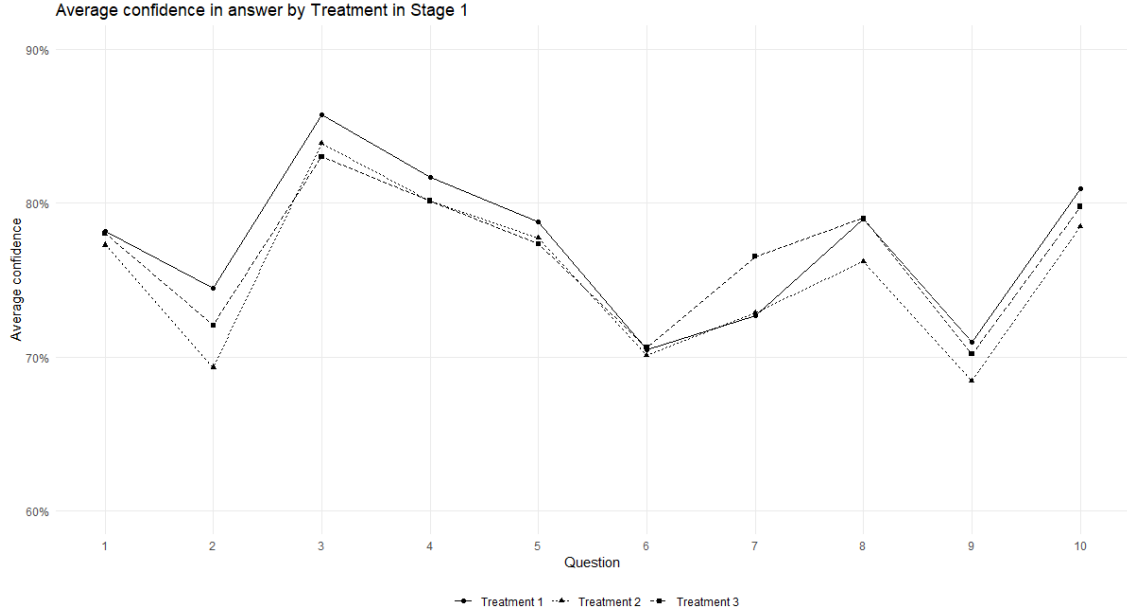


**Figure 2:** *Main treatment effects: percentage of participants choosing the correct advisor in Stage 2, by treatment. Horizontal lines show the p-values for chi-square tests for the differences between the treatments.*

### 3.1 The role of beliefs

A feature of our design is that we elicit participants’ level of confidence when answering the questionnaire in Stage 1. Recall that participants were asked to give a number ranging from 0 to 100 for each question they answered. Evidence on participants’ confidence is essential for having a theoretically-valid benchmark of rational decision-making, but it may also yield useful insights on the role of priors in our setting. While the elicitation of participants’ confidence was not incentivized, the evidence indicates that responses are non-random.<sup>8</sup>

<sup>8</sup>This is in accordance with [Trautmann and van de Kuilen \(2015\)](#), who show that incentives for belief elicitation seem to play little role in improving accuracy.

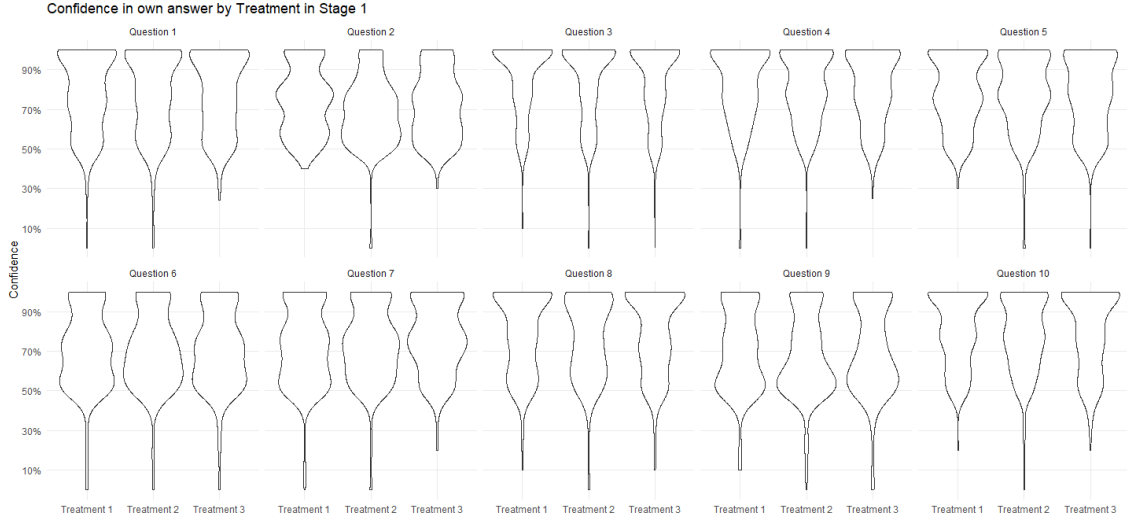


**Figure 3:** Average confidence in participant answers per question across treatments.

Figure 3 shows the average reported confidence in participants' answers for each question across the three treatments, while Figure 4 presents the density distribution for the values of elicited confidence. Three observations emerge from these graphs. First, there is substantial variation in the average confidence across questions. If participants were reporting randomly or without paying attention, we would not expect such variation. Secondly, there is high dispersion of exhibited confidence within each question, meaning that participants display varying degrees of confidence in their answers. Such heterogeneous degrees of confidence indicate that over-confidence may be a valid concern, which we address experimentally in our Treatments 2 and 3. Thirdly, the average elicited confidence in a particular question often diverges significantly from participants' propensity of a correct answer, as reported in Table 3. Hence, participants do not have well-calibrated beliefs on each question. Average confidence is a good proxy for the propensity to answer correctly only for a few questions.

In particular, only in questions 4, 5 and 10 is the average confidence comparable to the fraction of participants with correct answers. In questions 1, 2, 3, 7, 8 and 9, average confidence is 70% or above, while average accuracy is below 50% in all cases. Question 6 exhibits the opposite pattern, with 80% of participants answering correctly, but with average confidence of 70%. On the other end of the spectrum is question 3, where average confidence is over 80% in all treatments, whereas





**Figure 4:** *Distribution of reported confidence per question across treatments.*

accuracy is below 30%.

Indeed, digging deeper into the data reveals that the mismatch between true accuracy and beliefs does not come from a minority of individuals, but it is widespread across participants. For each question, we count the number of people who gave the wrong answer, while reporting confidence 70% or higher. Table 4 shows this count per question and treatment, along with percentages. While in question 6 this categorization captures only 33 participants (5.5% of all the total), in question 3 this increases to 401 participants (66.83% of the total). In questions 1, 2, 7 and 8, over 30% of total subjects fall in this categorization, which indicates that overconfidence is a wide-spread occurrence in our sample. Percentages falling in this category are of course higher when calculated as a fraction of participants who provided wrong answers. For example, over 60% of participants who gave the wrong answer in question 8, reported confidence above 70%. The results of Table 4 are consistent across treatments, and highlight systematic differences across questions.

A different potential measure of the disparity between beliefs and actual accuracy is the ratio of the average confidence in questions a participant answered wrongly, over the average confidence in questions where the same participant answered correctly. If this ratio is above (below) one, then the participant exhibits *badly (well) calibrated beliefs*. We can then count the fraction of participants with badly calibrated beliefs across the three treatments. We found that 94 (47.00%), 93 (46.50%) and 90 participants (45.00% of participants) had badly calibrated beliefs in Treatments 1, 2 and 3 respectively. Overall, 46.17% of all participants exhibited higher average confidence for the questions they answered wrongly. It seems that most of our participants are not well calibrated

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
<b>Count</b>										
Treatment 1	95	68	142	30	24	12	81	85	55	46
Treatment 2	85	59	124	22	17	10	61	83	52	41
Treatment 3	90	77	135	22	21	11	74	84	61	30
Total	270	204	401	74	62	33	216	252	168	117
<b>Percentage of all participants</b>										
Treatment 1	47.50%	34.00%	71.00%	15.00%	12.00%	6.00%	40.50%	42.50%	27.50%	23.00%
Treatment 2	42.50%	29.50%	62.00%	11.00%	8.50%	5.00%	30.50%	41.50%	26.00%	20.50%
Treatment 3	45.00%	38.50%	67.50%	11.00%	10.50%	5.50%	37.00%	42.00%	30.50%	15.00%
Total	45.00%	34.00%	66.83%	12.33%	10.33%	5.50%	36.00%	42.00%	28.00%	19.50%
<b>Percentage of wrong participants</b>										
Treatment 1	81.20%	60.71%	89.31%	68.18%	58.54%	34.29%	58.70%	63.43%	52.38%	69.70%
Treatment 2	75.22%	50.00%	84.93%	51.16%	44.74%	26.32%	52.59%	61.03%	50.00%	69.49%
Treatment 3	72.00%	58.78%	85.44%	68.75%	51.22%	33.33%	65.49%	67.74%	59.22%	68.18%
Total	76.06%	56.51%	86.61%	62.18%	51.67%	31.13%	58.86%	63.96%	53.85%	69.23%

**Table 4:** *Count and percentage of participants who answered wrongly each question and reported confidence in their answers of at least 70%.*

in economic manners.

### 3.2 Accounting for Participants' Behavior

We first need to address the empirical performance of our Bayesian model. Participants know that if the state of the world was actually  $s = 2$ , then Advisor A would be the Populist, whereas Advisor B would be the Expert. On the other hand, if the state of the world was actually  $s = 1$ , Advisor B would be the Populist, whereas Advisor A would be the Expert. Without loss of generality, assume that the true state of the world is  $s = 1$ . So, if a participant believes that the state is  $s = 1$  then she infers correctly the identities of the advisors, while if she believes that the state is  $s = 2$  then she infers them incorrectly. Using as inputs the participants' actual answers to questions 1-10, their reported beliefs on their confidence in their answers, and the recommendations of the Expert and of the Populist, we can estimate each participant's posterior and the Odds Ratio using Equations 1 and 2.

Since the natural prior is 50%, a simple result of this model is that participants with odds ratios less than one should infer that advisor A is the Expert and they should choose the Expert in Stage 2 if they are maximizing experimental earnings. On the other hand, participants with odds ratios greater than one should infer that advisor B (the actual Populist) is the Expert and should be

chosen in Stage 2. By juxtaposing predicted with actual behavior in Treatment 1, we find that 69% of participants choose advisor according to the predictions of the Bayesian model. In Treatments 2 and 3, the model predicts that participants choose the Expert whenever the amounts of common answers of the Decision-Maker with the two advisors differ. By restricting analysis to cases that satisfy this condition, we find that only 45.6% and 38.4% of the relevant participants in Treatments 2 and 3, respectively, choose according to the model’s prediction. The model achieves moderate predictive success in Treatment 1 and poor performance in Treatments 2 and 3.

This is an interesting result, because the main difference is that Treatment 1 does not provide feedback on performance and thus the Bayesian model is mainly guided by the precision of priors for this treatment. In our experiment, participants have badly calibrated priors (they are too confident on wrong answers and unsure on correct ones) and, as a result, the model is relatively accurate in predicting participants’ choices but very inaccurate in identifying the Expert. Out of 200 observations, the model selects the Expert in only 57 cases, a success ratio of only 28.5%. However, the extra information provided by the feedback in Treatments 2 and 3 is sufficient for the Bayesian model to become 100% accurate whenever the number of common responses with the participant differ across the two advisors, a feature which actual participants do not share. Less than half of participants in these treatments select the Expert even when restricting attention to cases with different numbers of common answers across advisors. As mentioned earlier, only 45.6% of participants in Treatment 2 and 38.4% of participants in Treatment 3 answer correctly in Stage 2, whereas the model predicts 100% success in these cases. Overall, the Bayesian model does not provide a good fit for the actual choices of participants.

This begs the question as to how most participants select advisor. An alternative account of behavior can be made using the natural human tendency to consider as an expert the advisor with whom we agree on a given matter. By ‘*simple heuristic*’ we denote the behavioral rule of choosing, in Stage 2, the advisor with whom the Decision-Maker has the most common answers. For each Treatment, we determine which advisor would be chosen by a participant following this simple heuristic, comparing the Decision-Maker’s answers with those of each advisor at Stage 2. In our data, excluding ties, about 84.9% of participants behaved according to the simple heuristic in Treatment 1, 62.6% in Treatment 2 and 68% in Treatment 3.<sup>9</sup> This means that an overwhelming majority of participants chose according to this basic rule, but the tendency to do so fell in Treatments 2 and 3, where it was feasible to deduct logically that this rule did not result in the optimal

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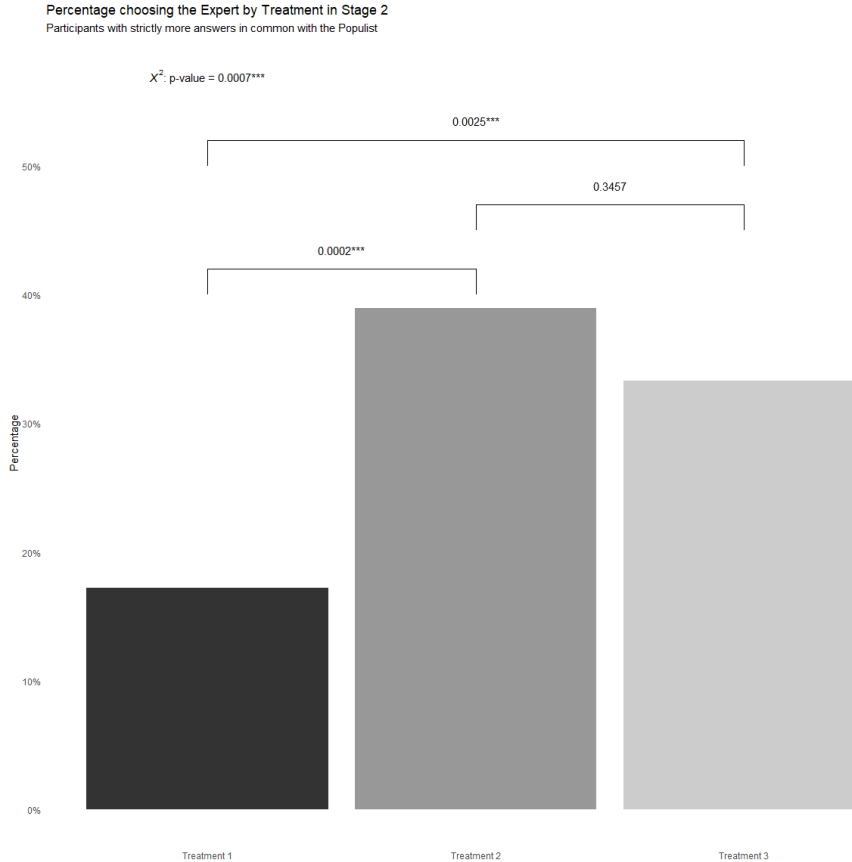
<sup>9</sup>This is even though, in Treatment 3, the ‘common answers’ were between an advisor and a third person.

choice.

A key behavioral hypothesis is that the simple heuristic constitutes a powerful driving force of behavior, which may often overrule the effect of logical reasoning. For participants who, in Stage 2, observe Decision-Makers with more common answers with the Expert than with the Populist, the optimal Bayesian behavior often coincides (in Treatments 2 and 3 it always coincides) with the prescriptions of the simple heuristic. Accordingly, to examine the simple heuristic, we focus only on the behavior of participants who observe Decision-Makers with strictly more common answers with the Populist than the Expert. Not only do these participants constitute the majority of our observations, but they also face the difficult task of having to choose against the prescription of the simple and intuitive heuristic. It is therefore interesting to check how many of them manage to do so.

Figure 5 illustrates the relevant numbers. In Treatments 1, 2 and 3, respectively, there are 122 participants, 113 participants and 153 participants who observed Decision-Makers with more common answers with the Populist than with the Expert in Stage 2. The figure shows that while only 17.2% of such people overcome the tendency to choose according to the simple heuristic in Treatment 1, much higher percentages (38.9% and 33.3%) manage to do so in Treatments 2 and 3. These two percentages are significantly higher than the analogous percentage in Treatment 1 (Chi-Square test with continuity correction,  $p < 0.001$  in either case). This can be interpreted as follows: first of all, even though there is a clear optimal choice in Treatments 2 and 3, more than half of participants for whom this optimal choice clashes with the prescription of the simple heuristic choose according to the latter. On the other hand, the fact that it is logically feasible and relatively easy to deduce who is the Expert in Treatments 2 and 3 (as opposed to Treatment 1, where prior beliefs play a role) considerably reduced the popularity of the simple heuristic.

Overall, this descriptive evidence indicates that even if the structure of the logical problem is clear, and the modus operandi of the Populist is transparent, logical reasoning alone cannot prevent the Populist from successfully catering to people's prior beliefs and gaining public support. There are many open questions, but this initial evidence on the 'identify the Expert' problem is strong, and there are valid reasons to expect that it is generalizable (see further discussion below).



**Figure 5:** *Choice of Expert against the simple heuristic*

### 3.3 Regression analysis of preregistered hypotheses

In this section we present regression analysis to delve more deeply in potential drivers of behavior. On the basis of prior evidence, we hypothesized in our preregistration that being male and taking high-level courses in technical disciplines and economics are associated with high performance at Stage 1. The examination of the effects of the remaining variables has an exploratory nature. We have included a baseline model with only the exogenous variables (demographics and treatment). To that model we added each of the endogenous variables separately, as well as all together in a full model. All regressions use OLS and the standard errors are robust using the HC3 version of the heteroscedasticity-consistent covariance matrix (Long and Ervin, 2000).

Table 5 presents the baseline regression models on the number of questions correctly answered in Stage 1. The treatment variables (i.e. dummy variables corresponding to the three treatments of our experiment) are not statistically significant in any of the models in Table 5, indicating that there are no differences in the number of total correct answers among the three treatments. This

is reassuring, as it indicates that participants have similar familiarity with economics across the treatments and so our interventions are meaningful. The variable ‘Male’ is statistically significant in all specifications, suggesting that males achieved an additional half correct answer compared to females. In Table 9 in the appendix we present the full set of control variables. We find no significant effects for the participants’ marital status, income level, political leaning, their attention to the experiment (measured as the time spent on answering), the discipline of study, or their occupational sector. Participants with a postgraduate degree give about 0.5 more correct answers. We find no statistically significant differences for other levels of educational attainment. EU nationality has a weakly significant and positive effect in column 7, where we control in addition for the discipline of study of our participants. Finally, those with self-professed low knowledge on matters of economic policy (a dummy variable) score about 0.4 fewer correct answers. It is worth noting that only 23.7% of our participants declare themselves not very knowledgeable on these topics.

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.195 (0.162)	0.197 (0.163)	0.181 (0.163)	0.199 (0.163)	0.192 (0.163)	0.191 (0.163)	0.213 (0.164)	0.192 (0.164)	0.184 (0.169)
Treatment: No Ego-involvement	0.220 (0.155)	0.221 (0.155)	0.219 (0.155)	0.227 (0.155)	0.223 (0.155)	0.230 (0.155)	0.265* (0.156)	0.221 (0.158)	0.257 (0.161)
Age	0.001 (0.004)	0.000 (0.004)	0.002 (0.004)	0.001 (0.004)	0.001 (0.004)	0.002 (0.004)	0.002 (0.004)	0.002 (0.004)	0.001 (0.005)
Sex: Male	0.523*** (0.132)	0.525*** (0.132)	0.508*** (0.133)	0.473*** (0.135)	0.524*** (0.132)	0.514*** (0.132)	0.504*** (0.138)	0.515*** (0.140)	0.453*** (0.151)
Sex: Other	1.633* (0.847)	1.647** (0.833)	1.654* (0.870)	1.446* (0.868)	1.622* (0.836)	1.578* (0.806)	1.550* (0.831)	1.635* (0.869)	1.371 (0.902)
Nationality: EU	0.442 (0.272)	0.449 (0.273)	0.445 (0.274)	0.438 (0.272)	0.426 (0.273)	0.383 (0.278)	0.459* (0.275)	0.434 (0.269)	0.384 (0.281)
Nationality: Other	-0.289 (0.373)	-0.292 (0.377)	-0.278 (0.374)	-0.259 (0.383)	-0.306 (0.371)	-0.395 (0.383)	-0.295 (0.380)	-0.329 (0.384)	-0.392 (0.410)
Constant	4.903*** (0.208)	4.935*** (0.215)	4.772*** (0.241)	5.201*** (0.352)	4.823*** (0.236)	4.598*** (0.287)	4.904*** (0.229)	4.895*** (0.232)	4.897*** (0.502)
Additional controls	-	Marital status	Income	Political leaning	Attention	Educational level	Discipline studied	Occupational sector	All included
R <sup>2</sup>	0.040	0.042	0.043	0.053	0.041	0.051	0.047	0.048	0.077
Adjusted R <sup>2</sup>	0.029	0.027	0.027	0.037	0.028	0.033	0.030	0.028	0.030
Observations	600	600	600	600	600	600	600	600	600

*Notes:* The dependent variable is the total number of correct answers in Stage 1. Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 5:** *Regressions on the number of correct answers in Stage 1*

In Table 6 we present the baseline regression models on the probability of choosing the Expert in Stage 2, which is the main exogenous variable of interest. We observe that Treatment 2 has a positive and statistically significant effect on the probability of correctly identifying the Expert, implying a marginal effect of approximately 10 percentage points. We reason that overconfidence is a significant factor for the poor performance of participants in Treatment 1. The magnitude of the

coefficient is also consistent with the difference between Treatment 1 and 2 of Figure 2. On the other hand, Treatment 3 has no statistically significant effect. Although the coefficient is consistently positive, the implied marginal effect is between 1 and 2 percentage points. Hence, we cannot reject the null hypothesis that Treatment 3 has no effect. Unlike the number of correct answers in Stage 1, gender does not predict the choice of the Expert in Stage 2. This is an indication that, although males are marginally more knowledgeable than females in our questionnaire, they tend to also be more overconfident. Being an EU citizen is weakly significant in all but one of our specifications. In Table 10 in the appendix we present the full set of results. Low self-professed knowledge on topics of economic policy has a weak, negative effect on the probability of choosing the Expert in the full model. We find no evidence that any of our other controls have an effect in the choice of the Expert. These findings go against our pre-registered hypothesis H4, regarding participants who lean on the right politically.

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.092* (0.049)	0.093* (0.049)	0.093* (0.049)	0.096* (0.049)	0.091* (0.049)	0.092* (0.049)	0.092* (0.049)	0.093* (0.049)	0.094* (0.050)
Treatment: No Ego-involvement	0.009 (0.048)	0.009 (0.048)	0.009 (0.048)	0.013 (0.048)	0.010 (0.048)	0.009 (0.048)	0.013 (0.049)	0.010 (0.048)	0.016 (0.050)
Age	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	0.000 (0.001)	-0.001 (0.002)
Sex: Male	0.023 (0.040)	0.025 (0.040)	0.025 (0.040)	0.020 (0.040)	0.024 (0.040)	0.026 (0.040)	0.023 (0.041)	0.026 (0.041)	0.031 (0.044)
Sex: Other	0.417 (0.284)	0.417 (0.286)	0.422 (0.289)	0.349 (0.251)	0.414 (0.285)	0.419 (0.280)	0.409 (0.295)	0.405 (0.319)	0.350 (0.297)
Nationality: EU	0.143* (0.083)	0.141* (0.084)	0.138 (0.084)	0.156* (0.083)	0.139* (0.083)	0.139* (0.084)	0.144* (0.084)	0.149* (0.084)	0.153* (0.088)
Nationality: Other	0.066 (0.118)	0.062 (0.119)	0.063 (0.121)	0.083 (0.120)	0.062 (0.118)	0.067 (0.120)	0.066 (0.121)	0.061 (0.125)	0.077 (0.136)
Constant	0.333*** (0.070)	0.330*** (0.075)	0.341*** (0.075)	0.523*** (0.110)	0.315*** (0.074)	0.339*** (0.091)	0.362*** (0.075)	0.276*** (0.075)	0.521*** (0.154)
Additional controls	-	Marital status	Income	Political leaning	Attention	Educational level	Discipline studied	Occupational sector	All included
R <sup>2</sup>	0.020	0.021	0.023	0.034	0.021	0.022	0.023	0.025	0.047
Adjusted R <sup>2</sup>	0.009	0.006	0.006	0.018	0.008	0.004	0.005	0.005	-0.001
Observations	600	600	600	600	600	600	600	600	600

*Notes:* The dependent variable is a dummy indicating whether the participant chose the Expert in Stage 2. Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 6:** *Regressions on choosing the Expert in Stage 2*

The online Appendix contains additional robustness checks on these regression results. In our preregistration document we have noted that in expressing their confidence in the answer they have chosen, rational participants should assign probability greater than 50% to their chosen answer. Our additional checks exclude participants who fail to assign probabilities consistent with their choices (we chose to exclude those with two or more inconsistencies). Another issue with online

experiments is possible lack of attention. Participants face a tradeoff between better performance, and hence higher payment, from a single study, and participating in multiple studies. We thus also present robustness checks where we drop participants in the lower quartile and the lower half with respect to the variable ‘Attention’ in our sample. The ‘Male’ and ‘Econ Knowledge: Low’ variables retain explanatory power in accounting for the number of accurate answers to the questionnaire in Stage 1. On the other hand, when it comes to choosing the Expert in Stage 2, the ‘EU Nationality’ variable is no longer significant for many of the specifications of the robustness checks.

### 3.4 Exploratory regression analysis

In this section we explore further the behavior of participants who had (or, in the case of Treatment 3, were presented with) strictly more common answers with the Populist. Columns 1-9 in Table 7 present the results of regressions using the sets of controls we discussed in the previous subsection. Column 10 includes the number of a participant’s correct answers in Stage 1 (in a quadratic form to account for non-linearities) and the average confidence of a participant in their answers in Stage 1. Treatment 2 has a consistently positive and strongly statistically significant effect among the participants who had strictly more common answers with the Populist. Treatment 3 does not appear to have a statistically significant effect at conventional thresholds. No other control variable is consistently statistically significant in our specifications (the full results are presented in Table 11 in the appendix).

Overall, the results in Table 7 demonstrate that correcting one’s beliefs about their skillfulness, hence correcting overconfidence (the aim of Treatment 2), yields the greatest returns. Removing ego-involvement (the aim of Treatment 3) has a weaker effect. The coefficient estimated in all regressions in Table 7 for Treatment 3 is smaller than that of the estimate for Treatment 2. The difference between the two estimates is not statistically significant.<sup>10</sup> In Treatment 3 the participants could see the number of correct choices the other participant had made. In this way, Treatment 3 shuts down ego-involvement as well as overconfidence. Hence our interpretation of our results is that the data do not support the view that the inability to admit one’s own mistakes (Eskreis-Winkler and Fishbach, 2019), for example because of self-image or ego-threatening concerns (Falk and Zimmermann, 2017; Eskreis-Winkler and Fishbach, 2022), is the main obstacle to choosing the Expert. Nevertheless, despite the improvement achieved in Treatment 2, there is still a large margin for improvement, since most participants did not choose the Expert. This calls for

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<sup>10</sup>For a direct comparison between Treatment 2 and Treatment 3, see table 12 in the Appendix.



	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
Treatment: No Overconfidence	0.214*** (0.058)	0.212*** (0.059)	0.217*** (0.059)	0.217*** (0.058)	0.215*** (0.058)	0.212*** (0.059)	0.218*** (0.059)	0.208*** (0.059)	0.214*** (0.062)	0.196*** (0.064)
Treatment: No Ego-involvement	0.155*** (0.052)	0.155*** (0.052)	0.155*** (0.052)	0.157*** (0.052)	0.157*** (0.052)	0.154*** (0.053)	0.164*** (0.053)	0.148*** (0.052)	0.162*** (0.055)	0.151*** (0.057)
Age	-0.001 (0.001)	-0.000 (0.002)	-0.001 (0.001)	-0.000 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	0.000 (0.002)	0.001 (0.002)	0.001 (0.002)
Sex: Male	-0.003 (0.047)	-0.005 (0.047)	0.001 (0.048)	0.008 (0.047)	-0.004 (0.047)	-0.002 (0.048)	-0.015 (0.048)	0.007 (0.049)	0.003 (0.052)	0.013 (0.053)
Sex: Other	0.665 (1.002)	0.683 (1.002)	0.659 (0.754)	0.555 (0.507)	0.671 (3.001)	0.632*** (0.071)	0.647 (0.670)	0.719 (3.001)	0.602 (1.606)	0.618 (0.423)
Total own										-0.122 (0.140)
Total own2										0.014 (0.016)
Average confidence										-0.002 (0.002)
Constant	0.196** (0.078)	0.205** (0.082)	0.219** (0.088)	0.376*** (0.130)	0.169* (0.087)	0.178* (0.102)	0.208** (0.092)	0.123 (0.085)	0.300* (0.181)	0.703* (0.364)
Additional controls	Nationality	Marital status	Income	Political leaning	Attentions	Educational level	Discipline studied	Occupational sector	All included	All included
R <sup>2</sup>	0.051	0.054	0.055	0.059	0.052	0.053	0.060	0.063	0.084	0.091
Adjusted R <sup>2</sup>	0.033	0.031	0.030	0.039	0.032	0.028	0.032	0.033	0.018	0.018
Observations	388	388	388	388	388	388	388	388	388	388

Notes: The dependent variable is a dummy indicating whether the participant chose the Expert in Stage 2. Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 7:** *Exploratory regressions on choosing the Expert in Stage 2 among those who had strictly more common answers with the Populist*

the investigation of other mechanisms that may be at play.

### 3.5 Heterogeneity in the decision task and robustness

Our analysis so far has not accounted for the fact that the very structure of the ‘identify the Expert’ problem inherently imposes a different level of difficulty to participants with varying levels of knowledge. We address this issue here.

Identifying the Expert is not an easy task, but the task is particularly hard for participants who have few correct answers, hence they are likely to have more answers in common with the Populist. In this sense, there is heterogeneity in the type of problem that participants are called to solve. For participants who answer many questions correctly, finding the Expert is intuitive: if they simply select the advisor they agree with, they are very likely to pick the Expert. For less knowledgeable participants the challenge is far greater. First, they have to realize (Treatment 1) or accept (Treatments 2 and 3) that they are not knowledgeable. Second, they have to realize that their lack of knowledge means they cannot evaluate the advisors’ answers properly. In fact, they have to choose the one they *disagree* with because this gives them higher chance of selecting the Expert. In Figure 6 we show the percentage of participants that find the Expert per number of

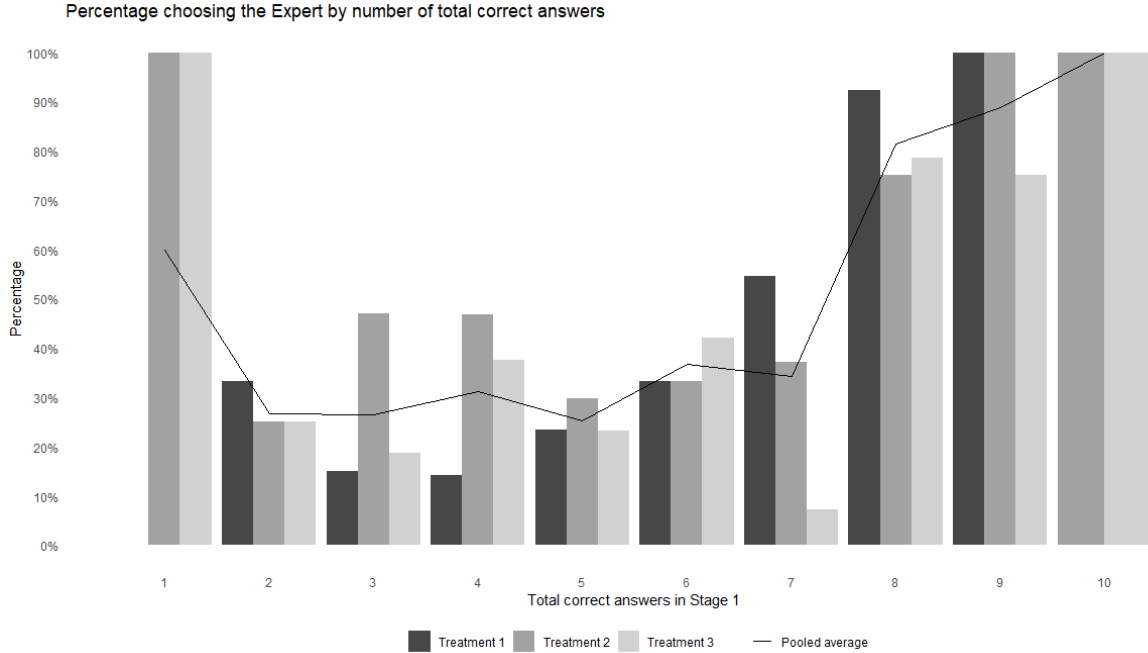
correct answers they gave in the questionnaire.

The effect of the number of correct answers is non-linear. For less than 6 correct answers, between 10% and 50% of the participants identify the Expert (the case of one correct answer is the exception, but there are only 5 participants in this group). For 8 correct choices and above, expert identification improves dramatically, reaching 80% to 100%. Looking closer, the seemingly aberrant low percentage of participants choosing the Expert in the case of 7 correct answers in Treatment 3 is justifiable: it turns out that the problem they were faced with was particularly hard, as it involved an equal number of common answers with both advisors. To estimate behavior if the task was more reasonable, we interpolate the percentage for the bin with 7 correct answers using the adjacent bins. By doing this, the mean percentage of correct expert identification across all three treatments becomes 74% for bin 7. In addition, this interpolation raises the average of correct expert identification for Treatment 3 to 43%, which is above the 42% for Treatment 2, but the difference between the two averages is still not statistically significant.

Why is the effect so strong in the neighborhood of 6 correct answers? There are two forces at play. First, the task is becoming easier because participants intuitively prefer the correct advisor. Second, one also has to consider the possibility of differences in underlying traits. For example, it is plausible that performing well in the questionnaire correlates with some measures of intellectual skills. The question is raised whether very skillful participants would do well if they were placed in the position of less skillful individuals. In this case, they would have to detect the heuristic of choosing the advisor they disagree with. Since the number of correct answers is by design endogenous in these experiments, we cannot answer the question using our data and new experiments would be needed.

## 4 Conclusions

We have conducted an experimental examination of the novel ‘identify the Expert’ task. With the nature of people’s everyday work, and knowledge in general, being ever more specialized, seeking expert advice is becoming a ubiquitous problem. From choosing a politician to finding medical advice, to even selecting a technician, even people with the highest human capital constantly need experts to heed or hire, on unknown (to them) topics. Our main message is that a Populist



**Figure 6:** Percentage of participants choosing the Expert and the Populist by treatment. The coloured bars show the percentage for each treatment and the line shows the average when all three treatments are pooled together.

influencer who promotes advice that panders to the people’s prior beliefs is more likely than not to be identified as the Expert – falsely. This holds in the relatively technical and counterintuitive domain of economics and we conjecture that results will be similar in other domains where people are not particularly knowledgeable.<sup>11</sup> The inability of detecting experts is robust to attempts to reduce the overconfidence or ego-involvement of the participants. The existence of a clear, relatively straightforward Bayesian optimum in two out of the three experimental treatments, is also to not much avail.

The online environment of our experiments matches the natural setting in which self-proclaimed experts often compete in offering advice to laypeople. In our design, no clues about the identity of the advisors is provided. This again matches many situations of online advice, where credentials and identity are not provided, or are not verifiable. We did not provide feedback mechanisms (such as “like” buttons), but given the success of the Populist, such mechanisms would only exacerbate the problem.

Given the applied setting of our experiments in terms of the expertise domain, the representative sample, and the natural online setting that corresponds to the target environment, we have reasons

<sup>11</sup>On a related topic, [Biermann et al. \(2022\)](#) find that humans cannot verify the quality of algorithms meant to help them in making decisions.

to believe that our results are likely to offer some general insights for the ‘identify the Expert’ problem. There is evidence that many laypeople have little knowledge of important economic concepts, mostly restricted to the ones they experience in their daily lives (Runge and Hudson, 2020). This is consistent with our findings and suggests that the majority of the population will likely have trouble identifying the Expert, rendering them susceptible to the strategy followed by the Populist. This can lead to “knowledge poverty traps”, whereby citizens who are not knowledgeable select advisors who offer useless information, further perpetuating this lack of knowledge.

A key insight from our work concerns the inability of participants to choose advisors against their priors, even if they are ignorant regarding a given domain and are aware of this ignorance. Arguably, the required heuristic in this case (“admit your ignorance, choose advisors you disagree with”) is very simple, but not intuitive or psychologically palatable. Extensions to other domains of expertise, ranging from questions of mere knowledge (say geography) to more technical ones (e.g. medicine), are needed in order to examine the scope of this phenomenon. We conjecture that the difficulty of the topic will matter, but also the extent to which average people think they *ought* to be knowledgeable, even if they are not. Finally, the intuitive nature (or not) of a subject, matters. As seen from participant beliefs, identifying the correct expert is particularly unlikely if questions exist where people are particularly certain when choosing the wrong answer. In these cases the Populist has a clear advantage.

Democracies, from ancient Greek cities to the modern world, encourage participation in the public discourse and are thus particularly susceptible to the expert misidentification problem. Commonly, public discourse involves increasing pluralism and a falling value of official credentials. Our results indicate that this changing nature of the public debate is making the expert detection problem more difficult for the average citizen, requiring the application of counterintuitive heuristics. Investigating how different demographic groups address this task, and what can be done to assist them, is left for future work.

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## A Appendix Full regression tables from main text

In this appendix we shall present in detail our extended empirical specifications. Table 8 describes the full set of covariates used to test our pre-registered hypotheses. The variable **Political leaning** is constructed as the sum of the answers of each participant to the following questions: *In political matters, people talk of ‘the left’ and ‘the right’. How would you place your views on this scale generally speaking?* (1 is leftmost, 7 is rightmost), *Please indicate your level of agreement with the following sentence: ‘The government should take more responsibility to ensure that everyone is provided for’.* (1 is strong agreement, 7 is strong disagreement), *Please indicate your level of agreement with the following sentence: ‘Competition is good. It stimulates people to work hard and develop new ideas.’* (1 is strong disagreement, 7 is strong agreement) and *Generally speaking, would you say that most people can be trusted or that you cannot be too careful in dealing with people?* (1 is strong agreement, 7 is strong disagreement).

The variable **Political participation** is a dummy variable constructed from answers to the question: *How often do you vote in the general elections?* (1 is never, 7 is always). Participants who answered 1, 2, or 3 are classified as low in **Political participation**. **Econ knowledge** is a dummy variable constructed from answers to the question: *When it comes to matters of public policy, such as the minimum wage, taxes, or public investment, how knowledgeable do you consider yourself?* (1 is not at all, 7 is very knowledgeable). Those who answered 1, 2, or 3 are classified as low in **Econ knowledge**.

Variable	Description
Treatment (control group: Baseline)	
No Overconfidence	1 if Treatment is Treatment 2
No Ego-Involvement	1 if Treatment is Treatment 3
Age	Self-reported age of the participant
Sex (control group: Female)	
Nationality (control group: UK)	
Marital status (control group: In a relationship)	
Income (control group: under £20,000)	
Political leaning	Sum of 4 Likert scale questions as per pre-registrations
Political participation (control group: High)	
Low	1 if voting frequency strictly below 4 in Likert scale
Econ knowledge (control group: High)	
Low	1 if self-reported knowledge strictly below 4 in Likert scale
Attention	Sum of time spent on Stages 1 and 2 as per pre-registration
Highest educational level (control group: Secondary school up to 16 years)	
Occupational sector (control group: Business and sales)	Categorized as per pre-registration

**Table 8:** *Description of control variables used in the regressions - Full table*

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.195 (0.162)	0.197 (0.163)	0.181 (0.163)	0.199 (0.163)	0.192 (0.163)	0.191 (0.163)	0.213 (0.164)	0.192 (0.164)	0.184 (0.169)
Treatment: No Ego-involvement	0.220 (0.155)	0.221 (0.155)	0.219 (0.155)	0.227 (0.155)	0.223 (0.155)	0.230 (0.155)	0.265* (0.156)	0.221 (0.158)	0.257 (0.161)
Age	0.001 (0.004)	0.000 (0.004)	0.002 (0.004)	0.001 (0.004)	0.001 (0.004)	0.002 (0.004)	0.002 (0.004)	0.002 (0.004)	0.001 (0.005)
Sex: Male	0.523*** (0.132)	0.525*** (0.132)	0.508*** (0.133)	0.473*** (0.135)	0.524*** (0.132)	0.514*** (0.132)	0.504*** (0.138)	0.515*** (0.140)	0.453*** (0.151)
Sex: Other	1.633* (0.847)	1.647** (0.833)	1.654* (0.870)	1.446* (0.868)	1.622* (0.836)	1.578* (0.806)	1.550* (0.831)	1.635* (0.869)	1.371 (0.902)
Nationality: EU	0.442 (0.272)	0.449 (0.273)	0.445 (0.274)	0.438 (0.272)	0.426 (0.273)	0.383 (0.278)	0.459* (0.275)	0.434 (0.269)	0.384 (0.281)
Nationality: Other	-0.289 (0.373)	-0.292 (0.377)	-0.278 (0.374)	-0.259 (0.383)	-0.306 (0.371)	-0.395 (0.383)	-0.295 (0.380)	-0.329 (0.384)	-0.392 (0.410)
<i>Marital status</i>									
Married		0.099 (0.182)							0.076 (0.192)
Single		-0.042 (0.167)							-0.043 (0.173)
<i>Income</i>									
£20,000 - £30,000			0.123 (0.185)						0.074 (0.194)
£30,001 - £44,000			0.200 (0.192)						0.180 (0.201)
£44,001 and above			0.225 (0.181)						0.155 (0.206)
Political leaning				-0.009 (0.021)					-0.006 (0.022)
Political participation: Low				0.036 (0.193)					0.123 (0.202)
Econ knowledge: Low				-0.423*** (0.157)					-0.394** (0.163)
Attention					0.000 (0.000)				0.000 (0.000)
<i>Highest educational level</i>									
Primary school						1.579 (4.007)			1.449 (3.037)
Higher or secondary						0.261 (0.230)			0.130 (0.244)
College or university						0.232 (0.213)			0.062 (0.231)
Postgraduate						0.548** (0.238)			0.340 (0.275)
<i>Discipline studied</i>									
Business, Management, and Economics							-0.203 (0.190)		-0.264 (0.202)
None							-0.451 (0.347)		-0.438 (0.371)
Sciences, Maths, and Engineering							0.027 (0.169)		-0.033 (0.181)
Social Sciences							0.096 (0.219)		-0.022 (0.233)
<i>Occupational sector</i>									
Health								-0.125 (0.234)	-0.163 (0.249)
Other								-0.357 (0.317)	-0.413 (0.327)
Sciences and Engineering								0.303 (0.228)	0.156 (0.246)
Student								0.038 (0.256)	0.035 (0.264)
Teaching and Protective service								-0.083 (0.197)	-0.223 (0.214)
Constant	4.903*** (0.208)	4.935*** (0.215)	4.772*** (0.241)	5.201*** (0.352)	4.823*** (0.236)	4.598*** (0.287)	4.904*** (0.229)	4.895*** (0.232)	4.897*** (0.502)
R <sup>2</sup>	0.040	0.042	0.043	0.053	0.041	0.051	0.047	0.048	0.077
Adjusted R <sup>2</sup>	0.029	0.027	0.027	0.037	0.028	0.033	0.030	0.028	0.030
Observations	600	600	600	600	600	600	600	600	600

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

**Table 9:** Regressions on the number of correct answers in Stage 1



	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.092*	0.093*	0.093*	0.096*	0.091*	0.092*	0.092*	0.093*	0.094*
	(0.049)	(0.049)	(0.049)	(0.049)	(0.049)	(0.049)	(0.049)	(0.049)	(0.050)
Treatment: No Ego-involvement	0.009	0.009	0.009	0.013	0.010	0.009	0.013	0.010	0.016
	(0.048)	(0.048)	(0.048)	(0.048)	(0.048)	(0.048)	(0.049)	(0.048)	(0.050)
Age	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	-0.001
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.002)
Sex: Male	0.023	0.025	0.025	0.020	0.024	0.026	0.023	0.026	0.031
	(0.040)	(0.040)	(0.040)	(0.040)	(0.040)	(0.040)	(0.041)	(0.041)	(0.044)
Sex: Other	0.417	0.417	0.422	0.349	0.414	0.419	0.409	0.405	0.350
	(0.284)	(0.286)	(0.289)	(0.251)	(0.285)	(0.280)	(0.295)	(0.319)	(0.297)
Nationality: EU	0.143*	0.141*	0.138	0.156*	0.139*	0.139*	0.144*	0.149*	0.153*
	(0.083)	(0.084)	(0.084)	(0.083)	(0.083)	(0.084)	(0.084)	(0.084)	(0.088)
Nationality: Other	0.066	0.062	0.063	0.083	0.062	0.067	0.066	0.061	0.077
	(0.118)	(0.119)	(0.121)	(0.120)	(0.118)	(0.120)	(0.121)	(0.125)	(0.136)
<i>Marital status</i>									
Married		0.027							0.045
		(0.053)							(0.055)
Single		0.014							0.010
		(0.052)							(0.054)
<i>Income</i>									
£20,000 - £30,000			0.022						0.029
			(0.057)						(0.060)
£30,001 - £44,000			0.003						0.020
			(0.056)						(0.061)
£44,001 and above			-0.041						-0.032
			(0.055)						(0.061)
Political leaning				-0.010					-0.010
				(0.006)					(0.007)
Political participation: Low				-0.069					-0.086
				(0.059)					(0.063)
Econ knowledge: Low				-0.076					-0.087*
				(0.046)					(0.047)
Attention					0.000				0.000
					(0.000)				(0.000)
<i>Highest educational level</i>									
Primary school						-0.351			-0.352
						(0.629)			(0.279)
Higher or secondary						0.018			-0.024
						(0.070)			(0.074)
College or university						-0.022			-0.052
						(0.063)			(0.071)
Postgraduate						-0.004			-0.060
						(0.072)			(0.084)
<i>Discipline studied</i>									
Business, Management, and Economics							-0.054		-0.028
							(0.059)		(0.063)
None							-0.071		-0.063
							(0.089)		(0.097)
Sciences, Maths, and Engineering							-0.024		-0.034
							(0.050)		(0.053)
Social Sciences							-0.062		-0.062
							(0.067)		(0.071)
<i>Occupational sector</i>									
Health								0.016	0.014
								(0.070)	(0.074)
Other								-0.019	-0.027
								(0.099)	(0.102)
Sciences and Engineering								0.035	0.039
								(0.068)	(0.073)
Student								0.124	0.114
								(0.082)	(0.087)
Teaching and Protective service								0.029	0.025
								(0.057)	(0.062)
Constant	0.333***	0.330***	0.341***	0.523***	0.315***	0.339***	0.362***	0.276***	0.521***
	(0.067)	(0.070)	(0.075)	(0.110)	(0.074)	(0.091)	(0.075)	(0.075)	(0.154)
R <sup>2</sup>	0.020	0.021	0.023	0.034	0.021	0.022	0.023	0.025	0.047
Adjusted R <sup>2</sup>	0.009	0.006	0.006	0.018	0.008	0.004	0.005	0.005	-0.001
Observations	600	600	600	600	600	600	600	600	600

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 10:** Regressions on choosing the Expert in Stage 2 - Full table

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
Treatment: No Overconfidence	0.214*** (0.058)	0.212*** (0.059)	0.217*** (0.059)	0.217*** (0.058)	0.215*** (0.058)	0.212*** (0.059)	0.218*** (0.059)	0.208*** (0.059)	0.214*** (0.062)	0.196*** (0.064)
Treatment: No Ego-involvement	0.155*** (0.052)	0.155*** (0.052)	0.155*** (0.052)	0.157*** (0.052)	0.157*** (0.052)	0.154*** (0.053)	0.164*** (0.053)	0.148*** (0.052)	0.162*** (0.055)	0.151*** (0.057)
Age	-0.001 (0.001)	-0.000 (0.002)	-0.001 (0.001)	-0.000 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	0.000 (0.002)	0.001 (0.002)	0.001 (0.002)
Sex: Male	-0.003 (0.047)	-0.005 (0.047)	0.001 (0.048)	0.008 (0.047)	-0.004 (0.047)	-0.002 (0.048)	-0.015 (0.048)	0.007 (0.049)	0.003 (0.052)	0.013 (0.053)
Sex: Other	0.665 (1.002)	0.683 (1.002)	0.659 (0.754)	0.555 (0.507)	0.671 (3.001)	0.632*** (0.071)	0.647 (0.670)	0.719 (3.001)	0.602 (1.606)	0.618 (0.423)
Nationality: EU	0.104 (0.106)	0.110 (0.107)	0.099 (0.108)	0.107 (0.103)	0.100 (0.106)	0.103 (0.106)	0.108 (0.105)	0.109 (0.105)	0.116 (0.110)	0.130 (0.112)
Nationality: Other	0.148 (0.153)	0.165 (0.153)	0.146 (0.159)	0.134 (0.151)	0.144 (0.153)	0.158 (0.156)	0.152 (0.156)	0.134 (0.168)	0.144 (0.172)	0.153 (0.172)
<i>Marital status</i>										
Married		-0.069 (0.063)							-0.064 (0.066)	-0.063 (0.067)
Single		-0.044 (0.062)							-0.064 (0.065)	-0.062 (0.067)
<i>Income</i>										
£20,000 - £30,000			0.012 (0.066)						0.038 (0.070)	0.048 (0.071)
£30,001 - £44,000			-0.012 (0.067)						0.013 (0.072)	0.035 (0.073)
£44,001 and above			-0.063 (0.064)						-0.026 (0.070)	-0.007 (0.071)
Political leaning				-0.013* (0.007)					-0.011 (0.008)	-0.012 (0.008)
Attention					0.000 (0.000)				0.000 (0.000)	0.000 (0.000)
<i>Highest educational level</i>										
Higher or secondary						0.050 (0.079)			0.016 (0.082)	0.024 (0.082)
College or university						-0.001 (0.070)			-0.017 (0.079)	-0.008 (0.080)
Postgraduate						0.015 (0.084)			-0.006 (0.099)	-0.006 (0.099)
<i>Discipline studied</i>										
Business, Management, and Economics							-0.044 (0.069)		-0.034 (0.074)	-0.026 (0.074)
None							-0.045 (0.104)		-0.048 (0.114)	-0.070 (0.115)
Sciences, Maths, and Engineering							0.049 (0.061)		0.058 (0.066)	0.055 (0.067)
Social Sciences							-0.081 (0.074)		-0.066 (0.082)	-0.069 (0.084)
<i>Occupational sector</i>										
Health								-0.009 (0.077)	-0.028 (0.085)	-0.032 (0.085)
Other								-0.032 (0.109)	-0.047 (0.112)	-0.045 (0.112)
Sciences and Engineering								0.018 (0.094)	-0.031 (0.105)	-0.017 (0.108)
Student								0.190* (0.103)	0.136 (0.112)	0.131 (0.114)
Teaching and Protective service								0.027 (0.066)	0.018 (0.072)	0.010 (0.073)
Total own correct answers										-0.122 (0.140)
Total own correct answers <sup>2</sup>										0.014 (0.016)
Average confidence in own answers										-0.002 (0.002)
Constant	0.196** (0.078)	0.205** (0.082)	0.219** (0.088)	0.376*** (0.130)	0.169* (0.087)	0.178* (0.102)	0.208** (0.092)	0.123 (0.085)	0.300* (0.181)	0.703* (0.364)
R <sup>2</sup>	0.051	0.054	0.055	0.059	0.052	0.053	0.060	0.063	0.084	0.091
Adjusted R <sup>2</sup>	0.033	0.031	0.030	0.039	0.032	0.028	0.032	0.033	0.018	0.018
Observations	388	388	388	388	388	388	388	388	388	388

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 11:** Exploratory regressions on choosing the Expert in Stage 2 among those who observe Decision-Makers with strictly more common answers with the Populist - Full table

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
Treatment: No Ego-involvement	-0.061 (0.061)	-0.058 (0.061)	-0.065 (0.061)	-0.062 (0.061)	-0.057 (0.061)	-0.064 (0.062)	-0.057 (0.062)	-0.065 (0.061)	-0.060 (0.065)	-0.047 (0.066)
Age	-0.001 (0.002)	-0.000 (0.002)	-0.001 (0.002)	-0.001 (0.002)	-0.001 (0.002)	-0.001 (0.002)	-0.001 (0.002)	0.001 (0.002)	0.000 (0.002)	0.001 (0.003)
Sex: Male	-0.052 (0.061)	-0.052 (0.061)	-0.047 (0.061)	-0.037 (0.061)	-0.056 (0.061)	-0.045 (0.062)	-0.067 (0.061)	-0.043 (0.064)	-0.041 (0.067)	-0.039 (0.069)
Sex: Other	0.639 (0.670)	0.655*** (0.075)	0.629 (2.002)	0.515 (0.510)	0.651 (2.001)	0.625*** (0.081)	0.664*** (0.082)	0.672 (1.003)	0.598 (1.014)	0.624 (2.008)
Nationality: EU	0.108 (0.127)	0.110 (0.131)	0.104 (0.132)	0.105 (0.125)	0.107 (0.127)	0.096 (0.129)	0.113 (0.124)	0.126 (0.131)	0.132 (0.141)	0.144 (0.144)
Nationality: Other	0.155 (0.180)	0.177 (0.177)	0.153 (0.186)	0.143 (0.173)	0.151 (0.178)	0.145 (0.184)	0.171 (0.182)	0.170 (0.185)	0.176 (0.179)	0.181 (0.184)
<i>Marital status</i>										
Married		-0.087 (0.084)							-0.097 (0.092)	-0.097 (0.094)
Single		-0.043 (0.080)							-0.081 (0.085)	-0.076 (0.087)
<i>Income</i>										
£20,000 - £30,000			0.001 (0.086)						0.049 (0.091)	0.052 (0.093)
£30,001 - £44,000			-0.017 (0.089)						0.031 (0.093)	0.049 (0.094)
£44,001 and above			-0.090 (0.082)						-0.019 (0.092)	-0.002 (0.094)
Political leaning				-0.014* (0.009)					-0.014 (0.010)	-0.013 (0.010)
Attention					0.000 (0.000)				0.000 (0.000)	0.000 (0.000)
<i>Highest educational level</i>										
Higher or secondary						-0.029 (0.103)			-0.104 (0.114)	-0.089 (0.114)
College or university						-0.080 (0.094)			-0.131 (0.114)	-0.120 (0.114)
Postgraduate						0.004 (0.116)			-0.037 (0.142)	-0.035 (0.144)
<i>Discipline studied</i>										
Business, Management, and Economics							-0.007 (0.085)		-0.001 (0.092)	0.002 (0.093)
None							0.004 (0.121)		-0.031 (0.140)	-0.067 (0.143)
Sciences, Maths, and Engineering							0.106 (0.078)		0.159* (0.087)	0.155* (0.088)
Social Sciences							0.014 (0.108)		0.023 (0.121)	0.017 (0.125)
<i>Occupational sector</i>										
Health								-0.150 (0.100)	-0.179 (0.117)	-0.183 (0.116)
Other								-0.062 (0.134)	-0.088 (0.146)	-0.083 (0.146)
Sciences and Engineering								-0.112 (0.113)	-0.212* (0.127)	-0.199 (0.135)
Student								0.179 (0.122)	0.111 (0.131)	0.106 (0.133)
Teaching and Protective service								-0.027 (0.091)	-0.003 (0.099)	-0.018 (0.100)
Total own correct answers										-0.182 (0.184)
Total own2 correct answers <sup>2</sup>										0.020 (0.021)
Average confidence in own answers										-0.002 (0.003)
Constant	0.442*** (0.101)	0.446*** (0.107)	0.478*** (0.117)	0.650*** (0.168)	0.389*** (0.111)	0.493*** (0.136)	0.412*** (0.113)	0.379*** (0.120)	0.646** (0.251)	1.120** (0.456)
R <sup>2</sup>	0.021	0.025	0.027	0.031	0.026	0.026	0.031	0.045	0.090	0.098
Adjusted R <sup>2</sup>	-0.002	-0.005	-0.007	0.004	-0.000	-0.008	-0.007	0.004	-0.004	-0.008
Observations	266	266	266	266	266	266	266	266	266	266

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 12:** Exploratory regressions on choosing the Expert in Stage 2 among those who observe Decision-Makers with strictly more common answers with the Populist - Comparison of Treatments 2 and 3

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.106*	0.107*	0.112**	0.113**	0.106*	0.105*	0.104*	0.102*	0.106*
	(0.056)	(0.056)	(0.056)	(0.056)	(0.056)	(0.056)	(0.057)	(0.057)	(0.059)
Treatment: No Ego-involvement	0.034	0.034	0.033	0.037	0.034	0.030	0.042	0.030	0.032
	(0.056)	(0.056)	(0.056)	(0.056)	(0.056)	(0.057)	(0.058)	(0.057)	(0.059)
Age	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.000	-0.000
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.002)
Sex: Male	0.014	0.014	0.017	0.023	0.014	0.017	0.014	0.008	0.021
	(0.046)	(0.047)	(0.046)	(0.046)	(0.046)	(0.046)	(0.048)	(0.049)	(0.053)
Sex: Other	0.320	0.320	0.321	0.272	0.319	0.339	0.316	0.295	0.293
	(0.391)	(0.401)	(0.414)	(0.362)	(0.391)	(0.391)	(0.415)	(0.443)	(0.446)
Nationality: EU	0.119	0.117	0.112	0.119	0.119	0.121	0.119	0.123	0.114
	(0.090)	(0.091)	(0.092)	(0.089)	(0.090)	(0.092)	(0.091)	(0.091)	(0.096)
Nationality: Other	0.186	0.185	0.186	0.184	0.184	0.200	0.189	0.192	0.204
	(0.139)	(0.139)	(0.144)	(0.138)	(0.139)	(0.140)	(0.142)	(0.150)	(0.156)
<i>Marital status</i>									
Married		-0.007							0.022
		(0.062)							(0.065)
Single		0.015							0.021
		(0.063)							(0.067)
<i>Income</i>									
£20,000 - £30,000			-0.008						0.004
			(0.067)						(0.072)
£30,001 - £44,000			-0.025						0.004
			(0.066)						(0.073)
£44,001 and above			-0.095						-0.063
			(0.065)						(0.072)
Political leaning				-0.012*					-0.012
				(0.007)					(0.008)
Attention					0.000				0.000
					(0.000)				(0.000)
<i>Highest educational level</i>									
Higher or secondary						0.066			0.036
						(0.080)			(0.083)
College or university						-0.009			-0.042
						(0.071)			(0.080)
Postgraduate						0.001			-0.041
						(0.082)			(0.095)
<i>Discipline studied</i>									
Business, Management, and Economics							-0.055		-0.039
							(0.070)		(0.076)
None							-0.114		-0.155
							(0.106)		(0.113)
Sciences, Maths, and Engineering							-0.034		-0.040
							(0.059)		(0.063)
Social Sciences							-0.052		-0.059
							(0.082)		(0.086)
<i>Occupational sector</i>									
Health								-0.053	-0.067
								(0.080)	(0.085)
Other								-0.014	-0.038
								(0.118)	(0.122)
Sciences and Engineering								0.054	0.056
								(0.080)	(0.086)
Student								0.112	0.045
								(0.107)	(0.114)
Teaching and Protective service								-0.025	-0.038
								(0.064)	(0.069)
Constant	0.335***	0.328***	0.375***	0.501***	0.321***	0.314***	0.370***	0.299***	0.551***
	(0.080)	(0.085)	(0.091)	(0.129)	(0.094)	(0.104)	(0.091)	(0.089)	(0.183)
R <sup>2</sup>	0.024	0.024	0.030	0.030	0.024	0.027	0.027	0.030	0.048
Adjusted R <sup>2</sup>	0.008	0.004	0.007	0.013	0.006	0.005	0.003	0.003	-0.010
Observations	450	450	450	450	450	450	450	450	450

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 13:** Regressions on choosing the Expert in Stage 2 - Excluding those at the bottom quartile of total attention

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.112 (0.071)	0.114 (0.071)	0.112 (0.071)	0.120* (0.071)	0.113 (0.071)	0.110 (0.071)	0.115 (0.072)	0.104 (0.073)	0.106 (0.076)
Treatment: No Ego-involvement	0.035 (0.070)	0.035 (0.070)	0.035 (0.070)	0.039 (0.069)	0.035 (0.070)	0.032 (0.071)	0.037 (0.071)	0.023 (0.071)	0.025 (0.074)
Age	-0.001 (0.002)	-0.000 (0.002)	-0.001 (0.002)	-0.000 (0.002)	-0.001 (0.002)	-0.001 (0.002)	-0.001 (0.002)	-0.000 (0.002)	-0.000 (0.002)
Sex: Male	-0.060 (0.057)	-0.068 (0.059)	-0.064 (0.058)	-0.052 (0.057)	-0.061 (0.058)	-0.057 (0.058)	-0.057 (0.059)	-0.078 (0.062)	-0.076 (0.066)
Sex: Other	0.267 (0.391)	0.260 (0.397)	0.292 (0.408)	0.203 (0.356)	0.266 (0.392)	0.281 (0.387)	0.258 (0.400)	0.260 (0.420)	0.251 (0.388)
Nationality: EU	0.094 (0.112)	0.097 (0.114)	0.082 (0.114)	0.090 (0.109)	0.095 (0.113)	0.088 (0.112)	0.093 (0.115)	0.091 (0.119)	0.059 (0.121)
Nationality: Other	0.154 (0.146)	0.159 (0.145)	0.154 (0.149)	0.152 (0.145)	0.154 (0.146)	0.151 (0.149)	0.162 (0.150)	0.166 (0.151)	0.171 (0.159)
<i>Marital status</i>									
Married		-0.062 (0.079)							-0.034 (0.087)
Single		-0.014 (0.080)							0.002 (0.087)
<i>Income</i>									
£20,000 - £30,000			0.044 (0.079)						0.056 (0.085)
£30,001 - £44,000			0.039 (0.082)						0.080 (0.092)
£44,001 and above			-0.053 (0.083)						-0.007 (0.097)
Political leaning				-0.015* (0.008)					-0.015 (0.010)
Attention					-0.000 (0.000)				-0.000 (0.000)
<i>Highest educational level</i>									
Higher or secondary						0.097 (0.096)			0.084 (0.104)
College or university						0.005 (0.085)			-0.003 (0.099)
Postgraduate						0.053 (0.101)			0.051 (0.123)
<i>Discipline studied</i>									
Business, Management, and Economics							-0.054 (0.089)		-0.081 (0.099)
None							0.069 (0.166)		0.008 (0.187)
Sciences, Maths, and Engineering							-0.032 (0.072)		-0.043 (0.078)
Social Sciences							0.022 (0.102)		-0.005 (0.111)
<i>Occupational sector</i>									
Health								-0.083 (0.102)	-0.086 (0.114)
Other								0.067 (0.147)	0.062 (0.162)
Sciences and Engineering								-0.018 (0.092)	-0.028 (0.101)
Student								0.013 (0.135)	-0.080 (0.150)
Teaching and Protective service								-0.058 (0.084)	-0.101 (0.095)
Constant	0.380*** (0.105)	0.389*** (0.110)	0.387*** (0.121)	0.594*** (0.159)	0.397*** (0.129)	0.344*** (0.131)	0.391*** (0.119)	0.400*** (0.118)	0.639*** (0.244)
R <sup>2</sup>	0.026	0.028	0.031	0.036	0.026	0.032	0.029	0.030	0.057
Adjusted R <sup>2</sup>	0.002	-0.002	-0.002	0.010	-0.001	-0.002	-0.008	-0.010	-0.033
Observations	300	300	300	300	300	300	300	300	300

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 14:** *Regressions on choosing the Expert in Stage 2 - Excluding those at the bottom half of total attention*

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )
Treatment: No Overconfidence	0.088* (0.050)	0.088* (0.050)	0.088* (0.050)	0.094* (0.050)	0.087* (0.050)	0.087* (0.050)	0.089* (0.050)	0.089* (0.050)	0.093* (0.052)
Treatment: No Ego-involvement	-0.007 (0.049)	-0.007 (0.050)	-0.006 (0.050)	-0.004 (0.049)	-0.006 (0.050)	-0.007 (0.050)	-0.002 (0.050)	-0.006 (0.050)	0.000 (0.052)
Age	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.000 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.000 (0.001)	-0.001 (0.002)
Sex: Male	0.012 (0.041)	0.013 (0.041)	0.015 (0.041)	0.022 (0.041)	0.013 (0.041)	0.016 (0.041)	0.016 (0.042)	0.013 (0.043)	0.035 (0.045)
Sex: Other	0.422 (0.288)	0.421 (0.291)	0.430 (0.291)	0.363 (0.269)	0.418 (0.290)	0.424 (0.281)	0.411 (0.300)	0.414 (0.311)	0.358 (0.297)
Nationality: EU	0.151* (0.085)	0.149* (0.086)	0.147* (0.087)	0.156* (0.084)	0.145* (0.086)	0.147* (0.086)	0.153* (0.086)	0.154* (0.087)	0.145 (0.090)
Nationality: Other	0.079 (0.118)	0.075 (0.119)	0.076 (0.120)	0.078 (0.117)	0.072 (0.117)	0.082 (0.120)	0.075 (0.121)	0.076 (0.122)	0.067 (0.128)
<i>Marital status</i>									
Married		0.018 (0.055)							0.034 (0.057)
Single		0.015 (0.054)							0.019 (0.056)
<i>Income</i>									
£20,000 - £30,000			0.032 (0.059)						0.047 (0.063)
£30,001 - £44,000			0.001 (0.058)						0.029 (0.063)
£44,001 and above			-0.027 (0.057)						0.002 (0.063)
Political leaning				-0.012* (0.006)					-0.013* (0.007)
Attention					0.000 (0.000)				0.000 (0.000)
<i>Highest educational level</i>									
Primary school						-0.324 (0.878)			-0.205 (0.144)
Higher or secondary						0.035 (0.072)			-0.003 (0.077)
College or university						-0.027 (0.065)			-0.077 (0.075)
Postgraduate						-0.000 (0.074)			-0.059 (0.086)
<i>Discipline studied</i>									
Business, Management, and Economics							-0.051 (0.062)		-0.040 (0.066)
None							-0.136 (0.089)		-0.170* (0.098)
Sciences, Maths, and Engineering							-0.054 (0.052)		-0.059 (0.055)
Social Sciences							-0.060 (0.069)		-0.060 (0.072)
<i>Occupational sector</i>									
Health								0.011 (0.072)	0.003 (0.075)
Other								-0.004 (0.103)	-0.015 (0.105)
Sciences and Engineering								0.018 (0.069)	0.024 (0.075)
Student								0.077 (0.087)	0.047 (0.092)
Teaching and Protective service								0.019 (0.058)	0.004 (0.062)
Constant	0.334*** (0.070)	0.330*** (0.073)	0.337*** (0.079)	0.497*** (0.112)	0.304*** (0.076)	0.336*** (0.093)	0.372*** (0.078)	0.301*** (0.078)	0.525*** (0.156)
R <sup>2</sup>	0.022	0.022	0.024	0.029	0.024	0.026	0.027	0.024	0.043
Adjusted R <sup>2</sup>	0.010	0.006	0.006	0.015	0.010	0.006	0.008	0.003	-0.005
Observations	563	563	563	563	563	563	563	563	563

Robust standard errors in brackets. \*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$ .

**Table 15:** Robustness check - Excluding participants with more than 1 inconsistency between choices and stated confidence.

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