How LLMs Reinforce Political Misinformation: Insights from the Analysis of False Presuppositions

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1 Introduction

This paper explores the potential of large language models (LLMs) to amplify misinformation by analyzing their responses to user queries through the lens of linguistic presupposition analysis.

In recent years, the rise of populist politicians and the spread of fake news (by these populists) have intensified. Fake news is said to have democracy-destroying effects by polarizing voters, dominating the public debate, and undermining traditional media (Curini and Pizzimenti, 2020). As LLMs play an increasing role in public discourse, it is crucial to understand their potential in shaping political opinions. One relevant factor is the sycophancy effect, which shows that LLMs often tend to adjust their responses to align with users' views (Perez et al., 2023), raising concerns about how these models might reinforce misinformation. Therefore, it is crucial to investigate how LLMs respond when prompts reflect that users have fallen for misinformation due to their political biases.

Our study employs a systematic methodology based on linguistic presupposition analysis to examine this question for three temporary AI language models. Specifically, our study focuses on false presuppositions – presuppositions where the proposition assumed to be true is instead false (Yablo, 2006) – and examines the conditions under which LLMs are more likely to accept and reinforce them. We conduct two experiments with two different datasets (one newly created), exploring factors like linguistic constructions, embedding context, and scenario probability. Preliminary observations suggest that contemporary LLMs have difficulty recognizing false presuppositions, with their performance varying depending on the conditions.

This paper contributes to the understanding of LLMs in the context of political misinformation by: (1) revealing their vulnerability to biased misinformation and false presuppositions; (2) introducing

a new framework for testing false presuppositions; and (3) developing a dataset to study political misinformation and false presuppositions in LLMs.

2 Background

Speakers often rely on presuppositions, i.e., underlying assumptions or shared beliefs that are taken for granted in communication (Stalnaker, 1973). Presupposition triggers, such as possessives or quantifiers, introduce these assumptions and are common in everyday language (Beaver et al., 2024). An intriguing aspect of presuppositions, which our study focuses on, is presupposition failure, where a presupposed fact is actually false (Yablo, 2006). For example, "the prime minister of Germany" presupposes that Germany has a prime minister, which fails because it does not. Such failures can disrupt communication due to missing background information (Xia et al., 2019). However, failure does not always disrupt discourse; hearers may adjust their beliefs to align with the presupposition, a process called accommodation. E.g., if someone says "my dog" to an audience unaware of their pet, listeners may accommodate by assuming the speaker has a dog. Whether accommodation occurs depends on the hearers' willingness to adjust their understanding based on the context (Von Fintel, 2008).

Similarly, when LLMs encounter (false) presuppositions, they must determine whether to accommodate the information. So far, prior research on presuppositions in LLMs has largely focused on classification tasks, revealing that LLMs often identify surface patterns but overlook deeper knowledge (Jeretic et al., 2020; Kabbara and Cheung, 2022; Cong, 2022). Furthermore, studies on presupposition failure, especially in question-answering systems, indicate that these models struggle with false presuppositions (Kim et al., 2021, 2023; Daswani et al., 2024; Yu et al., 2023; Srikanth et al., 2024). These findings raise important questions about how advanced models like GPT-4 (Achiam et al., 2023) – known for its strong performance in various linguistic tasks (Cai et al., 2023) – as well as other models like LLama (Dubey et al., 2024) and Mistral (Jiang et al., 2023) manage false presuppositions in more complex contexts. Our study addresses this gap by examining these models specifically in political contexts, where the mismanagement of false information could have serious consequences. We conduct two experiments using datasets and conditions that align with linguistic analyses of presuppositions, addressing gaps in prior work that focused on examining false presuppositions in questions.

3 Methodology

We employ two experiments to investigate how LLMs reinforce misinformation by analyzing their tendency to identify and accommodate false presuppositions. For both experiments, we examine OpenAI's GPT-4-0 (Achiam et al., 2023), MistralAI's Mistral-7B-v03 (Jiang et al., 2023), and Meta's LLama-3-8B (Dubey et al., 2024), all instruction-tuned models. In each experiment, each model is tested with the same prompt three times. Furthermore, we focus on the four parties, LINKE, SPD, CDU/CSU, and AfD, to represent a balanced distribution on the left-right scale.

Experiment 1: Wahl-O-Mat. In this experiment, we used data from the Wahl-O-Mat,¹ a German tool for comparing political views with party positions. The dataset includes 38 statements from the 2024 European elections, with party responses showing their (dis-)agreement. To test whether LLMs recognize false presuppositions, we incorporated these statements into sentences with six different factive verbs as presupposition triggers. For each statement and party, we created both "true" and "false" presuppositions. For example, if the CDU/CSU agreed on a statement about the Euro, a true presupposition might be: "Did the voters find out that CDU/CSU wants to abolish the Euro?" The false presupposition would be: "Did the voters find out that CDU/CSU does not want to abolish the Euro?" All questions were polar questions to simplify evaluation, and we tested 1,104 prompts.

Experiment 2: Presuppositional factors. In this experiment, we analyze how three factors – trigger type, embedding context (question, negation, modal), and scenario probability – affect LLMs'

ability to recognize false presuppositions. Due to the complexity of these factors, we created a custom dataset. In each prompt, a politician from one party was inaccurately reported to be active at another party's conference. We used seven types of presupposition triggers, such as factive verbs and quantifiers, with 23 individual triggers. We examined three embedding contexts (questions, negations, modals) and varied the scenario probability with both "probable" and "improbable" events to happen at a party's conference, drawing on insights from (psycho-)linguistic research on presupposition behavior (Tonhauser et al., 2018; Tonhauser, 2016; Mahler, 2020; Degen and Tonhauser, 2021). In this way, we created 1,104 prompts for testing.

4 Evaluation and First Observations

For evaluation, the authors personally annotate the models' responses, which proved to be more complex than initially anticipated, requiring linguistic as well as political expertise. For example, polar questions often received answers beyond simple yes or no, requiring a thorough reading of the text.

Preliminary observations indicate that contemporary LLMs have difficulty recognizing false presuppositions, with their performance varying based on specific conditions. For instance, the type of presupposition trigger seems to influence whether a false presupposition is accommodated. Additionally, the probability of the scenario seems to impact detection: for example, models seem to be more successful at identifying false presuppositions related to core party issues, such as supportive immigration statements from right-wing parties like the AfD. These initial observations align with our expectations derived from (psycho-)linguistic research. Furthermore, it appears that the individual models exhibit inconsistent behavior, as repeating a prompt three times often yields varying responses.

Our preliminary observations suggest that linguistic presupposition analysis is a valuable tool for assessing LLMs' susceptibility to reinforcing political misinformation. I.e., by examining how LLMs handle (false) presuppositions, especially in politically charged contexts, we can gain insights into how these models might reflect or amplify biases in their outputs. At the workshop, we aim to discuss these preliminary findings in detail, along with the final results and their implications for using LLMs in political contexts.

¹https://www.bpb.de/themen/wahl-o-mat

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