DEBRIEF FORM
[Describing Attention]

Thank you for your participation in this study. This form is to give you more context on our research study and explain how it will facilitate our development of new types of artificial intelligence (AI). This study builds on our lab's recent investigations of attention mechanisms in humans and AI's (Ziman et al., 2023, Farrell et al., 2024). In those experiments, we found that people have natural intuitions about other agents' attention. They are good at viewing videos of other agents' attention and making judgements about it. The part of *this* study where participants describe attention serves to collect training data for our AI's. The attention participants describe is actually attention from an AI. Later on, we show the AI our participants' natural descriptions of its attention, so it can learn to make its own attention descriptions. We hope that if our AI's observe many examples of attention videos paired with participants' natural descriptions, they can learn to describe attention just like people do.

In addition to training our AI's, we also need to test them and see how they perform. So, there is another part of our study where participants work with the AI and judge how well it's performing. In this part of the study, participants may be interacting with outputs from the AI in real time, or with AI responses the researchers generated and saved in advance. This part of the study helps us understand questions like: Do the changes we've made to these AI's improve them in some way? Are these AI's more *socially* compelling? (For example, do people like them more, find them more human-like, etc.?) We hope that our work will result in AI that feels more natural and pleasant to use.

Ziman, Kirsten, et al. "Predicting the attention of others." *Proceedings of the National Academy of Sciences* 120.42 (2023): e2307584120.

Farrell, Kathryn T., Kirsten Ziman, and Michael SA Graziano. "Improving How Agents Cooperate: Attention Schemas in Artificial Neural Networks." *arXiv preprint arXiv:2411.00983* (2024).

1. For answers to any questions you may have about this research, contact:

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