

TEACHING TIP OF THE MONTH

October 2023

Theme: Addressing Bias in Artificial Intelligence (AI)

Tip 1: Identify Bias in AI Responses

A common challenge of Artificial Intelligence (AI) tools is the presence of bias, which could be related to gender, race, age, etc. Here are a few tips to help as we use AI for teaching and learning:

- **Recognize:** First, recognize that bias does exist and research how it shows up and what contributes to it.
- **Review:** Review all AI-generated responses carefully to identify potential bias in language, examples, representation, etc.
- **Respond:** If you identify a bias, share your findings using the AI tool's feedback or comment feature and/or craft a follow-up prompt that could correct the bias. For example, you could write, "I don't see any examples of X. Can you give additional examples that address X, not just Y?" In addition, prompt the tool to generate information written by specific populations you want to see represented. Be sure to verify the responses to ensure the accuracy of information and sources.

In addition to the above tips, a long-term strategy to address bias is to encourage students of various backgrounds and experiences to consider careers in Artificial Intelligence to promote diversity of ideas and programming.

Tip 2: Use Specificity in Your Prompts

If you want a response to include inclusive examples and ideas, be explicit about what you want it to include. For example, if you want a list of major contributors in the field of chemistry and you want the list to include men and women, instead of writing, "name a few chemists who have made significant contributions to the field in the last century," consider writing, "name three men and three women who have made major contributions to the field of chemistry in the past century." Be sure to verify the responses to ensure the accuracy of information and sources.

More Info on Teaching Tips

"Teaching Tips of the Month" began as a project of the Program for Active Learning in STEM (PALS) and Teaching to Increase Diversity and Equity in STEM (TIDES) grants. Many thanks to Ray Gonzales and Alla Webb, who served as Principal Investigators of the TIDES grants. You can view archived Teaching Tips of the Month on [The Hub](#). We welcome feedback and invite you to submit ideas for this publication to Angela Lanier, angela.lanier@montgomerycollege.edu