

ChatGPT in Higher Ed

USE, MISUSE, & AI LITERACY

RESEARCH QUESTIONS

-
- How prevalent is ChatGPT for students enrolled in Pop Culture in America at TCC?
 - How skillful are students at using ChatGPT – both inside and outside the classroom?
 - Do Pop Culture students at TCC view Generative AI as beneficial or detrimental to higher education in the future?

METHODS & POPULATION

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- In Fall 2023, Marianne spoke with my class regarding AI literacy
 - Implemented a one-time survey developed by Amani, et al. (2023)
 - Amended it for TCC students
 - 29 students enrolled in the course
 - Wide age range of students
 - Survey was available through the end of September 2023

AWARENESS OF CHATGPT

- 27 students completed the survey
- 24 students were eligible and/or volunteered to participate
- If you've used ChatGPT in the past, when did you create an account?

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Fall 2022	Spring 2023	Summer 2023	Fall 2023	Total
4	3	3	2	12

USES

How have you and your peers used ChatGPT?		
Uses	Respondent	Respondent's Peers
Write Essays	4	11
Check Homework Answers	5	11
Advice	8	8
Ask "How To" Questions	7	12
Better Understand Concepts and Ideas	8	10

OTHER USES FOR RESPONDENTS AND PEERS

- Allowed students to specify “other” uses of ChatGPT
- Personal/Entertainment
- Academic
- Financial/Career/Professional

Category	Respondent	Respondent's Peers
Personal/Entertainment	6	0
Academic	2	6
Financial/Career/Professional	1	0

PERSONAL/ ENTERTAINMENT

“One of the main things that I use ChatGPT for is to create meal plans that hit specific goals. I can tell it to create a chart for x amount of days, and it will make foods and recipes that hit my desired calorie/nutrient goals. Another purpose I have for ChatGPT is that it helps create workout plans specific to what I need. I also use it as a kind of ‘Google’ when I have random questions throughout my day, ChatGPT usually gives me a good answer without doing manual research.”

ACADEMIC

"I've seen my father use it to write an essay, then ask it to proofread it, and then copy and paste it into Grammarly, which has AI now for premium members, to correct it and check it for plagiarism."

FINANCIAL/ CAREER/ PROFESSIONAL

"I used it as a job coach. Told it my specific interests, hobbies, my personality test score, and all of my credentials. Then it popped up a list of jobs I might enjoy. I've also used it when looking up things to do in the Tulsa area and also when going on vacation cool activities in the surrounding areas of where I'll be staying."

AI LITERACY SESSION

What did we include?

ChatGPT & Perplexity Overview

What it is. What it isn't. Kept it brief.

Response Evaluation

Reviewed a response and evaluated it for credibility & accuracy

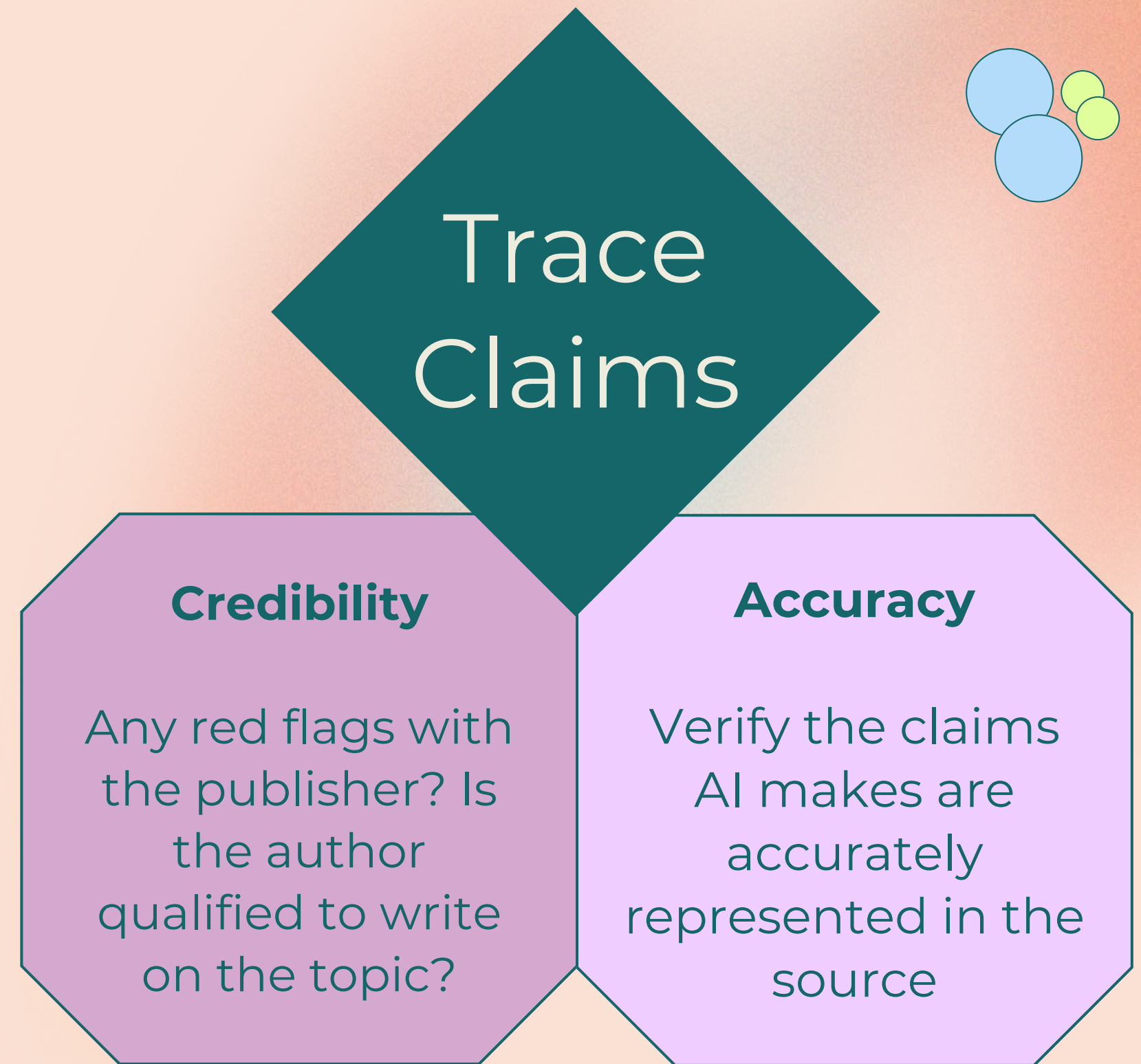
Prompt Building

Shared strategies for building effective prompts

Academic Integrity

Discussed the ethics of using and misusing it in their coursework.

Evaluating AI Responses



Building A Useful Prompt

“Acting as a college student in an American Popular Culture course who needs to research the cultural impact of Taylor Swift, create an outline of five potential subtopics to research. If you don’t know the answer, say “I don’t know.”

Give Context

think about what you want your answer to include

Think of It As a Conversation

you don’t lose the context of the initial prompt, so ask follow up Qs to clarify

Assign It a Role

start with “you are a __” to narrow focus & find more relevant info

Take It Step by Step

AI needs to think in a component-based way--don’t overload it in your initial prompt

Give It a Clear Output Objective

specify the response output: format, length, tone, etc.

Minimize Hallucinations

include language like “if you don’t know the answer, respond ‘I don’t know’”

Acting as a college student in an American Popular Culture course
who needs to research the cultural impact of Taylor Swift
create an outline of five potential subtopics to research
If you don’t know the answer, say “I don’t know.”

Ethics in Academic Work

Academic Integrity

Student handbook states that cheating includes using “**AI-generated content**,” or other materials when not authorized by the instructor” TCC SH.02.A

Bias

Researchers have discovered that ChatGPT can provide responses that indicate political bias and emphasize western perspectives



Copyright/Privacy

Lots of cases pending and guidance to be issued on this. Your prompts are used to train future models; AI output is not copyrightable.

INSIGHTS

I understand the ethical considerations of using ChatGPT for academic work	
Strongly agree	11
Agree	11
Neither agree nor disagree	2
Disagree	0
Strongly disagree	0
Total Responses	24

I know how to create prompts in ChatGPT to get the responses I want	
Strongly agree	8
Agree	12
Neither agree nor disagree	3
Disagree	0
Strongly disagree	1
Total Responses	24

I know how to evaluate the content generated by ChatGPT for accuracy	
Strongly agree	10
Agree	9
Neither agree nor disagree	3
Disagree	1
Strongly disagree	1
Total Responses	24

I know how to evaluate the content generated by ChatGPT for credibility	
Strongly agree	11
Agree	8
Neither agree nor disagree	3
Disagree	1
Strongly disagree	1
Total Responses	24

After the demonstration provided by Marianne in the class, how likely are you to use ChatGPT by OpenAI in the future?

Very likely	8
Somewhat Likely	6
Neither Likely nor Unlikely	5
Somewhat Unlikely	3
Very Unlikely	2
Total Responses	24

In what ways would you use ChatGPT by OpenAI? (select all that apply)

Advice	7
Checking homework answers	9
Do not plan to use	4
To ask "how to" questions	11
To better understand concepts and ideas	17
Write essays	1
Other (please specify in next question)	4
Total	53

If you answered "Other" to how you would use ChatGPT, please specify here

Currently, I use Grammarly to help with essays and formal texts, but Grammarly has a feature that will reword something I have already written to make it sound better and make sure that my topic is clear in what I have written. It has helped me get better grades, so if I ever feel as if I need some more than that I could use ChatGPT to help.

for my own enjoyment and entertainment.

I selected other because I don't want it to write my essays but help me build outlines for them.

I will use it to check my homework not only to ge[t] the correct answer, but to better understand the assignment I am doing.

I would use chatGPT to help with thesis statements and to quickly gather knowledge on a topic before looking into it more myself. But I would like to get more comfortable with how to cite it first.

I would use it to get topics to write about and to improve work ive already written. ChatGPT will not make great improvements, but it can help give you ideas on synonyms and restructuring paragraphs.

More just for fun, not for school, but to come up with jokes or a movie script, see its limitations outside of education.

Revision

SUCCESS IN COLLEGE & ETHICAL BOUNDARIES

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- We asked two short-answer questions at the end of the survey
 - How do you think AI tools like ChatGPT will impact the future of college success at TCC?
 - How do you draw the ethical boundaries between what is and is not appropriate when it comes to the use of Generative AI in the classroom?
 - Overall, these answers were far more thoughtful/insightful than we anticipated
 - Wide range of yes, no, and maybe

FUTURE SUCCESS AT

TCC:

YES

- "It will help students think outside of the box and come up with new ideas they wouldn't have thought about without using ChatGPT."
- "I think it will allow for more abstract concepts to be introduced in a number of classes because it allows for an educator to use ChatGPT to teach these concepts to students along with the students having a great tool for understanding what is being taught to them."
- "I think it can be a really helpful tool for students that are returning to a classroom setting for the first time in a while. TCC is a great place for older adults to get back and finish their education, but that may also mean they do not remember the rules for writing a five paragraph essay, or where to start. It could be extremely helpful for those students who are struggling and embarrassed to ask their teacher for help because of their age."

FUTURE SUCCESS AT TCC:

NO

- "I think if used inappropriately there are going to be many who fly by classes without gaining any knowledge whatsoever. However, that goes for every college campus. It could hinder our workforces in the future if there are people who have the degree but don't understand the job."
- "I think it has the potential to have a negative impact on academic work. It promotes laziness and hinders the ability to critically think and create."
- "I think eventually if not used properly students could walk away with a degree that they didn't really earn. I also think that people could have problems problem solving on their own because generative AI could figure the problem out for you. I also think that the classes at TCC could become less and less community like because nobody will have a need or want for their peers."

FUTURE SUCCESS AT TCC:

MAYBE

- “There are bound to be successes and failures with AI at TCC. As students better learn how to manage it and as professors become more comfortable in allowing their students to experiment with it, I'm convinced AI will help improve the learning process. I also appreciated having a professor who considers AI a tool and encouraged us to use it, but to make it clear how we did. The ethical considerations are what concerned me the most. At first, I thought using ChatGPT sounded like a great idea, but the more I learned about it, the more reluctant I was to use it. Maybe another time!”

ETHICAL BOUNDARIES

Three major themes emerged from students:

- Transparency/Honesty in the classroom
 - Need for open communication
- Fairness/Equity in the tool
 - Students should have clear instructions on how to use generative AI
- Accuracy/Information
 - Education in using the technology

ETHICAL BOUNDARIES

"I think that ChatGPT can be used inappropriately easily. If all students received a presentation from Marianne like I did, there would be a better understanding of how ChatGPT works and how to use it. I am a relatively trendy person, so I had heard about ChatGPT a while ago, but I did not necessarily know exactly how to use it in the most effective ways. I did not know it hadn't been updated since 2021. If all students received a presentation, there would be less discrepancies on how to keep its use ethical. I think ethical can mean different things to all instructors. I have Shaun as my instructor who thinks it can be a great tool, but my boyfriend has a professor at TU who thinks ANY use of it is cheating. I think each boundary just has to be drawn by each teacher!"

ASSIGNMENTS WHICH EXPLORED ETHICAL CONSIDERATIONS FURTHER

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- Academic Uses
 - Study guides
 - Paper revisions
 - Re-submit a previous assignment
 - Presentation over some new aspect of AI
 - Professional Uses
 - Career recommendations
 - Entertainment Uses
 - Image generator
 - Playlists based on current interests
 - Organize your life scenario

WHAT'S NEXT?



CORNELL REPORT (DEC 2023)

Shaun:

- Expand the discussion of AI literacy to my other courses
 - Online sections
 - Dual Credit sections
- Continue creating assignments that ask students to reflect on ethical considerations

Marianne:

- Modify/simplify prompt guidance
 - Acting as a [Role], perform [Task] in [Format]
 - Acting as a college student in a pop culture course, provide five potential subtopics on Taylor Swift's impact on pop culture in outline format
- Discuss deepfakes (student suggested this semester)
- Frame it as students' responsibilities (verification, disclosure, and discretion) when using GAI tools (Cornell report)

Co-chairing AI Task Force AY2024-25

- gather info about how ai is being used by TCC faculty
- Develop guidelines and best practices for integration into teaching & learning
- Evaluate professional development needs on AI literacy and fundamentals

THANK YOU

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