

# **Chat:GPT**

## **Implications for the Classroom**

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**12:30-2:00 P.M.**

**Griggs Center**

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# What is ChatGPT?

## What is ChatGPT?

- A language model (LM)
  - "predicts" what comes next in text, autocomplete
- traditionally based on 2 or 3 words of context
  - old idea (1950s), Claude Shannon
- A large language model (LLM)
  - trained on a huge sample of online text (45 TB, ~500 billion words)
  - uses large amounts of context in making completions / responses
  - optimized for dialogue, can refine or elaborate on responses
  - based on new technology (2017)
- [Attention is All You Need](#)

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## What is Chat GPT? Cont.

- Created by OpenAI

- <https://openai.com/blog/chatgpt/>

- Builds upon GPT-3, GPT-2, GPT, Transformers

- technically ChatGPT is a tuned version of GPT-3

- GPT-3 is GPT-2 with more data

- Free (for now)

- <https://chat.openai.com/>

- Easy to use

- chat interface

- Already well known

The logo for the University of Minnesota Duluth, featuring the letters 'UMD' in a large, serif font. Below it, the text 'UNIVERSITY OF MINNESOTA DULUTH' is written in a smaller, sans-serif font, followed by the tagline 'Driven to Discover' in a bold, sans-serif font. The logo is set against a background of a diagonal split between a light yellow and a darker yellow color.

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# What can Chat GPT do?

- homework
- research proposals
- IRB proposals
- service
- teaching
- programming
- letters, email, and statements
- strategic planning
- self reflection
- fun

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# What are educators' concerns?

- Writing to learn assignments might be lost
- ChatGPT not only writes but takes advice and then revises
- The tool will only keep improving
- We stand to lose cognitive functioning (ala letting iPhones remember all relevant phone numbers)
- If students interact with tech, instead of people, regarding writing, much is lost
- AI could make instructors and writing centers obsolete

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## Concerns cont.

- **Makes it more difficult to convince students of the importance of writing**
- **The definition of plagiarism gets blurred**
- **It can analyze published articles**
- **There are few reasons for students *not* to use it**
- **We stand to lose the unique voice of BIPOC writers**
- **Instructors may start using Chat GPT to lighten their load**
- **Academics will (again) have to prove their value**

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# Classroom Opportunities for Using ChatGPT

- Sparking conversations about learning, writing, academic integrity
- Teaching students to recognize the real from the fake (i.e., analyze a ChatGPT-generated response or write prompts to get a response)
- Using as a starting point (ala Wikipedia)
- Increasing equity for English language learners
- Saving evaluation time
- Helping writers form research questions
- Helping writers develop topics or see counterarguments
- Allowing ChatGPT to find patterns in ideas or for reflection
- Teaching students how to use AI tools ethically

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# Actions You Can Take

- **Require in-class writing (not using technology) to better identify each student's writing (caveat—accessibility issues)**
- **Test your assignments against AI tools; get familiar with ChatGPT so you can spot when it's being used**
- **Require sources (it uses names in the field, but the studies aren't real) and/or specific examples**
- **Require students to submit mind maps, drafts, outlines, and/or an explanation of their writing process along with the finished paper**
- **Ask students direct questions about what they wrote**

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## Actions You Can Take cont.

- **Use unique and/or class-based assignments (e.g., a field trip, archived materials, something shared in class, primary data, recent news [ChatGPT stops at 2021], videos/graphic aids)**
  - **Use social annotation tools (e.g. Perusall, Google docs)**
- **Use “paywalled materials” (accessible through the UMD library but not open access internet)**
- **Use a detection device (many are available)**
- **Create policy; cover it early and often, in class and on the syllabus**
- **Explain the value of writing (writing is thinking)**

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# Detection Tools

- **GPT-2 output detector** (<https://openai-openai-detector.hf.space/>)
- **GLTR (Giant Language Model Test Room)** (<http://gltr.io/dist/index.html>)
- **GPTZero** (<https://etedward-gptzero-main-zqgfwb.streamlit.app/>)
- **Watermarking (coming soon)**

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# Discussion Questions

1. Given your discipline/role at UMD, what are your concerns regarding ChatGPT/AI?
2. What opportunities, if any, do you see for using these tools?
3. Based on what you know so far, what do you plan to do regarding ChatGPT/AI going forward?

For a complete bibliography of sources on this subject, see Anna Mills' Google doc, compiled for the Writing Across the Curriculum (WAC) Clearinghouse, titled "AI Text Generators: Sources to Stimulate Discussion Among Teachers."

Mills' document is available through the KAML's [ScholComm blog](#).

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