

GenAI and Academic Integrity

A pragmatic view of the evidence

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Swansea University, Wales, UK

Who am I

Why am I 'here'

“Unfair Practice Officer”



**Academic
Integrity**

Doing the right thing

Cheating

Doing the wrong thing

Assessment

Certifying learning

Academic
Integrity

Doing the right thing

Cheating

Doing the wrong thing

Assessment

Certifying learning

Cheating

Doing the wrong thing

Cheating

Is probabilistic

Probability of cheating

- Is it easy to do?
 - Others are cheating? Does my university value this assessment?
- Does it improve grades?
- Are the regulations clear and evident?
 - Students are confident they understand regulations. Even if they don't.
- Pressures
 - Fear of failure, struggling academically, finances, competition, stress, life etc
- Students are *people!*
 - Personality traits, gender, age, motivation

November 30th 2022



Hi, I am ChatGPT, and things are never going to be the same again.

The Gemini logo features the word "Gemini" in a sans-serif font. The "G" is blue, "e" is light blue, "m" is purple, "i" is pink, and "n" is red. A purple four-pointed star is positioned above the "i".

Gemini



ChatGPT

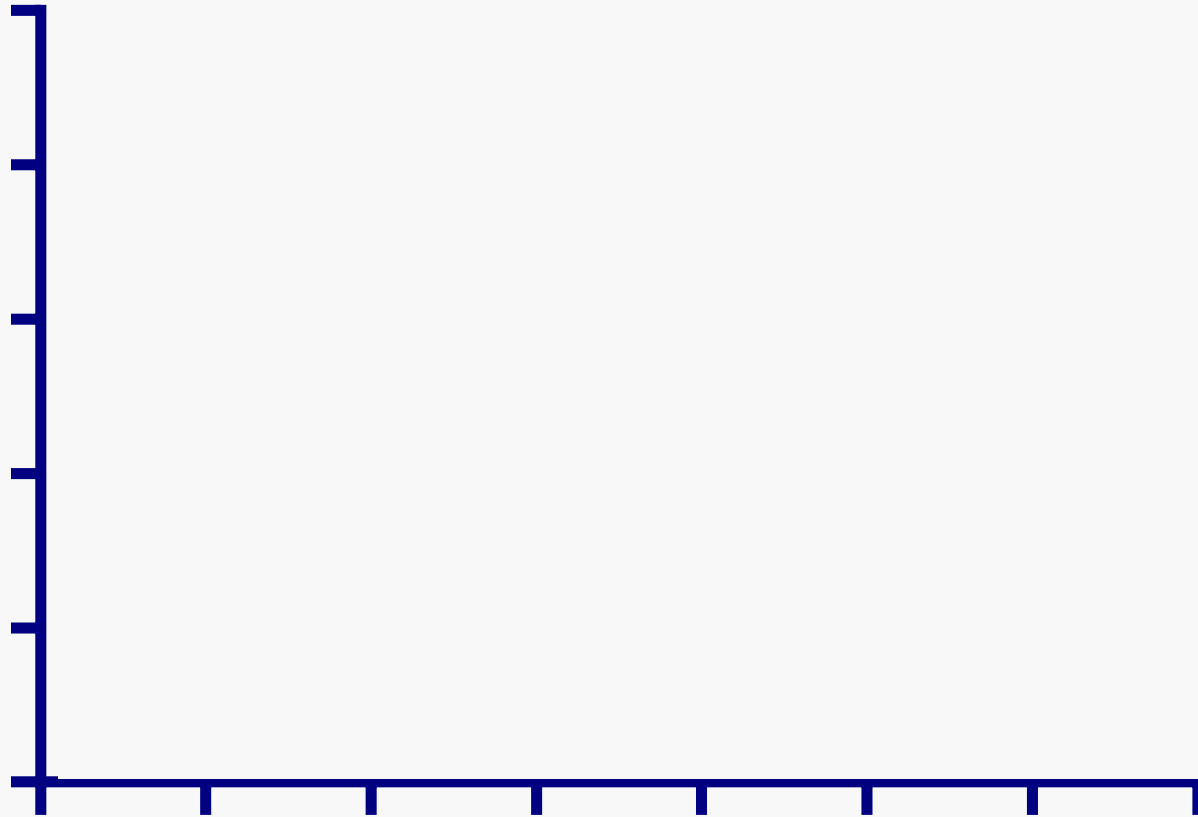


Copilot



Claude

Generative Artificial Intelligence (GenAI)



- **Happening**
- **Cheating?**
- **Free**
- **Unregulated**
- **Independent**
- **Target education**

Opportunities

Effectiveness

Rules?

Pressures

Opportunities

Effectiveness

Rules?

Pressures



ASSESSMENT & EVALUATION IN HIGHER EDUCATION
<https://doi.org/10.1080/02602938.2023.2299059>

 **Routledge**
Taylor & Francis Group

 OPEN ACCESS

 Check for updates

ChatGPT performance on multiple choice question examinations in higher education. A pragmatic scoping review

Philip Newton  and Maira Xiromeriti 

Swansea University Medical School, Swansea University, Swansea, UK

Discipline	ChatGPT(3)
Medicine	



MSC
Medical
Schools
Council

UK Medical School AKT Practice Exam

Paper 1

ChatGPT (4)

76%

ChatGPT (4_o)

94%

Rewrote it. Three times



ChatGPT (4_o)

94%

GenAI can answer questions which

- Assess higher order learning
- Use novel text
- Include (novel) images
- Calculations + statistics

GenAI and written work

- GenAI generated work gets equivalent or better grades
 - In blinded, controlled studies
- Markers cannot really distinguish?
 - Experienced users can ‘tell’?
- ‘Hallucinates’ references?
 - Much ‘better’ now
- Validity is key

Opportunities

Effectiveness

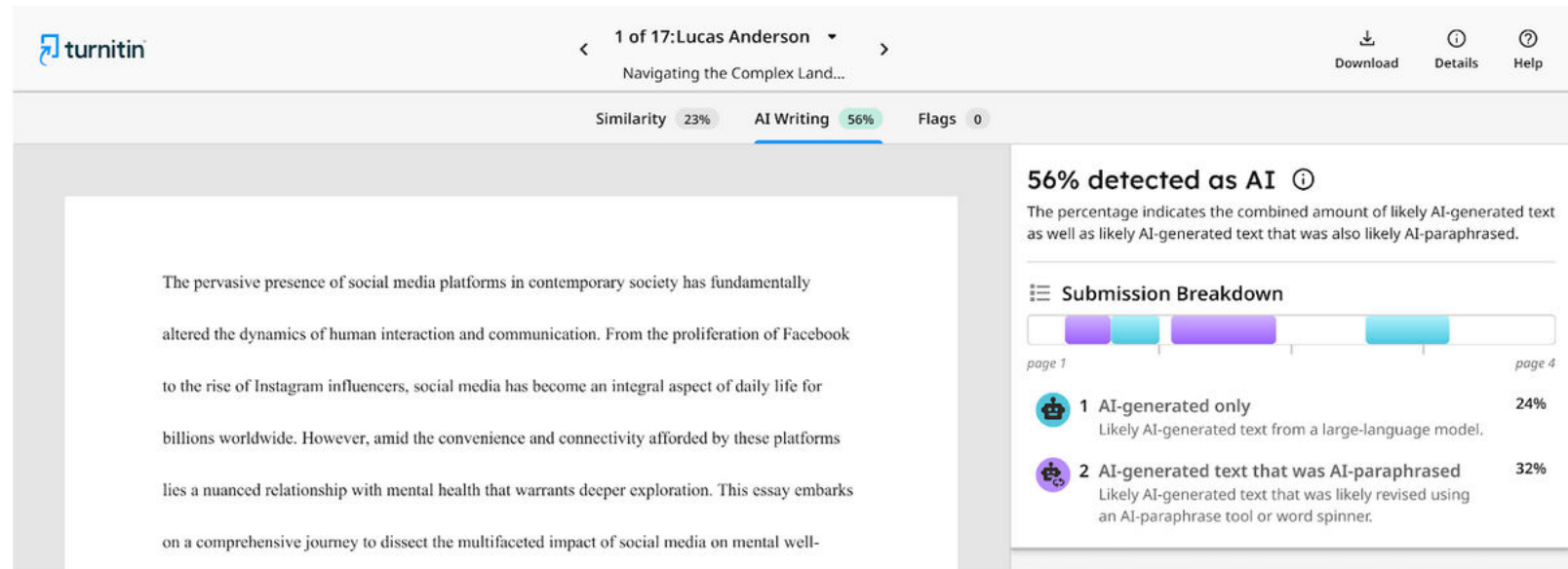
Rules?

Pressures

Reduce opportunities

Using AI detectors?

The AI writing report



turnitin

1 of 17: Lucas Anderson

Navigating the Complex Land...

Download Details Help

Similarity 23% AI Writing 56% Flags 0

56% detected as AI ⓘ

The percentage indicates the combined amount of likely AI-generated text as well as likely AI-generated text that was also likely AI-paraphrased.

Submission Breakdown

Category	Percentage
1 AI-generated only	24%
2 AI-generated text that was AI-paraphrased	32%

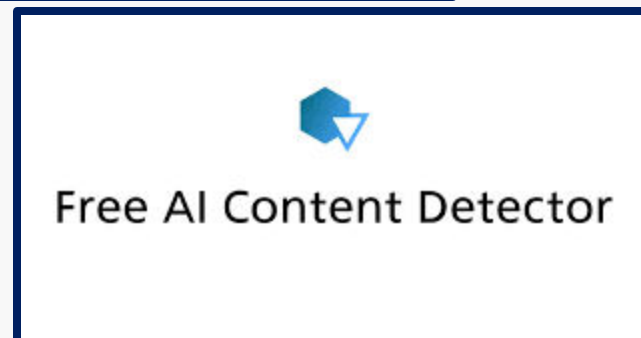
The pervasive presence of social media platforms in contemporary society has fundamentally altered the dynamics of human interaction and communication. From the proliferation of Facebook to the rise of Instagram influencers, social media has become an integral aspect of daily life for billions worldwide. However, amid the convenience and connectivity afforded by these platforms lies a nuanced relationship with mental health that warrants deeper exploration. This essay embarks on a comprehensive journey to dissect the multifaceted impact of social media on mental well-



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**HOW TO :
TRICK AI
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DETECTORS**



100%
HUMAN-GENERATED CONTENT



Fantastic!



**BYPASS
AI DETECTION**



**PARAPHRASE
WITHOUT
PLAGIARISM**



6 steps to reduce detection (from YouTube)











- Use better systems (e.g. GPT-03 rather than 4-0)
- Screen using free AI detectors
- 'Humanise' using paraphrasing tools (e.g. Quillbot)
- Add spelling mistakes and non-native language traits
- Sprinkle in some human writing
 - (get ChatGPT et al to do all these)
- Repeat detection

6 steps to reduce detection (from YouTube)

- Use better systems (e.g. GPT-03 rather than 40)
- Screen using free AI detectors
- 'Humanise' using paraphrasing tools (e.g. Quillbot)
- Add spelling mistakes and non-native language traits
- Sprinkle in some human writing
 - (get ChatGPT et al to do all these)
- Repeat detection
- **These things are effective**

🔍 essay writer

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Opportunities

Effectiveness

Rules?

Pressures

'Have you cheated using ChatGPT?'

Vietnam:	10 - 24%
United Kingdom:	9 - 22%
USA	11 - 26%

Did you cheat using GenAI

What did you do?

'What did you do'?

Free text question, thematic analysis

- Online exams
- Write assignment
- Rewrite assignment
- Proofread assignment
- Planning an assignment
- Explain concepts

Cheating

?

Not Cheating

Opportunities

Effectiveness

Rules?

Pressures

**Academic
Integrity**

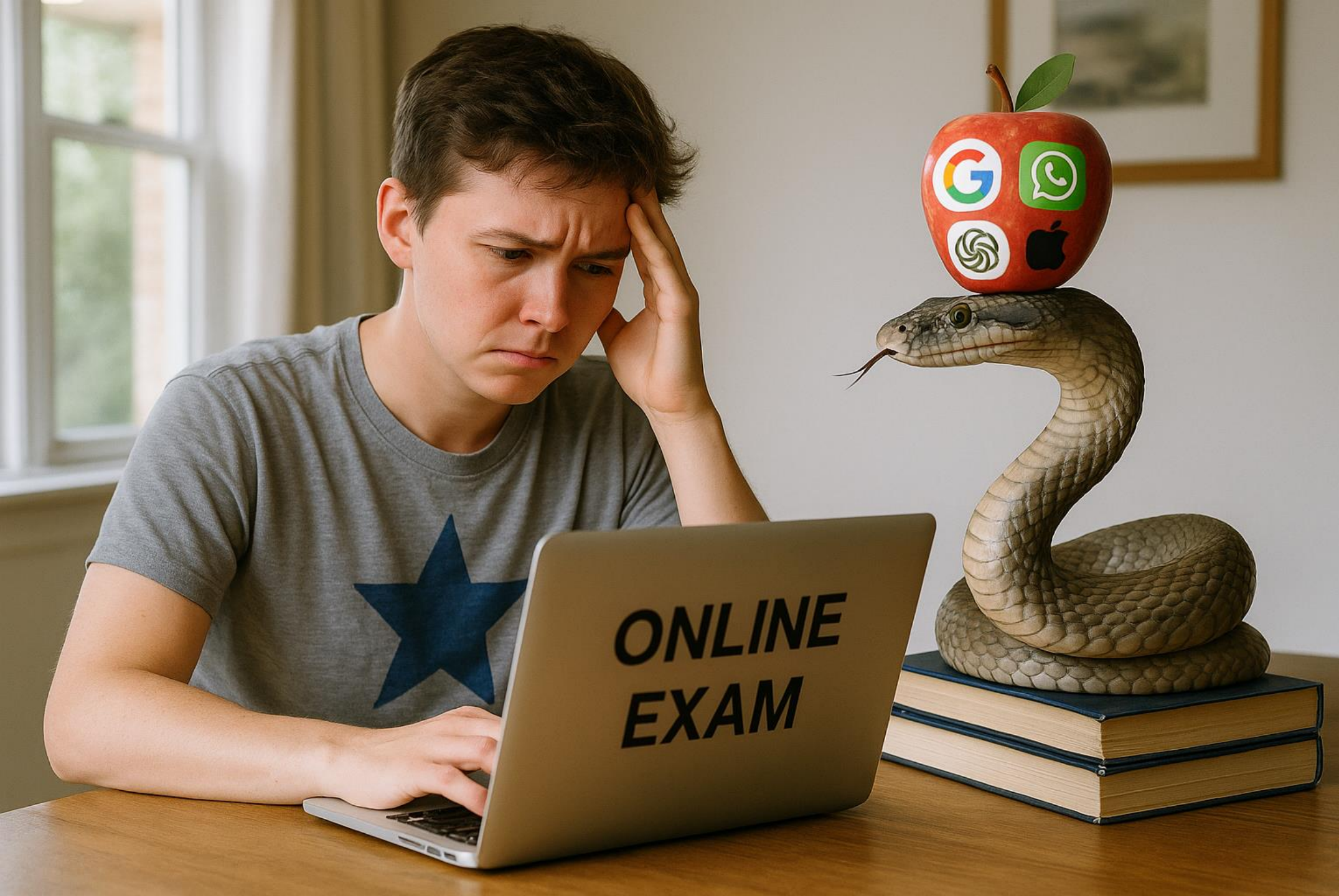
Doing the right thing

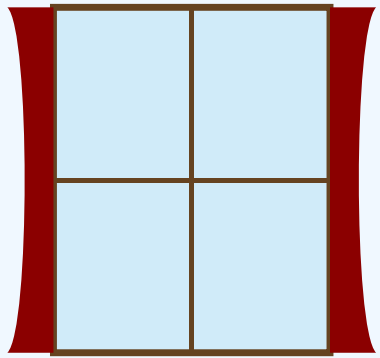
Cheating

Doing the wrong thing

— Academic misconduct in online examinations

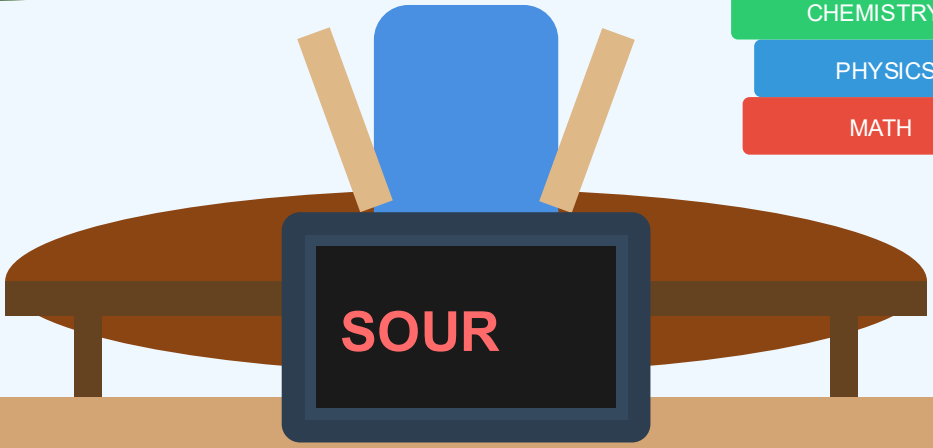
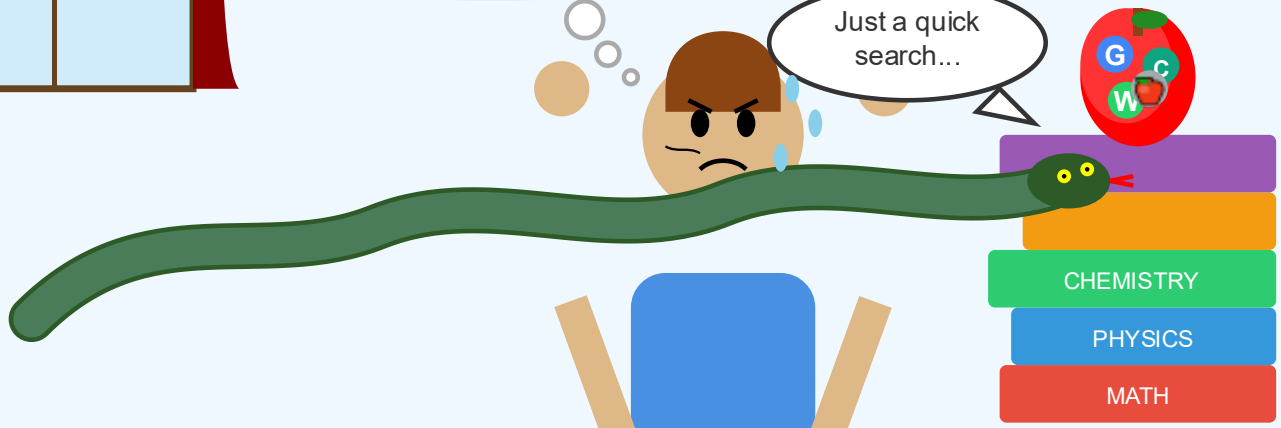
- “While this exam takes place in an uncontrolled environment, **you must undertake it completely independently**. You are not allowed to discuss any of the content of the exam with anyone. If you speak to your parent, sibling, partner, friend or anyone else you will commit an academic offence.”





NO!
I must resist...
But it's so hard!

Just a quick
search...



Summary

- Assessment validity is fundamental
- Ethical decision making is contextual
- Gen AI is not one thing

Thank you!



Tomas Foltynek
Masaryk University



Michael Draper



Lisa Wallace



Chris Lang
University of Toronto

Rebecca Awdry
University of Canberra



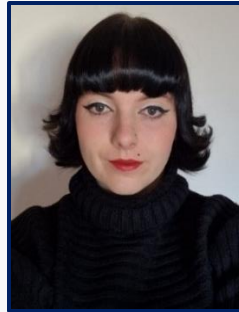
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Pearl Rozenburg
Sonia Saddiqui
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Ffinian Jones



Josie Ransome

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Questions?

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