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31st National Conference and Exhibition 2025

THE UNIVERSITY OF SYDNEY

Using generative artificial intelligence in program evaluation: training module development and implementation

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Occupational Therapy Australia

I acknowledge with respect and gratitude the Traditional Owners of Country encompassing Adelaide and Adelaide Hills, the Kaurna and the Peramangk Peoples.

AIM OF PRESENTATION

To describe the rationale, development and implementation of a **learning module** designed teach occupational therapy students about use of generative AI in program evaluation.

THE AI MODULE

Six hours face to face

Mini-lectures + hands-on

Applied in capstone program evaluation plan

Assessed in portfolio of exemplars & worksheets

Assessed in template based project evaluation plan

MODULE RATIONALE

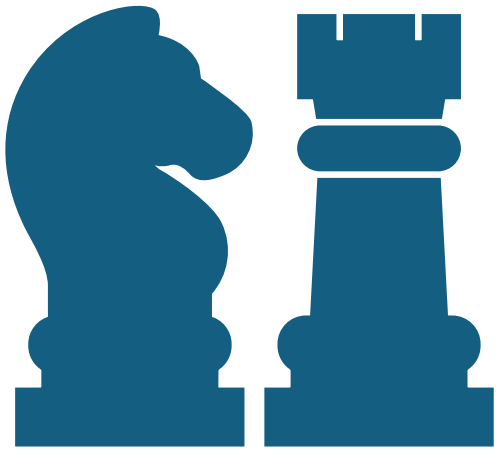
New graduate occupational therapists need to acquire foundation skills and knowledge in use of generative artificial intelligence in ways that adhere to entry level professional competencies and practice standards.

AI in OT services

- Hyper-rapid change
- Technology way ahead of the human, governance, policy , legislative frameworks
- Your primary responsibility for ‘patient safety’ and ‘evidence-based practice’ does not change
- Your scope of practice registration limits do not change

- May provide efficiencies – but you need up-front due diligence to protect your patients, service

Types of AI



Narrow AI (playing chess, augmentative exercise machines etc)

Generative AI (reasoning, learning , creating)

Narrow: programming and instruction (supervision, structuring)

Generative: building the ‘agent’ through iterative interaction (technological neural network, classification, prediction, generation, unsupervised, facilitated, learning -> discovery -> learning cycle, feedback -> optimising)

Will “Occupational Therapist” (OT) be replaced by robots?

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https://www.replacedbyrobot.info/about

Note: single author/ single provider/ credibility not verified/ on the face of it looks reasonably informed

https://www.replacedbyrobot.info/18537/occupational-therapist-ot

Job Description

AI TOOLS

Drafting, ideas, writing? ChatGPT, Bing Chat, Gemini, Copilot

Find and summarise research articles? elicit.org, perplexity.ai, researchrabbit.ai

Generate images? DALL-E, MidJourney, Stable Diffusion, Adobe Firefly

Prepare minutes of meetings? Gemini

AI USES

Idea generation

Content development and structuring

Literature synthesis

Data management

Writing in non-native language

Editing

Ethical (procedural compliance.


Contents lists available at ScienceDirect

Computer Methods and Programs in Biomedicine Update

journal homepage: www.sciencedirect.com/journal/computer-methods-and-programs-in-biomedicine-update

ELSEVIER

Using artificial intelligence in academic writing and research: An essential productivity tool

Mohamed Khalifa [a,b,c,*], Mona Albadawy [d,**]

"AI facilitates writing assistance, encompassing text expansion, predictive text, and autocompletion…

… structuring, through outlining and emotional tone analysis …

integrating visual and multimedia elements like graphics and presentations,

presenting research in a coherent and engaging manner"

Example: Copilot image prompt – use this to critique algorithm assumptions, biases, then experiment with prompts

Inherent problems in AI

- Hallucinations
- Confidentiality
- Attribution
- Source of data
- Bias
- Employment
- Equity

AI RISKS

Transparency in workflows

Integrity

AI-human balance

Not reliable

Not reproducible

Fabrications

Contents lists available at ScienceDirect

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Using artificial intelligence in academic writing and research: An essential productivity tool

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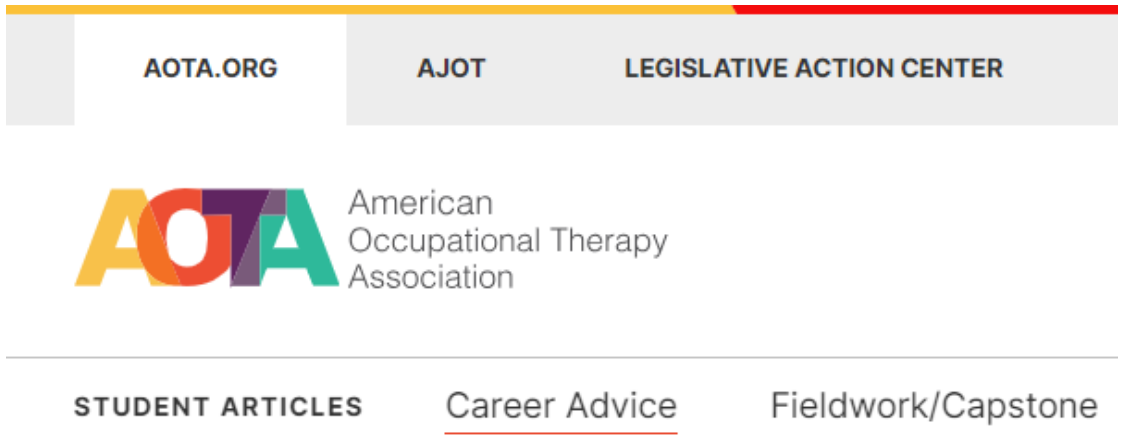
Acknowledging & referencing the use of AI: AI in Education https://canvas.sydney.edu.au/courses/51655/pages/acknowledging-and-referencing-the-use-of-ai?wrap=1



- Treatment optimisation
- Client health metrics
- Documentation Assistance
- Writing and research support
- Learning and idea generation
- Client motivation

Artificial Intelligence's Role in Occupational Therapy—The Innovation and Instability

Tyler R. Hood, OTD/S 08/01/2024

Client data privacy and security

Potential bias in AI algorithms

Inaccurate or misleading information

Limited accessibility of AI platforms

Risk of AI over-reliance

Example: Same person same Copilot searching topic of sensory approach to feeding – but with different prompts

ACKNOWLEGING VERSUS REFERENCING GEN AI

Acknowledging - a way to describe how you have used generative AI in the process of creating a work for submission

Referencing - a way to bring content generated by generative AI into your work for submission (similar to referencing an idea or text from a scholarly source)

Acknowledging & referencing the use of AI: AI in Education
https://canvas.sydney.edu.au/courses/51655/pages/acknowledging-and-referencing-the-use-of-ai?wrap=1

Encouraging and acknowledging AI use

Students encouraged to extend use of AI

Use must be acknowledged.

How AI use is acknowledged depends on how they used it.

University guidance

Template acknowledgements

I acknowledge the use of <tool>

to <purpose of using generative AI>.

On <date> I <actions taken>.

The output was then <actions taken>.

The links to my original work is <link here> and the AI output is <link here>.

Responsible academic AI use

Student choice

They assume all responsibility for integrity

Never submit personal, sensitive, private, confidential data

Students aware of and accept AI limitations

Students alert to AI biases

Students understand AI can fabricate

Explicit teaching on AI and university academic integrity

Student Charter 2020

“Upholding honesty, ethics, professionalism, and academic integrity”

“Ultimately, you are 100% responsible for your assessment submission”.

Assessing Gen AI module learning

Reflection on intention to use it

Application of module content

Professional perspectives

Personal perspectives

Demonstrate competence in making Generative AI statement

USING GENERATIVE ARTIFICIAL INTELLIGENCE IN OT PROGRAM EVALUATION

For this exercise, write a reflection on your response to the AI topic covered today in the workshop and how you think you will use it in preparing the Program evaluation report assignment. Include points from the different slides in the workshop today to structure your response - so that your reflection is both personal, professional and evidence based. No more than 400 words (about two pages)

Conclude this assessment by writing the 'AI attribution statement' that you will need to include as part of your Program Evaluation Report assignment submission - use the University of Sydney Exemplar

Total 10 marks	Could have provided more detail or clarity	Satisfactory description of key points	Good work that gives your perspective about key points
2 marks each	0-.75	1-1.5	1.75-2
How you will use AI in preparing your program evaluation report			
Use of key points from the workshops slides			
Personal perspective in your reflection			
Professional perspective in your reflection			
Use of evidence in your reflection			
AI attribution statement – required (no marks)	Not satisfactorily completed		Satisfactorily completed
TOTAL			

Conclusion

This module provided a learning experience that addressed practical skills and professional principles for responsible use of generative artificial intelligence in a way that was introductory, authentic, principles based and future focussed