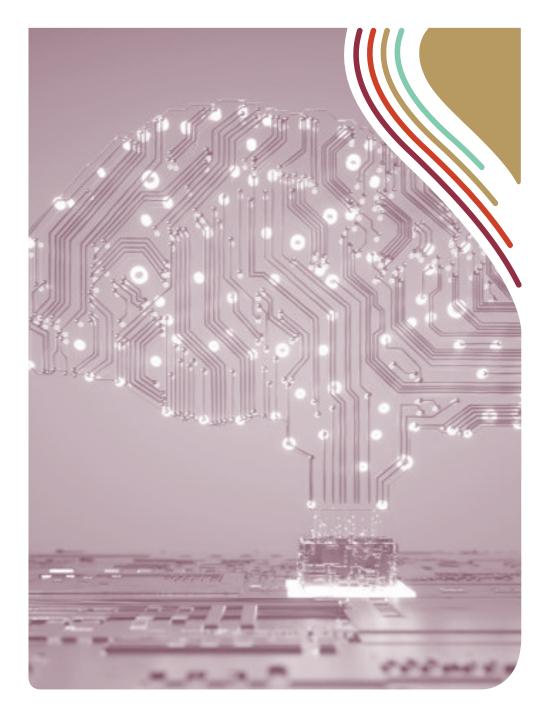


Al² in Higher Education

ChatGPT and its implications for Teaching, Learning and Assessment





In this session

- The AI universe
- Our role
- ChatGPT demonstration
- Our HE responsibility
- HI/AI collaboration
- SU AI OER

The presenters





Magriet de Villiers is the Learning Technologies Advisor of the Centre for Learning Technologies (CLT) at Stellenbosch University (SU). She studied and taught in the field of Theology at SU. She took up the position as the Faculty of Theology's Blended Learning Coordinator, and later that of the Academic Development Coordinator. Her teaching and research interests centre on the pedagogy of discomfort, learning spaces, artificial intelligence in Higher Education, instructional- and learning design, and blended- and hybrid learning.



Hanelie Adendorff is a senior advisor in the CTL at SU. She has a PhD in Chemistry but has been working in professional development since 2002. Her career started with an interest in blended learning, but she has since worked in the areas of assessment, facilitation of collaborative learning, science education and, more recently, the decolonization of the science curriculum. Since SU's move to emergency and augmented remote teaching, she has been involved with institutional research on assessment.



Philip Southey lecturers in physics SU. He obtained his PhD in Tertiary Physics Education from the University of Cape Town (UCT) after completing a BSc Astrophysics (UCT) and a BA PPE (Oxford). He regards teaching as one of the greatest and most exciting intellectual and personal challenges. His research interest lies at the intersection of science, education and philosophy; particularly the metaphors underlying shifts of paradigm in these disciplines. He has taught English in a rural village in the Himalayas and played bagpipes for the queen.

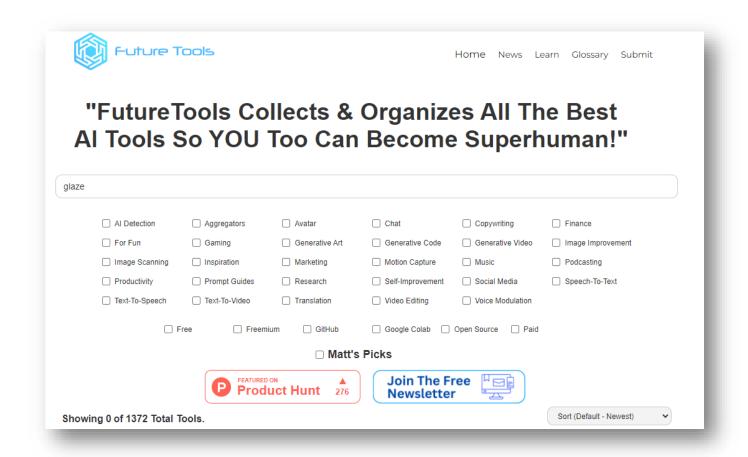


Dalene Joubert is the new addition to the CTL-advisor team at SU. She holds a joint Masters Degree from SU and the University of Leiden, a PGCE from Unisa and she is currently busy with her PhD in Translations Studies at SU. Dalene has a passion for learning and teaching, and has been in the space for over a decade – she has taught at both Rhodes University and SU, and has also been a high school teacher. She loves her work, and is currently exploring the intersection where AI, TLA and SU meet.



There is a lot

- ChatGPT
- Bing
- GPTZero
- Midjourney
- DALL·E
- Stable Diffusion
- Google Workspace
- Microsoft Office
- OtterAl
- Keenious
- Craiyon

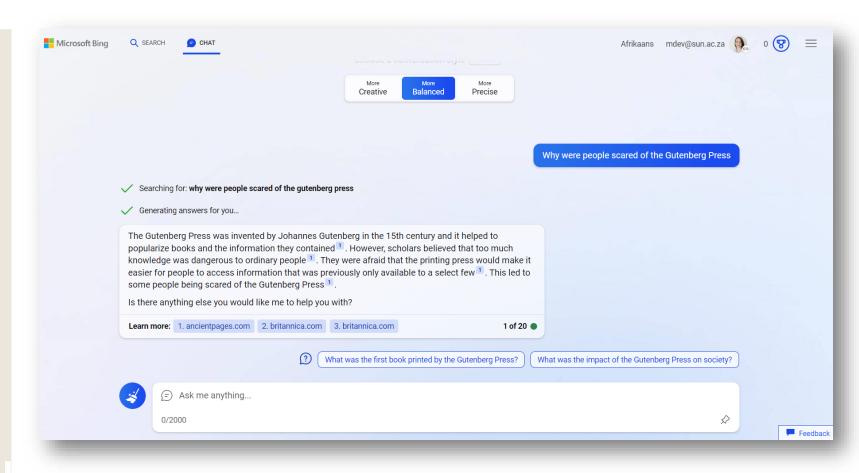


<u>Future Tools - Find The Exact AI Tool For Your Needs</u> https://www.futuretools.io/



What humans do best

We solve problems

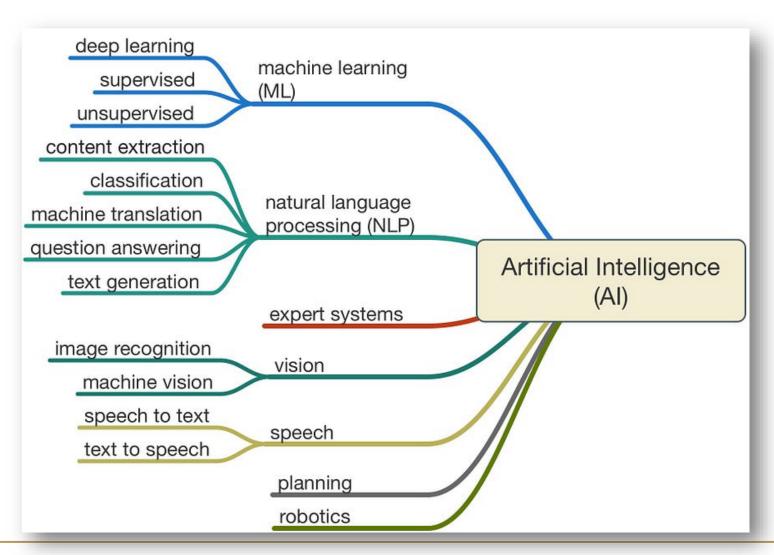






What humans do best

- We solve problems
 - Al and Big Data have been with us for a while now



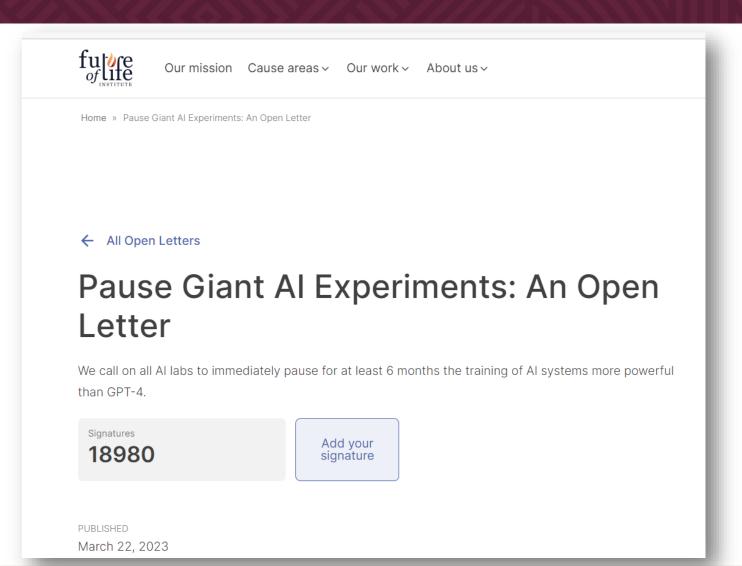
Institute

The Al Universe



What humans do best

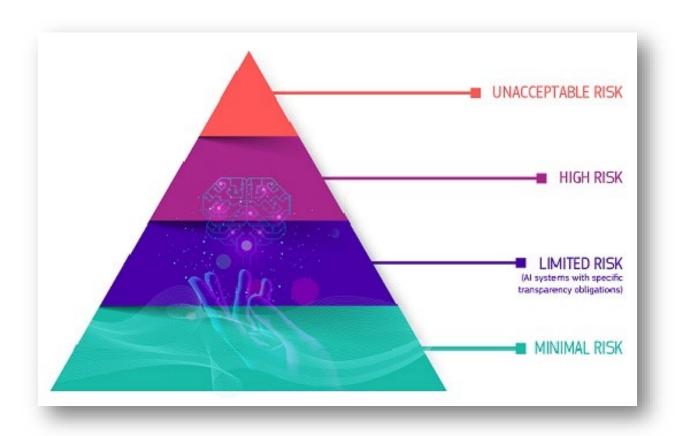
- We solve problems
 - Al and Big Data have been with us for a while now
- We are adaptable, critical thinkers





What humans do best

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Regulatory framework proposal on artificial intelligence | Shaping Europe's digital future (europa.eu)



What humans do best

- We solve problems
 - Al and Big Data have been with us for a while now
- We are adaptable
- We are critical thinkers
- We are accountable stay vigilant and informed

How can we respond?

At SU we strive to use technology in a meaningful and innovative way within the TLA environment. This includes a critical, integrated approach to the use of AI technologies such as ChatGPT. We promote the ethics and academic integrity of both students and lecturers within this new TLA-context.

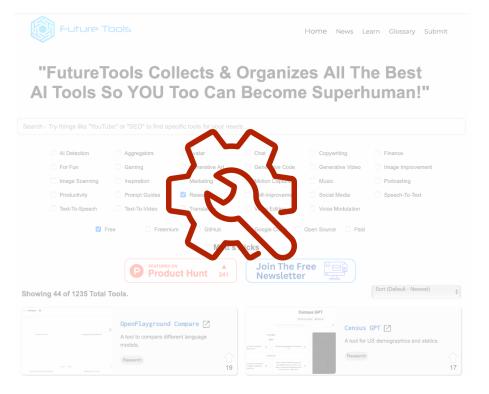
As a leading HE institution and trusted knowledge partner, the most responsible response is to alter and adapt our TLA practices to account for the advances in AI technology and its future applications. We motivate, therefore, that there are ways of embracing AI for the future of TLA at SU.

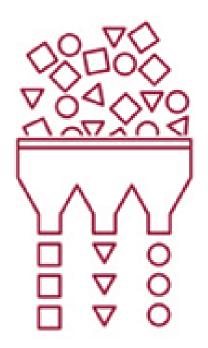
Discussion doc_ChatGPT in HE TLA.pdf (sun.ac.za))

What is our role?











Al literacy

in HE teaching, learning and assessment

A professional development opportunity for SU staff

SU Short Course 5 webinars and a presentation session April – September 2023

More info available soon!

Questions? Dalene Joubert (dvermeulen@sun.ac.za)



What is ChatGPT?



- Feedback = more on ChatGPT
- Refer to previous talk for
 - What is ChatGPT (prof Bruce Watson)
 - What is SU's position (dr Antoinette van der Merwe)
- Large Language Model
- Trained on large datasets (2021)
- GPT = generative pre-trained transformer

Prompt / question





What will our students need in an Al-enabled world?



Q Search analysis, research, academics.

"If the purpose of higher education is that students memorise and summarise a body of knowledge, and that this is then certified via assessment, then ChatGPT is an existential threat."



COVID-19 Arts + Culture Business + Economy Education Environment + Energy Health + Medicine Politics Science + Tech

TC Afrique

ChatGPT is the push higher education needs to rethink assessment

Published: March 12, 2023 9,42am SAST





Director of Centre for Postgraduate Studies, Rhodes University & Visiting Research Professor in Center for International Higher Education, Boston College,



Adjunct Lecturer, University of Sydney



Professor of Decision Science and Psychology, Carnegie Mellon University



Margaret Blackie

Associate Professor, Rhodes University



Associate Professor, Edinburgh Napier University

The authors do not work for, consult, own shares in or receive funding from any company or organisation that would benefit from this article, and have disclosed no relevant affiliations

What will our need in an Al-enabled world?



Relationships

"relationship building is a key determinant of classroom success, according to researchers at the Harvard Graduate School of Education" (Mehta, 2020)

FACULTY FOCUS

HIGHER ED TEACHING STRATEGIES FROM MAGNA PUBLICATIONS

EQUALITY, INCLUSION, AND DIVERSITY

Teaching with Care: Why Community is at the Heart of Successful Pedagogy



What will our need in an Al-enabled world?



Critical thinking

"While I can assist in certain aspects of critical thinking by providing information, analysis, and evaluation of arguments, I cannot truly engage in critical thinking myself." ChatGPT

Bloom, 1956 Krathwohl & Anderson, 2001 **Evaluation** Create **Synthesis Evaluate Analysis** Analyze **Application** Apply Comprehension **Understand** Knowledge Remember

What will our need in an Al-enabled world?



Al literacies

"We define Al literacy as a set of competencies that enables individuals to critically evaluate Al technologies; communicate and collaborate effectively with Al; and use Al as a tool online, at home, and in the workplace." Georgia Tech, 2020



Al Literacy: Why Everyone Needs to Learn Al



Priyansha Mishra

Slowing down, looking out | Built OnHerWay to Empower 1B Women Travellers | Microsoft | MIT Manipal'19

Nov. 2, 2020

Published Nov 3, 2020

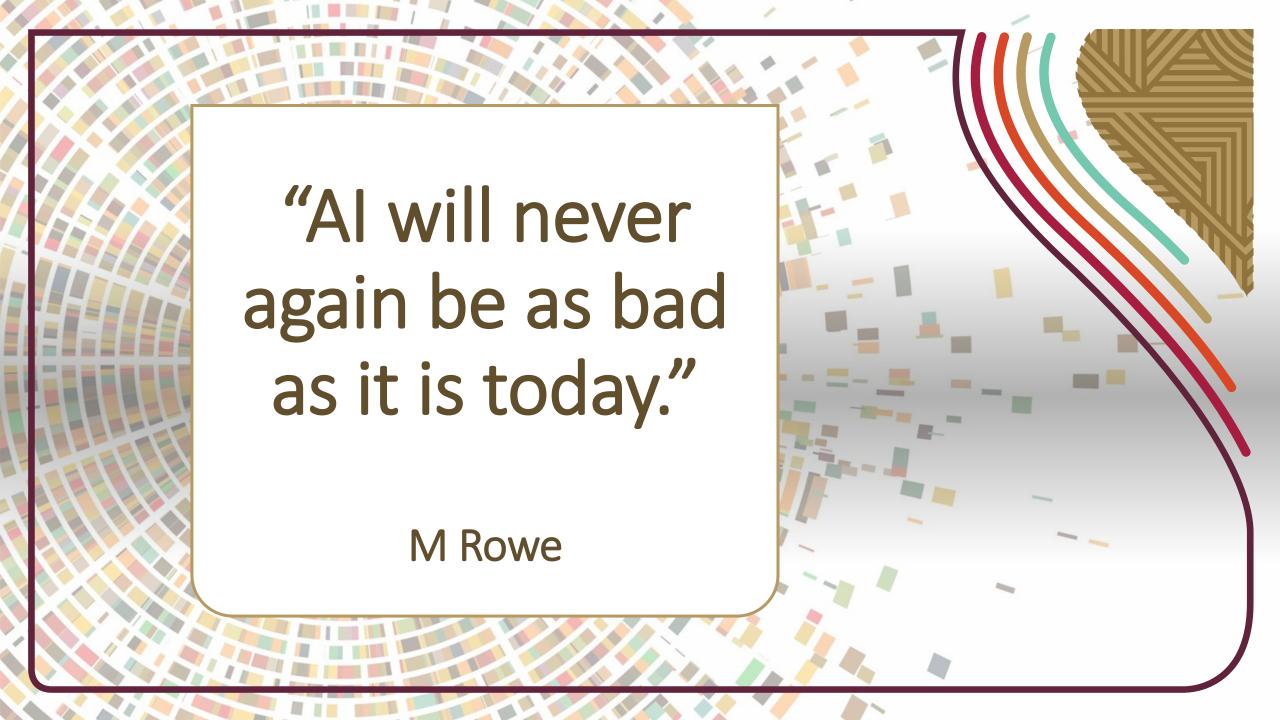
+ Follow

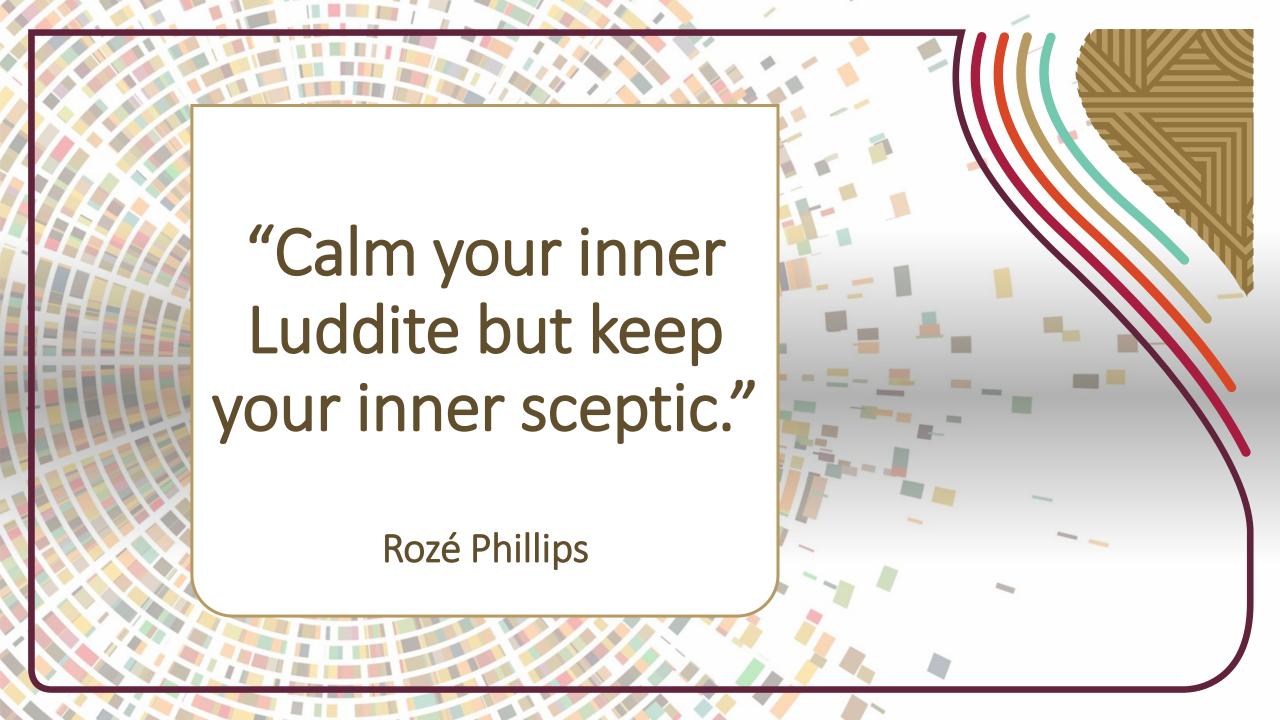
If you're reading this, AI is a part of your everyday life.

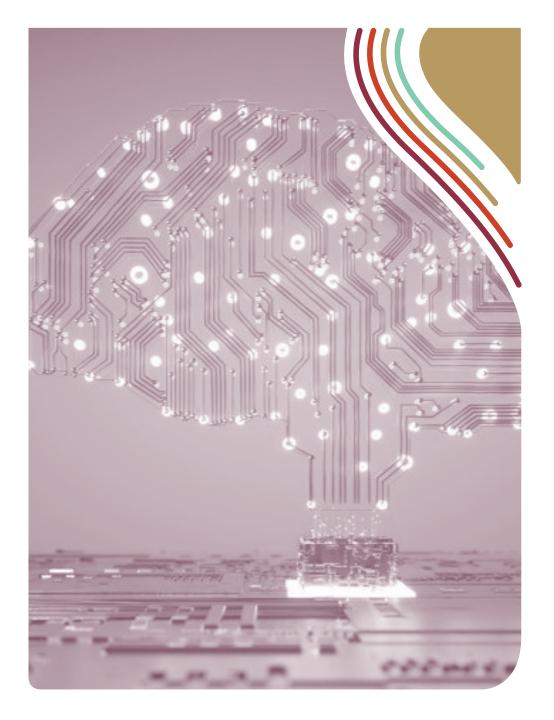


[If ChatGPT] can do a job as well as a person, then humans shouldn't duplicate those abilities; they must surpass them. The next task for higher education, then, is to prepare graduates to make the most effective use of the new tools and to rise above and go beyond their limitations. That means pedagogies that emphasize active and experiential learning, that show students how to take advantage of these new technologies, and that produce graduates who can do those things that the tools can't.









Upcoming conversations

- Al enabled learning spaces
 - Auxin: 23 May, 12:45-13:45
- Al-resilient summative assessments
- Al in undergraduate research
- Al and ethics

Do you want to participate and be rewarded for it?

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