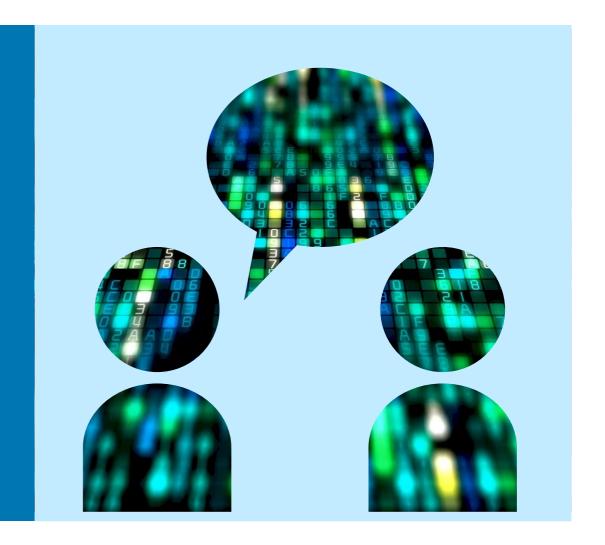


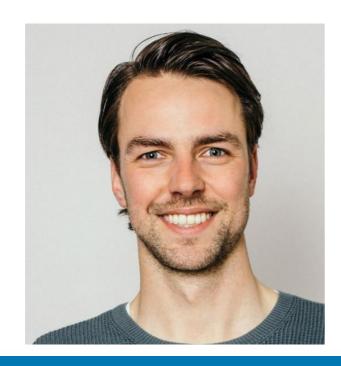
Develop your students' communication skills with Avatar AI bots

Wybren Bosma (Meta-skills) Esther Schagen (FSS)

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Who are we?



Wybren Bosma
Co-founder & CEO
at Meta-Skills



Esther Schagen
Lecturer
Communication Science VU



Kick-off questions

Please go to menti.com and use this code: **2161 1556**

Or

Use the QR code

Answer the three questions about student collaboration and the use of digital tools in your courses





Goal of this session

Today we would like to:

- Discuss with you the importance and challenges of teaching collaboration skills in higher education
- 2. Experience together with you how **practicing communication skills** with **a genAl driven avatar** can support the collaboration process
- 3. Show you how you can **successfully implement** this tool in your curriculum

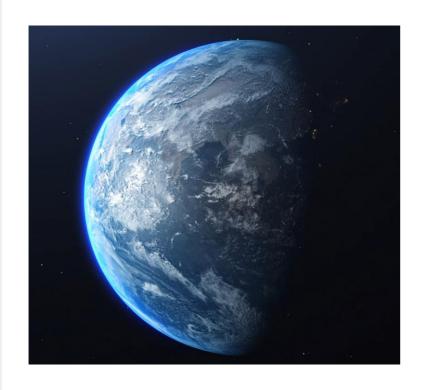


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The increase of **globalization** and **internationalization** has influenced the labor market, by demanding more **interdisciplinary** and **specialized skills**

more complex tasks require collaboration and communication skills

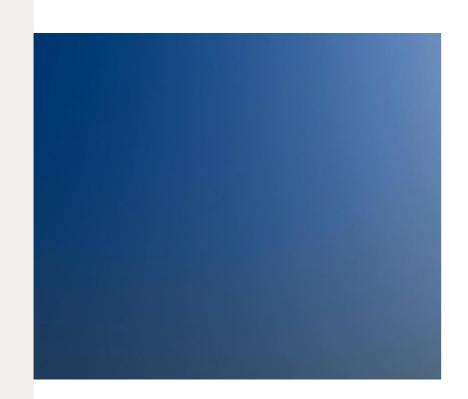




Collaboration and communication skills are vital for students

- 1. Enhance job preparedness
- 2. Contribute to increased enjoyment of learning
- 3. Contribute to improved academic outcomes





However, upon graduation, students often lack preparedness for the demands of teamwork



Comprehensive and **transverse integration** of training on effective collaboration and communication into the curriculum is necessary (González-Salamanca et al., 2020)

Developing these skills requires **practice**, **reflection** on **personal experiences**, and **effective instruction** with opportunities for **feedback** (González-Salamanca et al., 2020)

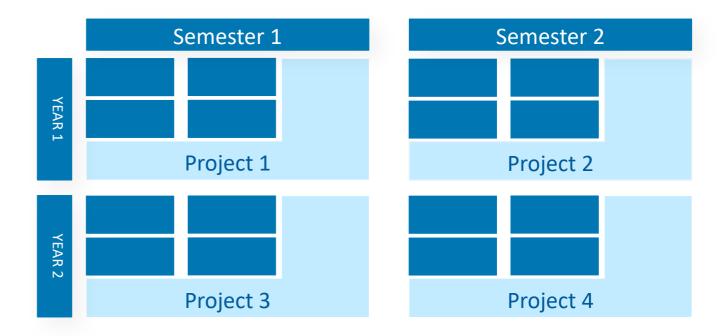
Research has shown that **group learning activities**, characterized by collaborative projects extending beyond a single lesson, **positively contribute to collaborative skill development** (De Hei et al., 2018)

To successfully support collaborative skill development, emphasis should be placed on the collaborative learning process, **guided by teachers who facilitate meaningful interactions** in a safe, inclusive learning environment (De Hei et al., 2020)



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- 4 Project courses (PBL)
- Learning goals on collaboration
- Learning activities to support collaboration:



Collaboration toolkit – set of questions (https://vu.nl/en/student/study-skills/self-help-kit-group-work)

Team collaboration contract

Workgroups about peer feedback, group dynamics, self-disclosure, reflection etc.

But....

while students acknowledge the importance of collaboration, they struggle to take ownership of the collaborative process and to deal with team issues or conflicts.

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How to solve this issue?

Teaching our students how to give peer feedback on behaviour

(O'Neill et al., 2019; Van Rompay-Bartels & Geessink, 2023)

But....

- Addressing behaviour requires more practice and personal insights than are currently supported in our program.
- This is especially important in the **international classroom**, in which cultural differences complicate interaction and collaboration (De Hei et al., 2020)
- However, this is time-consuming, and our teachers feel under-equipped to fulfill this role.

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The answer is in technology

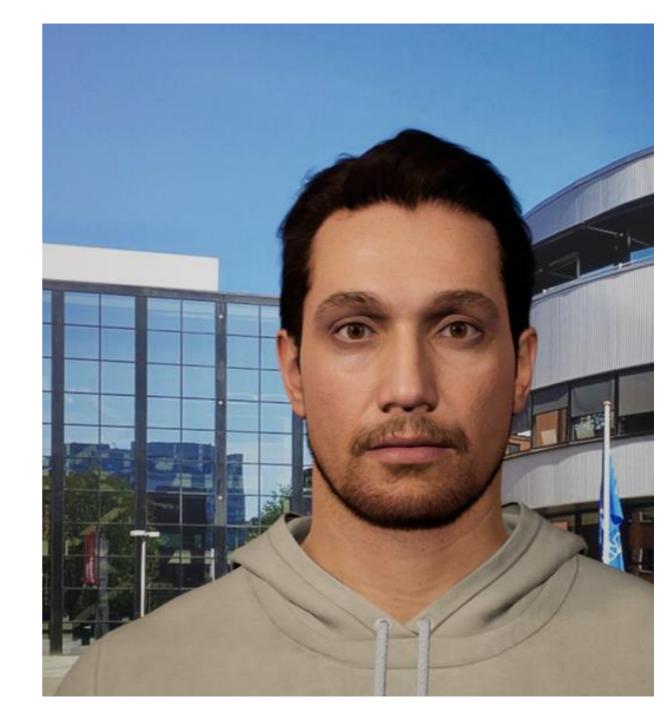
- The use of digital tools in education has proven to be effective in the development of skills
- Rise of AI can create greater learning experience

 customization and personalization in learning, tailored to the individual student
- Simulated skill-practice has been demonstrated to enhance quality of performance in real-life situations
- New developments in genAI pave the way for more complex and personalized interaction training



genAl powered avatar training

- We asked students about difficult situations in teamwork
- We will do focus-groups with students about cultural differences in feedback
- We will integrate practicing with the avatar in a more defined learning path on (intercultural) collaboration and communication in the project courses



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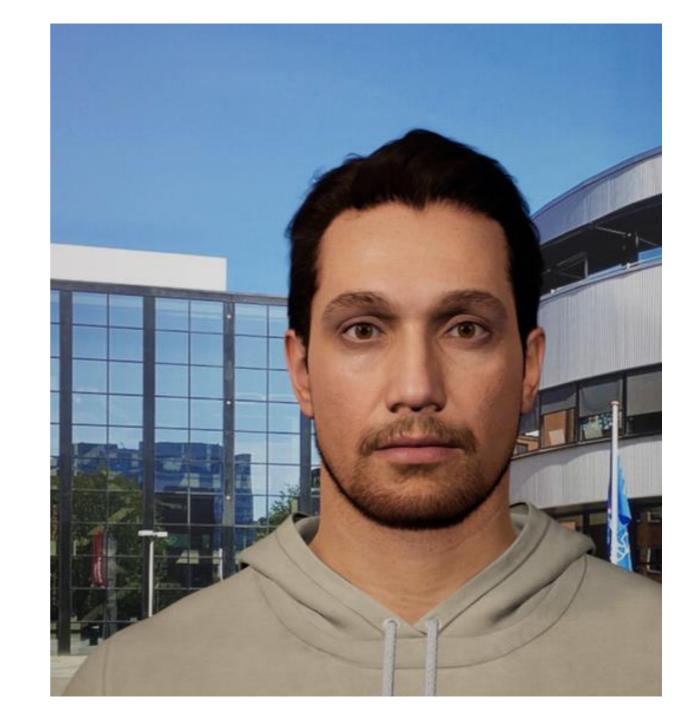
genAl powered avatar training



English



Dutch



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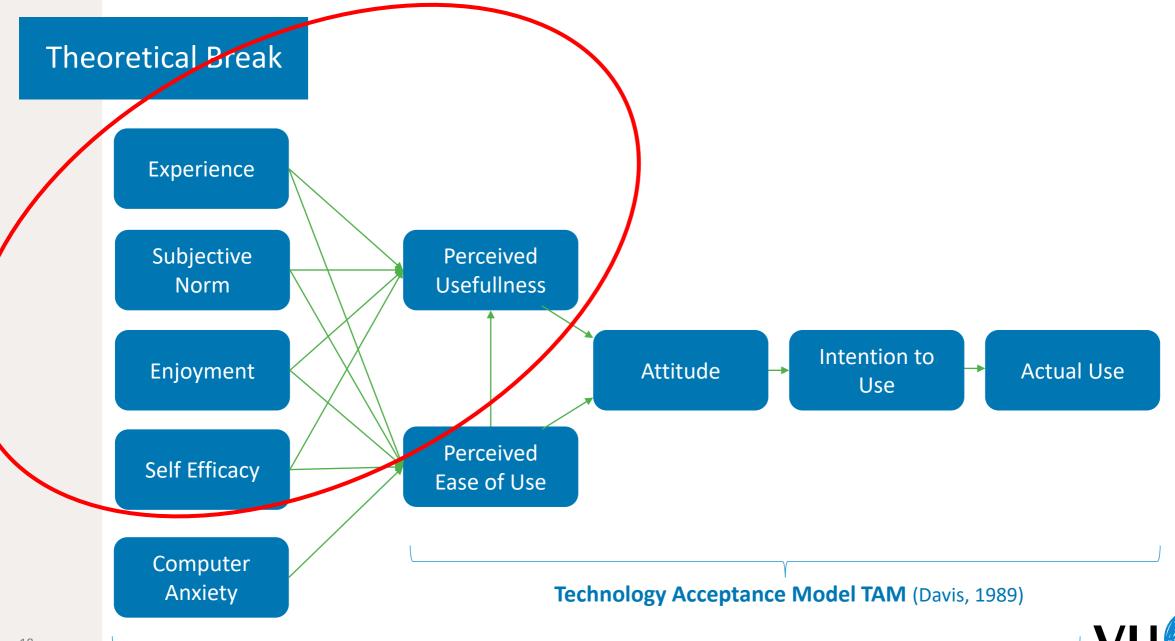


Quick question

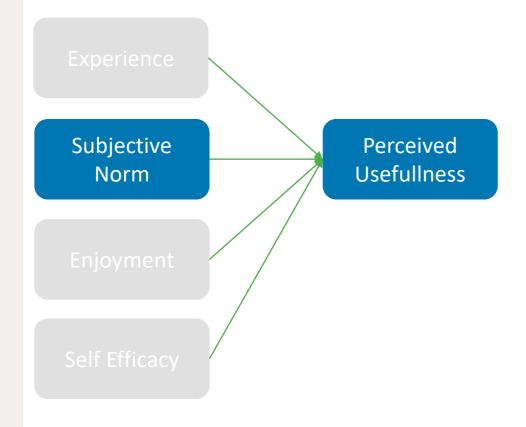
Callback to the menti question at the start of this presentation:

- What do you think influenced the way you filled it in?
- Do you think the way you did would have been different if we had asked you to do this at home in preparation for today?





Theoretical Break



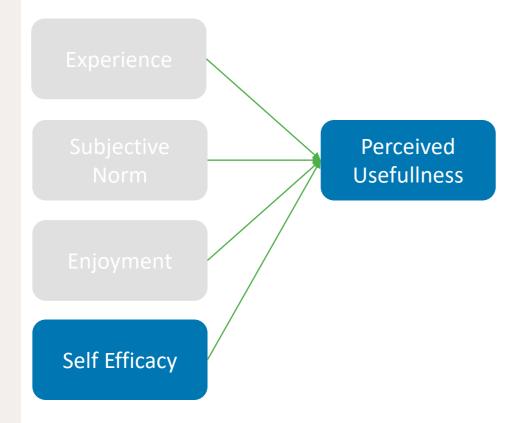
Subjective Norm:

"If a person perceives that people who are important to him/her/them (such as peers and teachers) think he/she/they should use an e-learning system, then the person will incorporate their beliefs into his/her/their own beliefs system, and consequently perceives the system more useful in its purpose"

(Abdullah & Ward, 2016)



Theoretical Break



Self Efficacy:

"one's belief about his/her/their ability to accomplish a particular task using a computer"

"students who have higher elearning Self-Efficacy are more likely to use e-learning"

(Abdullah & Ward, 2016)

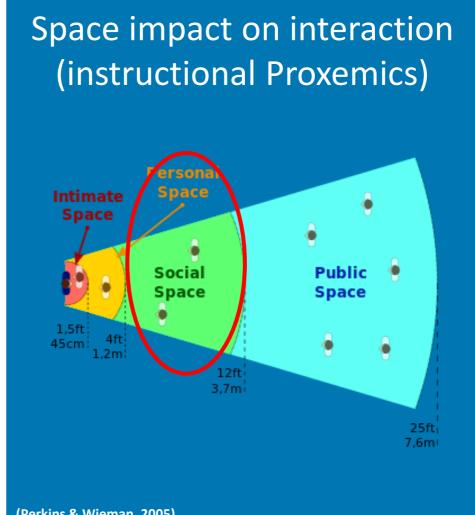


Importance of (physical) space within the technology acceptance process?

Physical Space

"Space creates expectations of behaviour, suggests how to act, and communicates what is valued"

Adam Finkelstein, Associate Director Learning **Environments, McGill University**





Case: introducing the avatar

We assume that by initiating the acceptance process offline:

- 1. We will be able to influence the **subjective norm** (by using the social space and the physical learning environment)
- 2. We will be able to enhance the perception of self-efficacy
- 3. We will make a start with **experiencing** the tool

This will lead to:

- higher acceptance of the use of the tool (higher perceived usefullness and perceived ease of use)
- a higher involvement in and development of giving and receiving peerfeedback

Conclusion: introducing the avatar

Properly introducing a digital tool in learning environment can lead to:

- 1. Higher student engagement/acceptance
- 2. Better developed peer feedback skills
- 3. Increased enjoyment of learning
- 4. Improved academic outcomes
- 5. Enhance job preparedness





Thank you for your attention. Questions?