Virtual reality for employability skills

Conference or Workshop Item


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Virtual Reality for Employability Skills

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20 July 2017

3D virtual environments and virtual reality

- Second Life
- Virtual Skiddaw: 3D geology field trips (Unity 3D)
- 360-degree videos in the browser
- Virtual reality viewers
Affordances

- 360-degree visual authenticity
- Emphasis and in-situ contextual information
- Single-user handling
- 360-degree navigation
- First-person perspective
- Synthesis
- 3D view
- Simulation
- Visualisation

3D virtual geology field trip – Virtual Skiddaw

3D virtual geology field trip, video: https://www.youtube.com/watch?v=zfbA1s9uRoU
## Other types of virtual reality

<table>
<thead>
<tr>
<th>VR in health care</th>
<th>360 degrees video in Chrome</th>
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<tbody>
<tr>
<td><strong>VR in health care</strong>&lt;br&gt;VR’s Healthcare Revolution: Transforming Medical Training at CHLA&lt;br&gt;Video: <a href="https://www.youtube.com/watch?v=4om8g0u9a4M">https://www.youtube.com/watch?v=4om8g0u9a4M</a></td>
<td><strong>360 degrees video in Chrome</strong>&lt;br&gt;Ocean: A 360-degree tour of the mysterious, magical corals of Palau&lt;br&gt;Video: <a href="https://www.youtube.com/watch?v=jvtFHPRcsY">https://www.youtube.com/watch?v=jvtFHPRcsY</a></td>
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## Employability

“...A set of capabilities and achievements that support students in developing their careers, raising their aspirations and enhancing their contribution to society...”

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*The Open University Student Employability Policy Statement*
Virtual reality and employability

- Awareness
- Workplace usage
- Learning and skills development

Virtual reality

- Design and prototyping
- Risk-assessment training
- Continuing Professional Development
- Emergency and natural disaster management training
- Treatment of depression, loneliness, dementia
- Awareness of virtual reality technologies
- Sensitising to environmental issues
- Interviewing; team-working skills
- Healthcare education; forensic science training
- Teaching
Experiencing the invisible

The virtual reality helped me because I could see for myself what was happening without having to imagine it.

Learning through simulations

The animation was very realistic; therefore, I could take more knowledge away from the lesson [...] these images can [...] help me explain about the respiratory system in a much larger amount of detail.
Local to global – and – global to local

“...It helped me to understand the Chilterns is an area of natural beauty compared to some places in the world. It helped me to feel more caring about the Chilterns.”

The future
Questions and comments

Project website:  
http://www.shaileyminoche.info/google-expeditions/; has links to blog-posts

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The links to websites in this presentation were last checked on 19 July 2017.