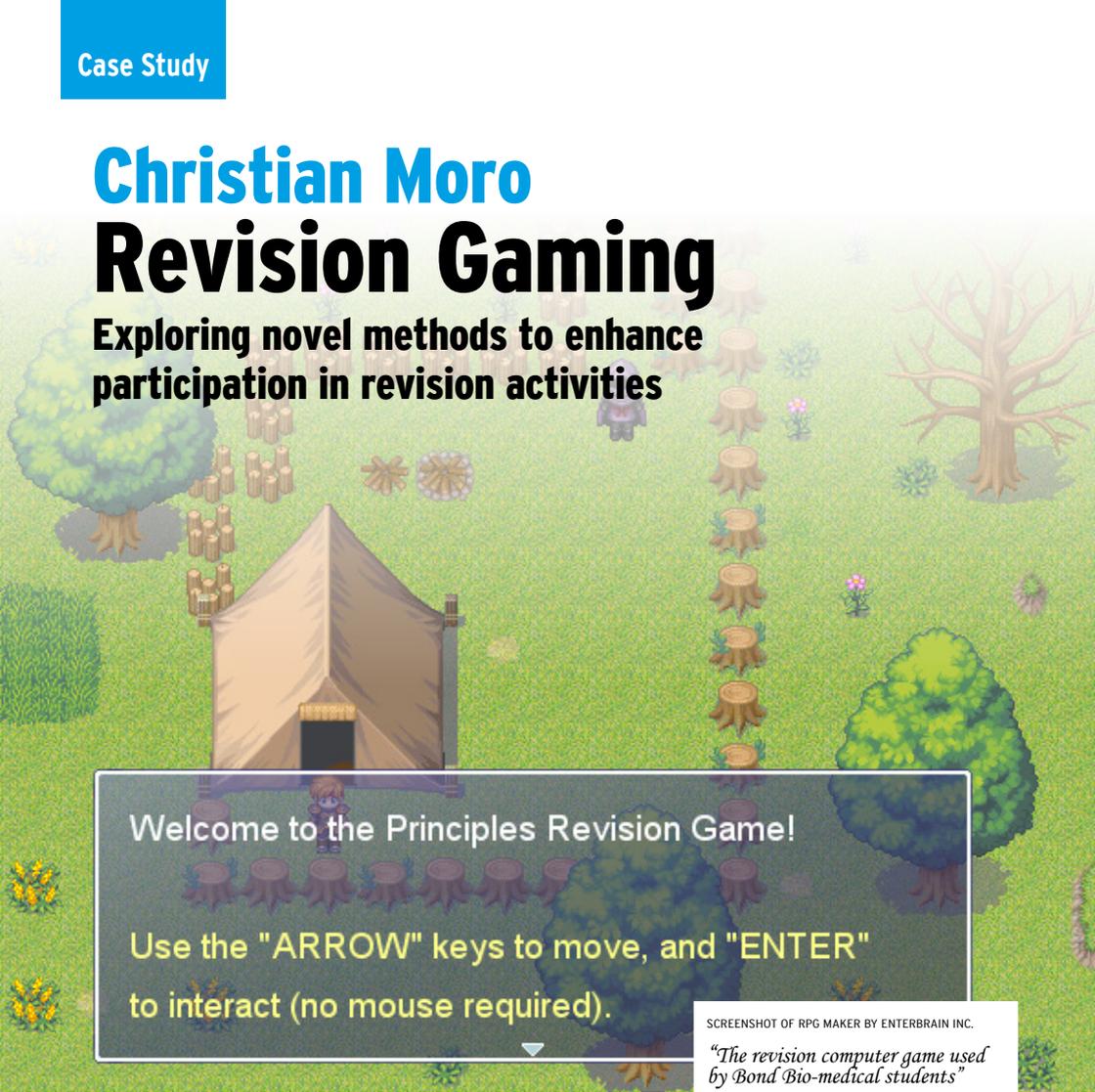


# Christian Moro

## Revision Gaming

Exploring novel methods to enhance participation in revision activities

A screenshot of a game interface. The background is a vibrant, cartoonish forest scene with a green tent in the center, a path of tree stumps, and various trees and flowers. A small character is visible near the tent. A semi-transparent text box is overlaid on the bottom half of the image.

Welcome to the Principles Revision Game!

Use the "ARROW" keys to move, and "ENTER" to interact (no mouse required).

SCREENSHOT OF RPG MAKER BY ENTERBRAIN INC.

*"The revision computer game used by Bond Bio-medical students"*

**F**or some students, the concept of "revision" tends to be associated with the last-minute rush to get through a course's content before an examination or assessment. However, optimal revision occurs continually throughout the semester, with great benefits to learning and comprehension when students revisit course content each week. Dr Christian Moro decided to draw from

an existing bank of questions and other resources (past exams, etc.) to provide a revision opportunity for students to use each week, in order to gauge their current understanding. By completing regular revision activities students can identify any misconceptions or difficult concepts immediately, rather than closer to the end of the semester.

However, encouraging students to work through revision questions weekly, rather than just storing them for later use, proved quite tricky. To enhance participation in these exercises, Christian created computer game using RPG maker software, where the students could engage in a fictional game world adventure.

As students progress through the storyline, characters have a range of questions to ask our "hero". Students are encouraged to use their advanced knowledge of science to weaken enemies in the game. For example, attacking bosses in weak spots is more effective. One boss in particular has a weak "pseudostratified columnar epithelium" and using this information students must determine where to strike the boss to inflict the most damage.

Revision Gaming illustrates how technology can be used to enhance participation and interaction in revision activities within the semester. Students really seem to enjoy the variety, and packaging

## Fast Facts:

- **Faculty** - Health Science and Medicine
- **Subjects** - Biomedical Sciences
- **Level** - Undergraduate
- **Staff** - Dr Christian Moro
- **What's Unique** - Making revision more engaging through gaming.

▼ **Top Right:** *The Boss Battle screen*

▼ **Bottom Right:** *Biomedical questions*

◀ **Bottom Left:** *Don's Tavern*



questions and revision activities into games or other interactive modes is definitely one way that technology can augment how students learn throughout our courses. ■

To download and play an edited trial version of Christian's Revision Game scan the QR barcode below:



**Christian** is a lecturer in Biomedical Sciences and Medicine at Bond University. Born and bred on the Gold Coast, he worked as a Senior Science teacher both locally and in London. Christian has completed a Bachelor of Science (Biochemistry), and a Bachelor of Education (Chem, Bio) at the University of Queensland. He also completed a Master of Business (Applied Finance) at the University of Southern Queensland. Christian completed his PhD in Biomedical Sciences at Bond University.

Christian's research investigates the physiology associated with diseases of the urinary bladder, and also undertakes educational research, revolving around maximising the provision of hands-on activities coupled with online content to assist university students to make the most of their learning and course engagement. He has worked in scientific research at the University of Queensland and is a current member of the Bond Centre for Urology Research, with an aim to finally understand the mechanisms underlying bladder dysfunction.

- ▼ **Top:** *The Bond University level, featuring the Arch Building, Fountain of Knowledge and a mythical angel who will grant a wish... if you can answer a question from the course.*
- ▼ **Bottom:** *This vampire has a weakness in his "occipital lobe"*

