

## ***Department of Computing, Faculty of Science***

### ***Potential Psychology Honours Supervisors***

#### **Dr Deborah Richards**

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#### **Topics in Social Psychology and Personality, including**

- emotions and emotion appraisal
- companion agents
- collaboration in virtual worlds

#### **Topics in Cognitive Psychology, including**

- modelling complex human cognition and decision making in intelligent virtual agents
- autobiographical memory and collective memory in intelligent virtual agents
- episodic memory in intelligent agents
- computational models of memory
- forgetting and recall in intelligent virtual agents

#### **Topics in Organisational Psychology, including**

- computer-based training
- intelligent systems
- intelligent virtual agents

#### **Topics in the applications of Learning, including**

- pedagogical agents
- multi-user virtual environments

#### **Topics in Psychobiology, including**

- simulating predator - prey behaviour
- simulating flocking
- modelling animal behaviours

#### **Dr Michael Hitchens**

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#### **Topics in Social Psychology and Personality, including**

- engagement and immersion in virtual worlds/digital games
- avatar identification in virtual worlds/digital games
- personality based variations in the use of virtual worlds/digital games

#### **Topics in Psychological Health, Pathology and Change, including**

- Risk factors in virtual world/digital game use

#### **Topics in Cognitive Psychology, including**

- emotional effects of virtual worlds/digital games
- cognitive processes in virtual world/digital game use

#### **Topics in Perception, including**

- Perception in virtual worlds/digital games