

## Horizon CDT PhD Candidate

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## Year 1 Supervisor

Ayse Kucukyilmaz <sup>1</sup>

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### About Me Victor Ngo



#### Research Interests:

Human-Robot Interaction (HRI), Dynamic Artificial Intelligence, **Variable Autonomy**, Shared Control

#### Previous Study:

- BSc Computer Science, Nottingham Trent University, UK
- MSc Computer Science with Artificial Intelligence (AI), University of Nottingham, UK

#### Past Work:

- Conflict Awareness in Human-Robot Collaboration for the Variable Autonomy of Mobile Robots
- Investigation and development of a system that used human gaze data as a method for evaluating a human operator's cognitive availability while operating a mobile robot.

### Year 1 Supervisor Dr Ayse Kucukyilmaz



#### Assistant Professor

University of Nottingham,  
Robotics and Autonomous Systems

#### Specialisation

**Haptics**, physical human-robot collaboration (**pHRI**), shared and traded control, adjustable human-autonomy teamwork

### Industry Partner Makers of Imaginary Worlds – MoIW

Founder & Artistic Director

**Dr Roma Patel**

[roma@makersofimaginaryworlds.co.uk](mailto:roma@makersofimaginaryworlds.co.uk)

Co-Founder & Co-Artistic Director

**Rachel Clementine**

[rachel@makersofimaginaryworlds.co.uk](mailto:rachel@makersofimaginaryworlds.co.uk)

Makers of Imaginary Worlds is a Nottingham-based company that designs and makes **immersive experiences**, sensory **performances**, installations, and storytelling spaces of children aged 0-10 years.



<https://makersofimaginaryworlds.co.uk/>

### PhD Topic

The use of Artificial Intelligence and Robotics in Live Creative Installations.

#### Project Aims & Motivations

- Create a collaborative system/tool/process that enables artists to easily use or integrate AI and Robotics in their installations.
- Produce immersive and interactive experiences for younger audiences, and curating curiosity throughout all age groups.
- Encourage education in younger audiences in emerging technologies.
- Investigate and develop computer sensing solutions to evaluate human behaviours, and how these might benefit robotic AI systems in their ability to perceive, interact and respond to audiences. (Autonomous evaluation of audience engagement, boredom, interest, excitement)