TAS Showcase
5th – 6th March 2024

TAS Artists in Residence

www.tas.ac.uk
Dr Alan Chamberlain

Creative Industries
Sector Lead
Albino Mosquito
Exploring *depictions of Autonomous Vehicles* in media and interviews with researchers. Informing the content of an adaptive narrative system, which enabled people to explore the notion of trust. The audience answer sensitizing questions which then generates a unique short story.

**Climate Workshops**

Using *Generative AI* to envision climate futures and engage in conversations with members of the public, then used as inspiration for an adaptive VR experience.
Identity and AI

Emotional AI

Using AI emotion detection to adapt a movie to its audience.
Makers of Imaginary Worlds
Dancing with Machines: Aesthetic interactions with an autonomous system

To understand how children give meaning to their communication with NED, we set up a pilot study at Broadway Gallery in Nottingham.

Most children categorise robots into two main areas a helper that does things for them and a machine that moves, that can look like a human, is made from metal, and can be programmed.

Drawings from children in the 1970s book *Robots: Fact Fiction, and Prediction,* (Jasia Reichardt) and drawing from children in our workshop in 2022 are remarkably similar.

We need to do more to educate children and bring them in contact with current robots.
Future potential for cross disciplinary research in the interrelationship and interconnectedness between children, dance and robots.

Our work and research explores an imaginative interpretation of the industrial robotic arm to make it into a playful kinetic sculpture that becomes something unexpected, which performs and encourages its users to communicate, dance and play.

We found dance as a medium to explore embodied, relational meaning-making and movement with the robot as a dance partner can promote innovation in the Arts, support children's play activities and enhancing technological access for children.

The potential of robots as imaginative embodied kinetic sculptures that can create novel, fun, and empowering experiences.
GROUPTHINK is a participatory artwork that anticipates the Internet of Neurons - an era when humans and computers interact through sensory prostheses. The project

- Developed new methods of remote interaction between performers and live audiences
- Examined the psychological states associated with mass connectivity via human-machine interface (HMI)
- Recruited AI as a creative partner in an HMI-integrated network
Remote audiences participated in GROUPTHINK via a custom hemodynamic monitoring application accessed through an ordinary web browser.
AI-generated visuals responded to audience excitement as measured by the collective heart rate.
Rachel Jacobs
Will Autonomous Systems Help Us When the Future Comes?

Future Machine will appear across 5 places in England, at the same time every year until 2050 in Finsbury Park in London, Cannington Village in Somerset, Windermere waters in Cumbria, Rotherfield Peppard in Oxfordshire and Christ Church Gardens in Nottingham as a witness to social, cultural and environmental changes. Exploring how we make myths & designing technology for a responsible future. [www.whenthefuturecomes.net](http://www.whenthefuturecomes.net)
The Museum of the Mirrored Self displays a series of four prototype interactive mirrors. Each of these artifacts take us on a journey through the history of mirrors, raising questions about trust in response to recent developments in interactive mirror technology. The Museum of the Mirrored Self has been developed alongside the TAS for Health Project. - https://www.i-am-ai.net/mirroredself/

Dr Rachel Jacobs, Independent Artist, When the Future Comes Collective