**Research focus:** Multimodal Reinforcement Learning for Autonomous Medical Agents for Complex and High Precision procedures.

**Research description:** Research focused on the integration of diverse data modalities such as visual, sensory, and textual information to enhance the decision-making capabilities of embodied autonomous agents in dynamic clinical environments.

**Modalities under consideration:**

1. Visual (High-resolution imaging, MRI and Infrared imaging)
2. Haptic (Force feedback, texture and vibration)
3. Auditory (Ultrasonic feedback)
4. Electromagnetic sensing.

**Research questions:**

1. Multimodal data fusion.

2. HCI between professionals and agents.

3. Limitations of MMRL frameworks in handling noisy, high-dimensional data.