Our major areas of research currently include:

- Analysis of ultrasound “channel data” to enhance disease detection and assessment
- Use of multi-modality imaging and AI for earlier and better diagnosis of diseases
- AI for conversion between imaging modalities (e.g., using deep learning to convert US images to CT synthetically)
- Sensors for health monitoring
- AI-guided ultrasound image acquisition with the goal of overcoming operator-dependency
- Use of AI for Covid-19 diagnosis and prediction of outcome
- Deep learning and contrast agents for super-resolution vascular ultrasound imaging
- Lung ultrasound

SAMPL Clinical is the arm of SAMPL Lab at the Weizmann Institute of Science responsible for research collaborations with the medical community.