



Professor Daniel Ahmed

«Teaching is one of the most rewarding experiences in academia. It's my goal to motivate, inspire and guide students so they become future innovators.»

Acoustic Robotics Systems Lab

Institute of Robotics and Intelligent Systems

Our vision is to create innovative acoustic robots and manipulation systems for applications in biomedical engineering and translational medicine. We are the leading lab in Switzerland in developing ultrasound-based robotic systems. In the future, acoustic micro and nanorobotics will have a significant impact on cancer and brain research, as well as on vasculature biology. These novel technologies will help improve the understanding of diseases and be used in the development of new treatments.

Focus

- Acoustic-based micro and nanorobotics
- Ultrasound manipulation systems
- Acoustofluidics and bubble dynamics
- Healthcare and diagnostics

Tools and methods

- Ultrasound-based manipulation systems
- High-speed imaging capabilities
- Micro and milli-fluidic devices
- Inverted microscopy

Further details online:

www.arsl.ethz.ch

