



Master Thesis (6M)

In collaboration with Waveye

Thesis title	Synthetic Aperture Radar (SAR) for robotics applications
Thesis description	The focus of this master's thesis is the development of novel signal processing algorithms for Synthetic Aperture Radar (SAR). This includes generating datasets, training deep neural networks, and implementing advanced signal processing algorithms. The developed algorithms will be deployed on radars embedded in robotic platforms such as humanoids or AMR's.
Qualifications	<ul style="list-style-type: none">• Strong background in machine learning, radar signal processing, and robotics• Structured, analytical thinking and a strong mathematical background• Experience with Python, MATLAB, and ROS / ROS 2• Ability to write clean, maintainable, and well-documented code
Begin	According to agreement
Duration	6M for Master thesis
Language	English
Supervisor	Waveye + ISS

Please contact Prof. Bin Yang (bin.yang@iss.uni-stuttgart.de) by email together with your Master transcript.

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