Name: Timo Korthals, M.Sc.

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**Literature:** https://bit.ly/2pKpJ6q



Interests Learning to Act on Multi-Modal Data My work tackles

the development of multi-modal deep generative models to learn multi-sensory fusion. In the context of artificial intelligence, my approach contributes to unsupervised curiosity-driven learning of active sensing for a robot fleet equipped with visual, depth, and tactile sensors (Ph.D. due date 06/20).

Skills embedded and high-level programming in C/C++, Python, Ten-

sorflow, curiosity driven / reinforcement / unsupervised / deep / machine learning, information fusion, robotics, ROS, Matlab

## **Academic Career**

11/18 - today	<b>BMBF Project</b> ML4Pro <sup>2</sup> Machine Learning for Production and Products at the Center of Excellence - Cognitive Interaction Technologies (CITEC) Institute, Bielefeld University
01/17 - 12/19	<b>DAAD PPP Grant</b> for joint project <i>Learning to act on Multi-Modal Data</i> in collaboration with Queensland University of Technology
02/15	ERASMUS+ Lecturer at Aarhus University
07/14 - 10/17	<b>BMBF Project</b> in the Leading Edge Cluster for Cyber-Physical Systems for Electronic Environment Detection and Mapping in Agriculture Scenarios (CITEC)
09/13 - $12/18$	<b>DFG Project</b> for Mini Robot Developement (CITEC)
09/13 - 06/14	<b>PhD Scholarship Holder</b> for Mini Robot Developement (CITEC)

## Education

03/12 - 06/13	Electrical Engineering Master - University of Paderborn
	Topic: Unsupervised Learning of Acoustic- and Word-Units via
	Hierarchical, Generative Models

03/10 - 08/10 **Peking/China**, Beihang University of Aeronautics & Astronautics

08/07 - 03/12 Electrical Engineering Bachelor - University of Paderborn Topic: Evaluation of Algorithms for Creating Disparity Maps on the Basis of Monucalur Video Streams

## Competitions