Moritz Reuss

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Education

Ph.D. in Computer Science about Robot Learning

KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT)

· advised by Prof. Rudolf Lioutikov

· Research on skill-based imitation learning for robot agents

Master of Science in Mechanical Engineering

KARLSRUHE INSTITUT OF TECHNOLOGY (KIT), FINAL GRADE: 1.2

Master Thesis about Hybrid Models for Inverse Dynamics of Robot Manipulators (Grade: 1.0)

· Specialization in autonomous systems and robotics

Exchange Semester

CHALMERS UNIVERSITY OF TECHNOLOGY

· Courses in Machine Learning, Robotics and Control

Bachelor of Science in Mechanical Engineering

KARLSRUHE INSTITUT OF TECHNOLOGY, FINAL GRADE: 2.0

• Focus on mechatronic sytstems and control

GERMAN SCHOOL OF BARCELONA, FINAL GRADE: 1.2

• Graduated as top of the year

01/2022 - PRESENT

Karlsruhe, Germany

Karlsruhe, Germany

04/2019 - 10/2021

Gothenburg, Sweden

08/2020 - 02/2021

Karlsruhe, Germany

10/2015 - 03/2019

Barcelona, Spain

12/2012 - 06/2015

Experience _____

German A-levels

Bosch Coorporate Research

EXTERNAL MASTER THESIS

• Research in hybrid model for inverse dynamics prediction of a 7 Degree-of-Freedom robot arm

Research Assistant in Machine Learning

RESEARCH CENTER FOR INFORMATION TECHNOLOGY (FZI)

Working Student in Vehicle Simulations

· Research in using energy-consumption models using recurrent neural network architectures for electric vehicles • Development a Python framework for data extraction and preprocessing of road information

IPG-AUTOMOTIVE GMBH

• Evaluation and Implementation of hybrid car architectures in driving simulators

Engineering Intern and subsequent Bachelor Thesis

AUDI AG

· Research on humidity prediction models for control of dynamics fuel cell systems

Renningen, Germany

04/2021 - 09/2021

Karlsruhe, Germany

05/2019 - 02/2021

Karlsruhe, Germany

10/2016 - 03/2018 and 03/2019 - 11/2019

Neckarsulm, Germany

April. 2018 - Feb. 2019

Publications _____

Goal-conditioned Imitation Learning with Score-based Diffusion Policies

MORITZ REUSS, MAXIMILIAN LI, XIAOGANG JIA, RUDOLF LIOUTIKOV

Robotics, Science and Systems (RSS)

End-to-End Learning of Hybrid Inverse Dynamics Models for Precise and Compliant **Motion Tracking**

Robotics, Science and Systems (RSS)

MORITZ REUSS, NIELS VAN DUIJKEREN, ROBERT KRUG, PHILIPP BECKER, VAISAKH SHAJ, GERHARD NEUMANN