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»» Keen to develop the next level of Explainable Machine Learning techniques.

»» WORK EXPERIENCE

Post-doctoral Researcher

09/2022 – now

National Institute of Informatics (NII), Tokyo, Japan

- » Fellow of Prendinger Lab, vision architectures for drones
- » Explainable Machine Learning for Computer Vision
- » Interactive Object Detection in difficult conditions

Scientific Employee

07/2019 – 06/2022

Bielefeld University, Cluster of Excellence Cognitive Interactive Technology (CITEC)

- » Staff member of Research Institute for Cognition and Robotics
- » Implementation of service robot demo scenarios
- » Explainable Object Detection

Researcher and External PhD student

10/2016 – 06/2019

Honda Research Institute Europe GmbH, Offenbach am Main

- » Development of human-aware active and incremental Machine Learning approaches
- » Development of learning user interfaces
- » Teaching assistance for lecture *Vision in Human and Machine*

Paid Intern / Thesis Student

07/2015 – 01/2016

CLAAS KGaA mbH, Harsewinkel

- » Master Thesis within the innovation project *Electronic Environment Recognition with Combine Harvesters*
- » Vision-based detection of anomalies in grain fields
- » Evaluation of segmentation and classification approaches
- » Acquisition of training data within field tests

Freelancer in software development (part time)

03/2015 – 10/2019

Bielefeld/Offenbach am Main

- » Development of web-based management systems

»» EDUCATION

PhD

10/2016 – 12/2021

Bielefeld University, Cluster of Excellence Cognitive Interactive Technology (CITEC)

In cooperation with Honda Research Institute Europe GmbH, Offenbach am Main

- » Defended at Bielefeld University in 12/2021 with grade *Magna cum Laude*
- » Dissertation Title: Competence Modeling for Human-Robot Cooperation

M.Sc. in Intelligent Systems

10/2013 – 02/2016

Bielefeld University

- » Focus: Robotics, Image Processing and Machine Learning
- » Thesis: *Development of an image processing system for camera-based classification of grain fields using machine learning*
- » Implementation of interactive Human-Robot Cooperation demo with NAO
- » RoboCup@Home German Open 2015 and Worldcup 2015 in Hefei, China - both 3rd place

B.Sc. in Cognitive Informatics

10/2010 – 10/2013

Bielefeld University

- » Thesis: *Development of a rapid-prototyping software for constructing environments in VR*
- » Teaching Assistance for lectures *Digital Communication and Internet Services, Operating Systems, Computer Architecture*

Abitur (German Highschool Diploma)

06/2010

Hermann-Vöchting-Gymnasium, Blomberg

»» SKILLS

Core Competencies:

- » Programming and debugging in Python
- » Data Science libraries (NumPy/SciPy, Pandas, Matplotlib, OpenCV)
- » Machine Learning frameworks (Torch, SkLearn, TensorFlow, Keras)
- » Linux (administration and development)

Other Skills:

- » C/C++, Matlab, Java
- » Web-based languages (HTML, CSS, JavaScript, PHP, MySQL, Flask)
- » Robot Operating System (ROS)
- » Project management (GIT, SVN, Redmine, Slack)
- » Other tools (L^AT_EX, MS-Office, Blender, GIMP, Inkscape, OpenSCAD)

»» LANGUAGE SKILLS

German: Native language

English: Business fluent

French: Basic knowledge

Japanese: Basic knowledge

»» INTERESTS

Professional Interests:

- » Machine Learning
- » Robotics and Drones
- » Computer Vision and Image Processing
- » Explainable AI

Personal Interests:

- » 🛠️ Electronics
- » 🖨️ 3D Printing
- » 🎸 Playing the guitar and producing music
- » 🏞️ Hiking

