Email: jonathan.hellwig@protonmail.com

Jonathan Hellwig

Location: Hamburg, Germany Website: jonathan-hellwig.github.io

PROFILE

As an industrial mathematics graduate with a deep interest in robotics and machine learning, I am eager to work and innovate on real-world systems. My experiences indicate my motivation to explore new areas of study and apply my mathematical background to them.

SKILLS

Machine learning with PyTorch

Image classification, object detection and reinforcement learning

Optimization on real-world systems

Iterative closest line algorithms for noisy line detections in image data

Sensor fusion

Processing of measurements from multiple sensors in a real-time system

TECHNICAL

EDUCATION

Languages Python, Rust, R

EXPERIENCE Member of Robocup SPL team HULKs

HULKs e.V. Localization, object detection, sensor fusion Participation in the RoboCup 2021, Thailand

Group tutor for Numerical methods in geosciences

University of Hamburg

Research assistant for Prof. Dr. Jörn Behrens

University of Hamburg Shallow water wave simulation

Internship at actuarial department

SIGNAL IDUNA

Estimation of loss reserves

Group tutor for Optimization

University of Lübeck

Group tutor for Linear Algebra

University of Lübeck

Industrial mathematics (M.Sc.)

University of Hamburg

Thesis topic: Relations between variants of stochastic gradient descent and

stochastic differential equations Advisor: Dr. Jens-Peter Zemke

Average grade: 1.3

Computational Life Science (B.Sc.)

Universität zu Lübeck

Award for best graduate 2019

Thesis topic: Multilevel Monte Carlo simulations

Advisor: Prof. Dr. Andreas Rößler

Average grade: 1.3

Jun 2021 - Present

Hamburg, Germany

Apr 2022 - Sep 2022

Hamburg, Germany

Jan 2022 - Jun 2022

Hamburg, Germany

Feb 2021

Hamburg, Germany

Apr 2019 - Sep 2019

Lübeck, Germany

Oct 2017 - Sep 2019

Lübeck, Germany

Oct 2020 - Feb 2023

Hamburg, Germany

Oct 2016 - Sep 2019

Lübeck, Germany