Jonathan Hellwig

Hamburg, Germany jonathan-hellwig.github.io

PROFILE

As an industrial mathematics graduate of with a deep interest in robotics and machine learning, I am eager to work and innovate on real-world systems. My past experiences demonstrate my enthusiasm to embrace new topics applying my mathematical background.

SKILLS

Machine learning with PyTorch

Image classification, object detection and reinforcement learning

Optimization on real-world systemsCalculation of optimal transformation of noisy image detection lines

TECHNICAL

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

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

EDUCATION

Industrial mathematics (M.Sc.)

University of Hamburg

Thesis topic: Relations between variants of stochatic gradient descent and

stochastic differential equations

Average grade: 1.3

Computational Life Science (B.Sc.)

Universität zu Lübeck

Award for best graduate 2019

Thesis topic: Multilevel Monte Carlo methods for stochastic differential equations Average grade: 1.3

Sensor fusionProcessing of noisy measurements

in a real-time system

Jun 2021 - Present

Hamburg, Germany

Jan **2022** - Jun **2022**

Hamburg, Germany

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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