

BENJAMIN WILHELM

Computer Scientist

<https://bwilhelm.net> | GitHub: HedehogCode

INTERESTS

Computer Vision and Image Analysis
Deep learning

WORK EXPERIENCE

Software Developer, KNIME GmbH (Konstanz, Germany) March 2022 - Present
Building a new fast and powerful Python integration based on Apache Arrow and Py4J

Working Student, KNIME GmbH (Konstanz, Germany) March 2018 - Feb 2022
Worked on multiple KNIME integrations, especially the TensorFlow, Deep Learning, Tableau, Power BI, and Python Integration
Worked on the new columnar table backend based on Apache Arrow
Programmed mainly in Java and Python
Contributed to open-source projects
Other software development tasks

Intern, Max Plank Institute of Molecular Cell Biology and Genetics (Dresden, Germany) Sep 2017 - Feb 2018
Integrate TensorFlow in ImageJ/Fiji
Integrate TensorFlow in KNIME
Contribution to the CSBDeep/CARE paper by making it run in Fiji and KNIME
Minor programming tasks in Java, like a tiled execution for KNIME Image Processing

Research assistant, University of Konstanz (Konstanz, Germany) Oct 2015 - Aug 2017
Programming in Java
Building a cluster executor for KNIME

EDUCATION

M.S. in Computer and Information Science, University of Konstanz (Konstanz, Germany) Oct 2019 - Feb 2022
Focus on computer vision and machine learning
Image Analysis and Computer Vision I and II
Seminar about Recent Developments in Deep Learning
Master's thesis about image reconstruction with a GAN Gaussian denoiser
Overall grade "very good with distinction"

B.S. in Computer Science, University of Konstanz (Konstanz, Germany) Oct 2014 - Oct 2019
All basic courses
Mechanics in Physics and Mathematical Logic
Specialization in Data Mining and Computer Vision
Ranked 7th in the Freesound General-Purpose Audio Tagging Challenge on Kaggle as part of the Lecture "Advanced Data Challenge"
Seminar about Energy Minimization Methods in Computer Vision
Bachelor's thesis about the segmentation of microscope image data
Overall grade "with distinction"
Received the VEUK Award ("Preis des Vereins der Ehemaligen der Universität Konstanz (VEUK e.V.)")

High-school diploma, Erich-Hauser-Gewerbeschule (Rottweil, Germany) Sep 2011 - Jul 2014
High-school with focus in Computer Science

SKILLS

Very familiar with
Java, Python, Git, Linux, Apache Arrow, TensorFlow, Eclipse, Scrum

Familiar with

MATLAB, C, C++, JavaScript, Bash, LaTeX, Travis CI, Jenkins