



# CLAUS HOFMANN

Vienna, Austria

 [Claus Hofmann](#)  [claushofmann](#)  [claus-hofmann.com](#)

## EDUCATION

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### University of Vienna

10 2018 – 11 2020

*M.Sc. Computer Science - Data Science - GPA - 1.14*

*Vienna, Austria*

- Received appreciation award by the Austrian Federal Ministry of Science and Education as one of the best 50 M.Sc. graduates in Austria across all disciplines
- Participated in the "Naturtalente" high potential program of the University of Vienna

### University of Vienna

10 2015 – 09 2018

*B.Sc. Computer Science - Data Science - GPA - 1.20*

*Vienna, Austria*

- Received "Best of the Best Award" from the Faculty of Computer Science for being top 2 among a cohort of 600 students

## SCIENTIFIC INTERESTS

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- Machine Learning
- Geometric Deep Learning
- Computer Vision
- Deep Learning
- Un-/Self-Supervised Learning
- Reinforcement Learning

## PRIOR ACADEMIC AND PERSONAL PROJECTS

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### Recurrent Neural Networks for Particle Tracking | Master's Thesis

08 2020

- Collaborated with researchers from CERN
- Adapted deep learning-based tracking approach from the CV realm to the task of particle tracking
- Implementation done with TensorFlow / Keras


### Generative Adversarial Networks for Creating Game Art | Personal

04 2021

- Implemented a progressively growing GAN (Paper ) in PyTorch
- Applied it to screenshots of the game "Destiny 2"

### Deep Q-Learning for Breakout | Personal

05 2021

- Reimplemented this classic paper  of ML research with my own implementation in PyTorch
- The model was trained on a simple version of the game that was implemented from scratch specifically for this project

## Professional Experience

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### EnliteAI

05 2021 – NOW

*Computer Vision Engineer*

*Vienna, Austria*

- Working on Detekt, a platform for applying AI to geospatial data
- Incorporated models for segmentation and classification of road damages, road markings and road signs to the platform
- Designed and implemented an algorithm for the fusion and georeferencing of detections of identical objects in multiple images

### University of Vienna

09 2018 – 08 2020

*Teaching Assistant*

*Vienna, Austria*

- Responsible for the course "Foundations of Data Analysis" with approximately 100 students per semester
- Presenting coding tutorials during the lecture
- Creating and grading coding- and theory assignments

### Bearing Point

07 2018 – 08 2018

*Software Engineering Internship*

*Vienna, Austria*

- Collaborating on a software project with a focus on big data

### rmData Geospatial

08 2017 – 09 2017

*Software Engineering Internship*

*Pinkafeld, Austria*

- Working on a software project for a large Austrian telecommunications provider

## SKILLS

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**Technologies:** PyTorch, TensorFlow, Keras, Python, Java, C++, C, Swift, Javascript, SQL, Apache Spark

**Languages:** English, German, French